

Athena SWAN Silver department award application

Name of university: University College London (UCL)

Department: Computer Science

Date of application: 7 December, 2015 (upgrade)

Athena SWAN process: pre-May 2015

Date of university Bronze and Silver Athena SWAN awards: Bronze - 2006, 2009,

2012; Silver – 2015.

Date of departmental Bronze Athena SWAN award: 2012

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Athena SWAN **Silver Department** awards recognise that in addition to university-wide policies the department is working to promote gender equality and to address challenges particular to the discipline.

Please note:

1. ECU has approved the following changes to the maximum word counts in Sections 3 and 4; the overall word count remains the same:

Section 3 changed from 2,000 to 2,700

Section 4 changed from 5000 to 4,300.

2. UCL data reporting runs from 1^{st.} October to 30^{th.} September each year and the central data are not published in time for the November submission. Therefore in our application, we have presented data up to 2014/15. The SAT will be analysing and acting on the 2015/16 data when they are available.

List of abbreviations:

AS Athena SWAN

BCS British Computer Society
CAS Computing at School
CS Computer Science

EAB External Advisory Board

FES Faculty of Engineering Sciences

HoD Head of Department HoG Heads of Research Group

HR Human Resource

IEP Integrated Engineering Programme

PG, PGR, PGT Postgraduate, Post graduate Research, Post graduate Taught STEMM Science, technology, Engineering, Mathematics and Medicine

UCLWE UCL Student Society of Women Engineers

UG Undergraduate

1. Letter of endorsement from the head of department: maximum 500 words (484)

An accompanying letter of endorsement from the head of department should explain how the SWAN action plan and activities in the department contribute to the overall department strategy and academic mission.

The letter is an opportunity for the head of department to confirm their support for the application and to endorse and commend any women and STEMM activities that have made a significant contribution to the achievement of the departmental mission.

UCL DEPARTMENT OF COMPUTER SCIENCE

John Shawe-Taylor
Professor of Computational Statistics and Machine Learning
HEAD OF DEPARTMENT



Athena SWAN manager, Equality Challenge Unit, 7^{th.} Floor, Queens House 55/56, Lincoln's Inn Fields, London, WC2A 3LJ

7 December, 2015

Dear Sir/Madam:

I offer my wholehearted support for the UCL Computer Science submission for an Athena SWAN Silver Award. CS as a discipline has struggled with gender inequality in many parts of the world not least in the UK. This is the result of quite complex associations and messages that are sometimes difficult to unravel, but the result has been an enormous loss of talent to the subject. Our goals in the SAT have been to better understand and provide solutions to these problems. My personal involvement in the process has been extremely gratifying and I am proud of the progress we have made as outlined in the main part of our submission.

We have organised ourselves around four sets of activities: ARRIVE – attracting girls aged 9-18 to CS, ASPIRE – supporting our female students throughout their academic experience, ACHIEVE - encouraging our female undergraduates to get top degrees, and ADVANCE – increasing numbers of CS female academics.

Our ARRIVE efforts have been extensive through engagement with schools. Of 15 CS outreach events held at UCL this past year, 71% of the attendees were female. The long-term goals of our efforts are to promote CS as an attractive subject and career prospect for women, and as a consequence to increase female application numbers significantly.

Our female undergraduates have started to play much more prominent roles in project teams that form part of our undergraduate degree. We see this as evidence that ASPIRE is bearing fruit. As a result of this greater engagement and confidence, and the curriculum changes we have made, the proportion of women obtaining firsts

has been completely transformed, from a low point of 0% 5 years ago to 45% this past year, showing our progress with ACHIEVE.

Our efforts under the ADVANCE initiative have been directed towards increasing the number of female lecturers and to achieve promotions through the ranks. I have personally taken steps to encourage special appointments for Fellows from which a number of women have moved into lecturer positions. I also took the initiative to make a Post-Break Award of £10,000 a permanent feature of the department's funding strategy and so far 3 female staff have benefitted.

I am very happy to report that this year's promotion round has been outstanding. Of five newly promoted professors, two are female. Furthermore, two of our seven new senior lecturers are female.

While there is without doubt a long way to go before we can truly say we are realising the potential of female CS talent, I believe that the last three years have seen us take very significant steps towards achieving this. I look forward to carrying forward our new plans and actions and reaping the benefits of the hard work that you will find reported below.

I am happy to confirm that the information presented in this application, including quantitative and qualitative data, is an honest, accurate and true representation of the department.

Yours,

John Shawe-Taylor

Professor of Computational Statistics and Machine Learning & Head of Department

2. The self-assessment process: maximum 1000 words (988 including table)

Describe the self-assessment process. This should include:

a) A description of the self assessment team: members' roles (both within the department and as part of the team) and their experiences of work-life balance

The SAT was formed in 2011 and currently has 15 members, 8 female and 7 male. It includes undergraduates and postgraduates; academic, teaching, research and professional services staff.

Name	Position	SAT Role	Background and work-life balance
Earl Barr	Senior Lecturer.	Senior lecturer representative.	Has 2 sons who live with him in the summers
Jane Butler	Vice Dean Enterprise, Engineering Sciences.	Athena SWAN Champion.	Has 2 adult daughters. Worked at home freelancing while children were in pre-school. Career has been in the IT and telecommunications industry.
Ivana Drobnjak	Lecturer.	Co-leader ADVANCE* activities.	Married with toddler and twin babies. Took 6-month maternity leaves for both pregnancies, otherwise worked full-time. Children attend nursery school with childcare responsibility shared between parents
JJ Giwa- Majekodunmi	Facilities and Operations Manager, CS Equal Opportunity Liaison Officer.	Budget manager, HR support.	Married with 2 children. Took 6 months maternity leave in 2004, returned on 3-day week basis for 4 months.
Stephen Hailes	Professor, Deputy Head of Department. Heads department's outreach programme.	Leader ARRIVE* activities.	Married with 2 adult children. Governor at girls' secondary school overseeing Computing, Mathematics and Technology curriculum areas, with additional responsibility for high achievers.
Rae Harbird	Teaching Fellow with special responsibility for Outreach.	Organiser ARRIVE activities.	Married with 2 adult children.
Guy Lever	Postdoctoral researcher.	PG representative. Organises postdoc focus groups.	Has worked at UCL for 5 years.
Nuray Muzaffarova	Undergraduate.	UG representative. Helps with UG surveys.	Aiming to become Artificial Intelligence researcher and to provide better life for society.

Name	Position	SAT Role	Background and work-life balance
Graham Roberts	Senior Teaching Fellow, Departmental Tutor for student welfare, Director of Studies responsible for organising teaching in department.	Leader ACHIEVE* activities.	Acted as carer for five years for late mother during long illness; currently looking after elderly father. Made significant change in job responsibilities to better match these caring responsibilities.
John Shawe- Taylor	Professor, Head of Department.	Co-leader ADVANCE* activities. Allocates SAT budget.	Married with 1 child. Director of charity that promotes use of technology in broadening access to education in developed and developing worlds.
Dave Twisleton	Technical IT Support Officer, Department Safety Officer. Involved with teaching support and outreach activities in Department.	Technical support.	He and partner work full-time, childcare organised between them, childminder and grandparents. Governor of daughter's primary school with focus on teaching curriculum.
Caroline Wardle	Visiting Professor.	Athena SWAN Champion.	Single parent of adult daughter adopted as baby. Worked at National Science Foundation in USA, heading national effort to increase opportunities for women in computing.
Tim Weyrich	Professor.	Senior academic representative.	Married with 2 children. Wife works part-time. Childcare managed between nursery school and parents.
Manisha Verma	PhD student.	Leader ASPIRE* activities.	Passionate about teaching and reading.
Anna Zaremba	PhD student.	Data analyst.	Dancing is huge part of her life.

^{*} ARRIVE, ASPIRE, ACHIEVE and ADVANCE are four initiatives for action, see next section for details.

b) An account of the self assessment process: details of the self assessment team meetings, including any consultation with staff or individuals outside of the university, and how these have fed into the submission.

After we applied for a Silver award in 2012 and were awarded a Bronze, the SAT met to reflect on its activities. We invited two new people to join us as Athena SWAN Champions, one from industry (Butler) and one from academia (Wardle). The two champions have brought new perspectives to our activities that have led us to design a strategic framework that encompasses our activities and that provides us with a tool for communicating our goals both within the team and to the department. We identified four broad initiatives, **ARRIVE, ACHIEVE, ASPIRE** and **ADVANCE,** each headed by SAT members.

ARRIVE – Low numbers of schoolgirls are interested in CS. We want to see equality in the male to female ratio.

Action goals:

- 1. Change attitudes to CS amongst girls aged 9-18.
- 2. Provide thought leadership and education to school educators.
- 3. Ensure that all our outreach events become, on average, 50% female.

ASPIRE - Undergraduate CS women are a small minority. We will provide multiple avenues for peer support and industry interaction for their academic, professional and personal development.

Action goals:

- 1. Develop a supportive community of female CS students at all levels.
- 2. Provide female CS students opportunities for networking, professional development, mentoring, and outreach activities.

ACHIEVE – There are lower than expected numbers of female CS undergraduates attaining the highest levels of degrees. Our aim is to see equality in degree classification attainment.

Action goals:

- Design interventions to produce more undergraduate women gaining 1st and 2:1 degrees
- 2. Imbed real-world use and interaction into the undergraduate programme

ADVANCE – The ratio of women to men gets worse as you climb the academic ranks. Our aim is to obtain equality in female and male progression.

Action goals:

- 1. Put in place Proleptic appointments for progression from Fellowship to Lectureship.
- 2. Provide support and training to help postdocs and PhD students in applying for Fellowships.
- 3. Promotion at all grades to have gender equality.

We have chosen to focus a significant proportion of our effort on students, through our ARRIVE, ASPIRE and ACHIEVE activities. We believe that one of the most difficult problems to solve in CS is how to increase the pool of females in the academic pipeline from schools to undergraduates to postgraduates.

In response to panel feedback, we have consulted with three UCL Engineering Sciences departments that have received Silver awards.

The SAT meets every month during term time to discuss and monitor progress. Since there are SAT members on every departmental committee, information on AS activities is channelled through these committees. The HoD (Taylor) and AS Champion (Butler) brief the Senior Management team once a month, and the HoD communicates SWAN activities to the whole department through departmental meetings and email, and with the CS student body via email and social media.

c) Plans for the future of the self assessment team, such as how often the team will continue to meet, any reporting mechanisms and in particular how the self assessment team intends to monitor implementation of the action plan.

After submission of our Silver application, the SAT will continue meeting monthly to monitor progress, adapting our actions as needed.

Athena SWAN is a standing item on the Senior Management team agenda.

We will continue to conduct annual focus groups and surveys of staff and students to obtain data on progress.

- **3.** A picture of the department: maximum **2700** word (2672) (Revised word count approved by ECU)
- a) Provide a pen-picture of the department to set the context for the application, outlining in particular any significant and relevant features.

UCL Computer Science (CS) is one of the leading UK departments in research and teaching in CS, and is part of the Faculty of Engineering Sciences (FES). In the 2014 Research Excellence Framework (REF) evaluation UCL was ranked in first place for CS, out of 89 Universities assessed; 96% of its research submission was rated as internationally excellent.

We take pride in the quality and breadth of our teaching portfolio. We run undergraduate programmes and a wide variety of postgraduate programmes, most of which are linked directly into our research base. We use a variety of practical problem- and project-based tasks to extend the students technically and develop their collaboration, teamwork and leadership skills. This past year, there were about 120 entering undergraduates and 335 taught (Masters) postgraduates. Over the next 3-4 years, we plan to increase progressively the undergraduate intake to around 150 and the taught (Masters) postgraduate to 400.

Six years ago the department embarked on a significant revision to the way that undergraduate courses were taught, moving from a primarily lecture-based approach to problem-based learning with lab and project-based work. This strategy in CS acted as a beacon for the development of the Integrated Engineering Programme (IEP) now in place in FES. Offering a balance of theoretical and practical specialisms, student teams come together to tackle ambitious real world problems such as deploying renewable energy resources and global connectivity. Alongside their fundamental CS studies, students follow interests in other subject areas

including management science, biomedical engineering and industrial design. As part of FES at UCL, students work collaboratively with engineers and scientists from all other disciplines. This is providing us with an opportunity for innovation in the way we encourage female CS students to pursue a career in research, science and engineering. We are already seeing significant positive impact of this change in our female students.

The CS department has 68 Academic, 8 Teaching and 90 Research staff, as well as 32 Professional Services staff and 7 technicians. We have 11 research groups together with 8 associated large-scale interdisciplinary research centres. The department is now spread over 3 different buildings in central London.

Links between industry and education are important to us so that our teaching is relevant and informed by problems currently facing industry. An External Advisory Board (EAB) offers advice on our current and proposed activities, provides us with the opportunity to consider plans for re-invigorating and restructuring our degrees, and helps shape our Research Impact. The 22-member Board meets bi-annually and its membership is divided evenly between highly experienced industry partners, leading technologists and entrepreneurs, and senior members of the department.

Currently 3/11 external members of the EAB are senior women executives drawn from our industrial partners, and 3/11 internal members are female senior academic and professional staff in the department. The topic of gender and diversity is discussed at every meeting and at the board meeting in March 2015, the main topic of discussion was the execution of the Athena SWAN plan.

The department has long recognised that the underrepresentation of women in CS extends back to interest in computing in schools. As part of our ARRIVE activities, we have extended our existing programme of engagement with primary and secondary schools to include project workshops for schoolchildren, and industry-funded multidisciplinary summer schools for A-level students that tackle real world problems. The school workshops are designed to be equally attractive to girls and boys. And the summer schools have equal attendance by male and female students.

b) Provide data for the past three years (where possible with clearly labelled graphical illustrations) on the following with commentary on their significance and how they have affected action planning.

Student data

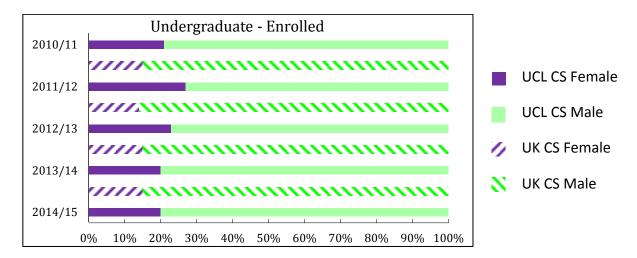
(i) Numbers of males and females on access or foundation courses – comment on the data and describe any initiatives taken to attract women to the courses.

UCL CS does not offer foundation courses.

(ii) **Undergraduate male and female numbers** – full and part-time – comment on the female:male ratio compared with the national picture for the discipline.

Describe any initiatives taken to address any imbalance and the impact to date.

Comment upon any plans for the future.



	UCL CS			UK CS	(HESA)	
Year	Female	Female	Male	Female	Female	Male
2010/11	44	(21%)	168	6850	(15%)	39865
2011/12	53	(27%)	141	6740	(14%)	40010
2012/13	54	(23%)	181	6340	(15%)	36375
2013/14	56	(20%)	228	6705	(15%)	38695
2014/15	71	(20%)	276			

Figure 1: Numbers of female and male undergraduates enrolled in CS programmes, comparison of UCL versus UK, 2010/11 – 2014/15. UK data source: HESA.

All our undergraduate students are full-time. The number of enrolled women undergraduates has been stable over the past 5 years and our % figures are consistently above the national average. The student-focused initiatives of our strategy, ARRIVE, ASPIRE AND ACHIEVE, are starting to open up our pipeline of females studying CS.

We have seen a significant increase in girls and their parents attending our CS Open Days and we strongly suspect this is a direct result of the impact of our ARRIVE work. We will be investigating this further in our Action Plan.

ACTION 1.4 Collect and analyse the Open Day attendance data and their links to our ARRIVE strategy.

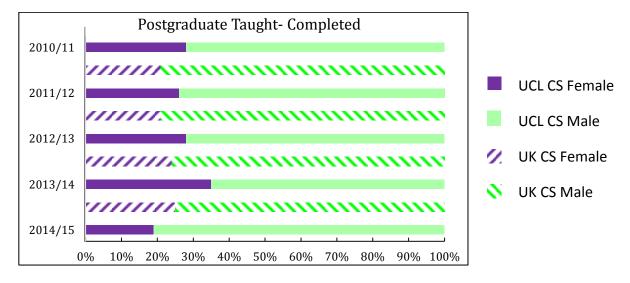
A body of research and experience in the U.S. has demonstrated that an approach called service learning (engineering-based projects in local community service and educational organizations) attracts women to study Engineering disciplines (Reference: EPICS programme, Purdue University, started in 1995 and widely adopted by other universities). Our ACHIEVE initiative has adopted a similar technique where our students have to engage in several major software development projects undertaken outside UCL with industry partners, charities and hospitals, enabling students to make a real contribution to society and in industry.

We are now using a mobile platform called 'Placed' to allow a broader range of these partners to offer our students project work. This mobile platform will be deployed across UCL and then offered to other UK universities. We expect this to make a further significant positive impact on the number of girls attracted to and successful in CS.

ACTIONS 2.1 and 2.2 Scale up the mobile platform 'Placed' to increase the number of service and industry based real world projects for students. Expand the use of the platform to other UK universities.

As part of the project work we ensure that all students take a turn at group leadership and managing client interaction. This creates a positive gender neutral atmosphere. We regularly invite project clients to events such as project presentations, enabling students to meet and interact with them. This has proved to be an effective way for students to meet women in industry, especially at senior levels. Many of these organisations have provided student prizes, donated equipment and provided access to advanced and experimental services giving our students strong reinforcement that they are undertaking high impact project work.

(iii) Postgraduate male and female numbers completing taught courses – full and part-time – comment on the female:male ratio compared with the national picture for the discipline. Describe any initiatives taken to address any imbalance and the effect to date. Comment upon any plans for the future.



	UCL CS			UK CS	(HESA)	
Year	Female		Male	Female		Male
2010/11	54	(28%)	136	2135	(21%)	8275
2011/12	47	(26%)	133	2025	(21%)	7420
2012/13	58	(28%)	146	1790	(24%)	5575
2013/14	105	(35%)	194	1675	(25%)	4920
2014/15	59	(19%)	192			

Figure 2: Numbers of female and male students completing postgraduate taught programmes, comparison of UCL versus UK, 2010/11 – 2014/15. UK data source: HESA.

All our students are full-time. The proportion of female students has consistently exceeded the national figures from 2010/11 - 2013/14. We noticed a considerable increase in the actual number of females completing PGT taught programmes in 2013/2014 followed by a drop of numbers and a percentage drop in 2014/15. We have not yet had time to investigate these swings in numbers and percentages but we are working with our PGT administration and admissions team to get a better picture in order that we can address the issues correctly.

ACTION 2.3 Examine reasons for changes in PGT completion and take any necessary corrective action.

Our initial ASPIRE and ACHIEVE actions focused on female undergraduates since these women are earlier in the pipeline than female postgraduates. Now we have met these initiatives' goals, we will expand their scope to include actions for female postgraduates. The programme will begin with focus groups and surveys across our PGT student cohort to get a clear picture of how to have a positive impact on the experience of our PGT females, followed by a set of actions arising from this understanding.

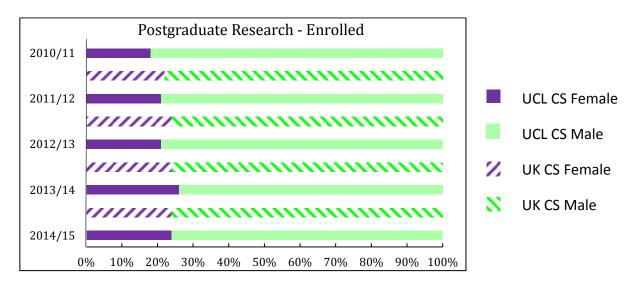
ACTION 2.4 Widen the scope of ASPIRE and ACHIEVE to include female postgraduate students.

A Graduate Support scheme supported by HEFCE was put in place in 2014 offering £10,000 plus full childcare costs and industry mentoring. CS offered 7 places to women to study a general CS Masters course in advance of returning to the workplace. All 7 female students successfully completed their MSc course in 2014.

In UCL CS we run this general CS Masters course for those completing a first degree in another subject to augment their qualifications by combining CS with another subject such as Business Studies, Mathematics or a Science. We have found over many years that this particular Masters course is very attractive to women, either immediately following their first degree, after a few years in industry or more importantly when returning to work after having a family. As CS becomes a core part of many industrial careers in all sectors, both men and women are finding that augmenting their degree with a postgraduate CS qualification opens up many new exciting work opportunities. And for young women who did not choose to study CS at undergraduate level, this option gives them a route into CS at the Masters level. We will leverage this with our industrial partners to put in place an industry-funded Graduate Support Scheme.

ACTION 2.6 Work with our industrial partners to grow our Graduate Support scheme for female PGT students.

(iv) Postgraduate male and female numbers on research degrees – full and parttime – comment on the female:male ratio compared with the national picture for the discipline. Describe any initiatives taken to address any imbalance and the effect to date. Comment upon any plans for the future.



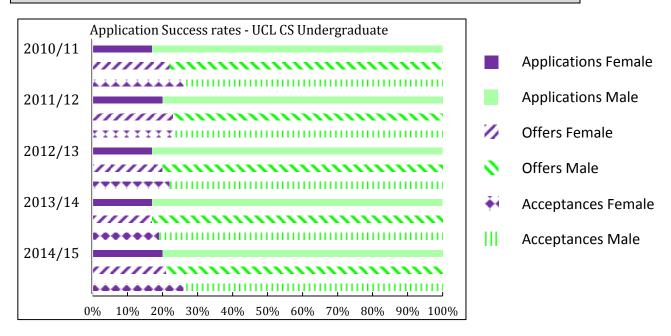
Postgraduate	Postgraduate Research - Enrolled											
	UCL CS			UK CS	(HESA)							
Year	Female		Male	Female		Male						
2010/11	24	(18%)	113	760	(22%)	2735						
2011/12	30	(21%)	111	920	(24%)	2875						
2012/13	31	(21%)	115	905	(24%)	2895						
2013/14	42	(26%)	119	945	(24%)	2965						
2014/15	43	(24%)	135									

Figure 3: Numbers of female and male students enrolled in postgraduate research programmes, comparison of UCL versus UK, 2010/11 - 2014/15. UK data source: HESA.

Over the past 5 years the number of women enrolled in postgraduate research degrees has been slowly increasing and last year there were 80% more women enrolled than 5 years ago. This contrasts with a 19% increase for men over the same 5 year period. We are now more in line with the national average for CS (24%). Encouragingly, there isn't a clear drop in the pipeline from UG to PGR within CS – from 20% at UG to 24% at PGR.

In concert with broadening the ASPIRE and ACHIEVE programmes to encompass PGT students, we will also include female PGR students in these initiatives. We will first gain insights into how to have a positive impact on the experience of our PGR females, followed by a programme of actions. (reference: *ACTION 2.4*).

(v) Ratio of course applications to offers and acceptances by gender for undergraduate, postgraduate taught and postgraduate research degrees – comment on the differences between male and female application and success rates and describe any initiatives taken to address any imbalance and their effect to date. Comment upon any plans for the future.



	Application Success Rates for Undergraduate UCL CS												
	Applications Offers Acceptances												
Year	Female	Male	Female	Male	Female	Male							
2010/11	112 (17%)	531	66 (22%)	237	35 (26%)	100							
2011/12	153 (20%)	629	65 (23%)	217	24 (23%)	82							
2012/13	121 (17%)	599	82 (20%)	335	40 (22%)	146							
2013/14	153 (17%)	731	83 (17%)	410	40 (19%)	167							
2014/15	226 (20%)	917	136 (21%)	509	75 (26%)	218							

Figure 4a: Application Success rates for female and male UCL CS undergraduates, showing applications, offers and acceptances, 2010/11 - 2014/15.

App	Application Success Rates for Undergraduate UK CS (UCAS)												
	A	Application		Acceptanc	es								
Year	Fem	nale	Male	Fer	male	Male							
2010/11	13230	(15%)	77030	3100	(15%)	17400							
2011/12	13810	(14%)	83295	2970	(15%)	17450							
2012/13	12475	(14%)	77455	2715	(14%)	16640							
2013/14	13355	(13%)	86345	2925	(13%)	18785							
2014/15	14990	(13%)	97310	3125	(13%)	20460							

Figure 4b: Application Success rates for female and male UK CS undergraduates, showing applications and acceptances, 2010/11 – 2014/15. UK data source: UCAS.

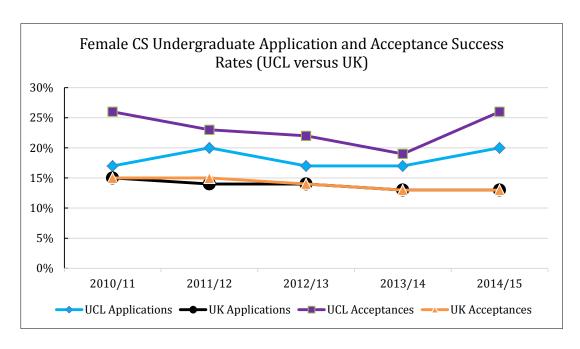
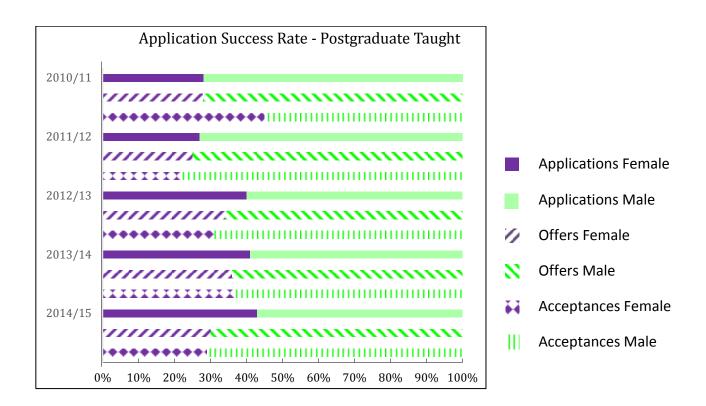


Figure 4c: Application and Acceptance Success rates for female CS undergraduates, showing applications and acceptances, comparison of UCL versus UK, 2010/11 – 2014/15. UK data source: UCAS.

The percentage of applications from women varies between 17% and 20%, but in every year it has exceeded the national average. The percentage of acceptances exceeds the percentage of applications and offers.

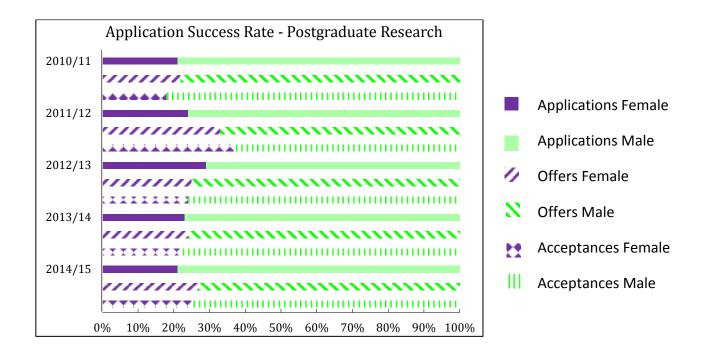


	Application	ons		Offers			Acceptances			
Year	Female		Male	Female	2	Male	Female	2	Male	
2010/11	427	(28%)	1084	180	(28%)	452	88	(27%)	236	
2011/12	443	(27%)	1173	144	(25%)	442	71	(22%)	254	
2012/13	756	(40%)	1122	198	(34%)	392	115	(31%)	251	
2013/14	881	(41%)	1260	266	(36%)	472	161	(37%)	280	
2014/15	1038	(43%)	1354	208	(30%)	496	138	(29%)	336	

Figure 5: Application Success rates for female and male postgraduates in taught CS programmes, showing applications, offers and acceptances, 2010/11 - 2014/15.

The numbers of PGT applications, offers and acceptances for women have been rising steadily since 2011/12. We saw a slight drop in offers and acceptances to women in 2014/2015. We are examining our 15 masters degree programmes and the selection process to see if we can identify the reasons behind this drop-off.

ACTION 2.5 Examine all PGT degree programmes and their selection processes to understand why there was a drop in offers to and acceptances from female PGT students in 2014/15.



		Application	ons		Offers		Acceptances			
Year	Female		Male	Female		Male	Female		Male	
2010/11	62	(21%)	235	21	(22%)	76	14	(18%)	63	
2011/12	83	(24%)	257	28	(33%)	57	25	(37%)	43	
2012/13	119	(29%)	293	27	(25%)	79	20	(24%)	62	
2013/14	82	(23%)	282	24	(24%)	75	16	(22%)	56	
2014/15	` '		28	(27%)	75	20	(25%)	61		

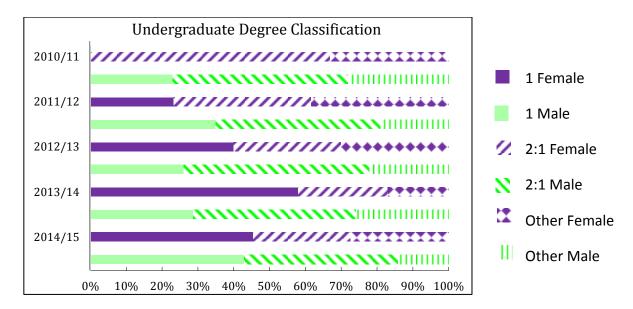
Figure 6: Application Success rates for female and male postgraduates in CS research programmes, showing applications, offers and acceptances, 2010/11 - 2014/15.

The data indicates no bias against women in the PGR application process. However we would like to see more women apply in the first place.

To support our current PGR students, the department has expanded the PGR networking and social programme stimulating a greater peer network. There is a pizza party for PGR's held at the beginning of each academic year that was started in 2015/2016. A conference has been established to take place in December 2015 where PhD students will present their work, this is organised by the PGR students themselves with support from the department, and will be an annual event. Both events are funded by the CS HoD from departmental funds.

ACTION 2.9 Expand the networking and social programme for PGR students to ensure a strong peer group offering mutual support.

(vi) **Degree classification by gender** – comment on any differences in degree attainment between males and females and describe what actions are being taken to address any imbalance.



Undergra	duate Degr	ee		Classification							
	Tot	al		Femal	e						
Year	Female	Male	1	2:1	Other	1	2:1	Other			
2010/11	3	43	0%	67%	33%	23%	49%	28%			
2011/12	13	26	23%	38%	38%	35%	46%	19%			
2012/13	10	27	40%	30%	30%	26%	52%	22%			
2013/14	12	35	58%	25%	17%	29%	46%	26%			
2014/15	11	56	45%	27%	27%	43%	43%	14%			

Figure 7: Undergraduate Degree Classification for female and male undergraduates, 2010/11 – 2014/15. Other consists of 2:2, 3rd and pass degrees. Percentages represent the number of females (males) with each degree classification divided by total number of females (males)

In 2010/11 we noted that there were no female recipients of first class degrees. We addressed this in our previous Athena SWAN submission action plan. The SAT, in conjunction with the Teaching Committee, agreed to put in place a number of measures to address the problem. Perhaps the most significant decision taken, as part of our ACHIEVE strategy, was to change the way that CS is taught and presented to students, in particular, the focus on using CS to solve real-world problems. We believe that making CS more applicable to society and to industry created much higher impact of our teaching, lab and project work for all students regardless of gender.

A second SAT initiative was to examine the student experience. In 2013 our first ASPIRE leader established the UCL Student Society of Women Engineers (UCLWE) to support the professional, academic and personal development of FES students. She surveyed the membership and found that over 80% complained about social

isolation and lack of friendship within UCL. Most of them acknowledged a lack of confidence in speaking up during lectures and in conducting interviews.

In response to this survey, UCLWE organised workshops on presentation and leadership, as well as a student-run mentoring scheme named BigEng Sister. Attendees of the workshops reported they found them of great value and subsequently felt more confident attending interviews and leading group projects. The BigEng Sister programme holds regular peer-mentoring sessions where female students can obtain help from one another on topics they are having difficulties with.

In 2013-2014, UCLWE organised 6 events with an average of 25 participants per event, and 1 external outreach event – the Big Bang Fair. in 2014-2015, it organised 15 events with on average of 34 participants per event.



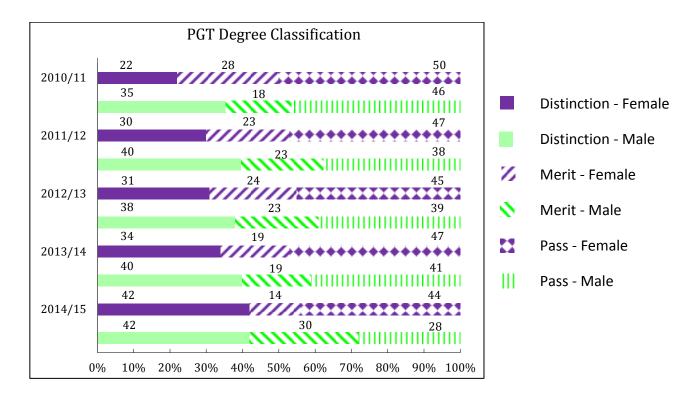
Figure 8. UCLWE activity at the Big Bang Fair 2014 – A Celebration of Science and Engineering for Young People

To meet an increased demand for specialised CS events, our ASPIRE leader created a UCLWE/CS Chapter in 2013 to organise activities relevant to CS students. Two popular events were a presentation by a Google engineer who talked about digital content creation from blogs to YouTube to mobile applications, and a workshop hosted by Facebook engineers who gave tips on preparing for a coding interview.

As a result of these successful interventions, over the past 3 years, the proportion of first class CS degrees awarded to women increased significantly and now exceeds the proportion awarded to men.

ACTION 2.7 SAT to raise funds to sponsor female CS students to attend conferences and workshops.

ACTION 2.8 ASPIRE to organise UCLWE activities for women in FES, and organise UCLWE/CS career events for women in CS.



	Total		Female			Male			
Year	Female Male		Distinction Merit		Pass	Distinction	Merit	Pass	
2010/11	54	136	22%	28%	50%	35%	18%	46%	
2011/12	47	133	30%	23%	47%	40%	23%	38%	
2012/13	58	146	31%	24%	45%	38%	23%	39%	
2013/14	105	194	34%	19%	47%	40%	19%	41%	
2014/15	59	192	42%	14%	44%	42%	30%	28%	

Figure 8: Degree Classification for female and male postgraduates in taught CS programmes, 2010/11 - 2014/15. Percentages represent number of females (males) with each degree classification divided by total number of females (males)

The % of women receiving PGT degree distinctions has increased steadily over the past 5 years. With our planned increased focus on female PGT students (reference: ACTIONS 2.3 - 2.6) we expect this growth to be sustained or increased.

Staff data

(vii) Female:male ratio of academic staff and research staff – researcher, lecturer, senior lecturer, reader, professor (or equivalent). Comment on any differences in numbers between males and females and say what action is being taken to address any underrepresentation at particular grades/levels.

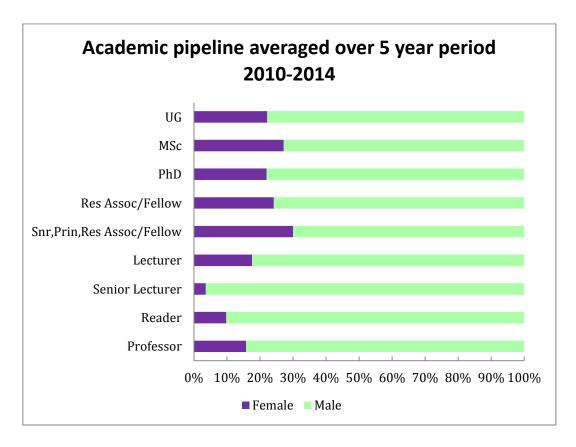


Figure 9a. CS academic pipeline averaged over the five-year period, 2010-2014. Note that Research Assistants are excluded, as they are predominantly part time PhD students. The Principal Research Associate/Fellow category is presented together with Senior Research Associate/Fellow.

The chart in Figure 9a illustrates our CS pipeline from undergraduate through research staff to academic staff; the teaching staff career ladder is addressed later.

						(CS A	ademic	Staff						
Oct 1	ct 1 Lecturer Senior Lecturer Reader Professor Total														
Year	F	emale	Male	Fe	emale	Male	Fe	Female		Female		Male	Fe	male	Male
2010	1	(9%)	10	1	(10%)	9	0	(0%)	4	3	(15%)	17	5	(11%)	40
2011	1	(13%)	7	1	(8%)	12	0	(0%)	5	4	(18%)	18	6	(13%)	42
2012	2	(17%)	10	0	(0%)	11	1	(11%)	8	4	(17%)	20	7	(13%)	49
2013	3	(20%)	12	0	(0%)	15	2	(20%)	8	4	(15%)	22	9	(14%)	57
2014	4	(29%)	10	0	(0%)	15	2	(18%)	9	4	(14%)	25	10	(14%)	59

Figure 9b. Numbers of female and male CS academic staff, 2010-2014.

	CS Research Staff														
Oct 1	Research Research Assistant Associate/Fello						Principle Research Associate/Fellow			Total					
Year	Fe	male	Male	Fem	ale	Male	Fe	male	Male	Fe	male	Male	Female		Male
2010	0	(0%)	3	10	(19%)	42	3	(30%)	7	0	(0%)	0	13	(20%)	52
2011	0	(0%)	3	11	(31%)	25	4	(27%)	11	0	(0%)	0	15	(28%)	39
2012	1	(20%)	4	13	(29%)	32	4	(27%)	11	0	(0%)	0	18	(28%)	47
2013	1	(33%)	2	12	(24%)	39	6	(35%)	11	1	(100%)	0	20	(28%)	52
2014	2	(100%)	0	12	(18%)	53	4	(25%)	12	2	(40%)	3	20	(23%)	68

Figure 9c. Numbers of female and male CS research staff, 2010-2014.

Figure 9a shows that the average proportion of females in the student and research staff levels varies from 22%- 29% in contrast to the academic levels varying from 4% - 18%. This lower proportion in academic staff is a key attrition point driving our ADVANCE initiatives.

Academic:

The total number and proportion of female academic staff has increased slowly over the past 5 years, although the numbers are small. At the Lecturer level, the increase in proportion from 9% to 29% has been strongly influenced by the Proleptic Lectureship Scheme (discussed in 4.b.ii) that we introduced in 2012 together with active recruitment by the department.

The lack of female senior lecturers has been a concern but in 2015 (so not shown in Figure 9b), two female Lecturers were promoted to Senior Lecturer and the department recruited 1 additional female Senior Lecturer. We will continue our ADVANCE focus on increasing the number of incoming female Lecturers to give us a greater pool of female talent for promotion through the ranks. Alongside this we will continue our recruitment of female academics at all levels from outside UCL.

Research:

Overall, the percentages of females in research staff are close to or higher than those of students (see Figure 9a), which suggests that our recruitment and support for research staff are working.

But returning to Figures 9a and 9b, the research staff data shows a higher average proportion of females (25%) than our academic staff data (13%), averaged over the past five years. We believe that this is due to the challenging nature of securing a permanent academic post, which often falls around the time women are ready to start families. We found that moving from a non-permanent research post to a permanent academic post is the biggest point of attrition for our female staff pipeline. In response we implemented the Proleptic Lectureship Scheme as described in Section 4.b.ii.

Teaching:

CS Teaching Staff												
Oct 1	Teaching Fellow			Senior Teaching Fellow				Total				
	Female		Male	Female		Male	Female		Male			
2010	1 ((14%)	6	1	(50%)	1	2	(22%)	7			
2011	1 ((20%)	4	1	(33%)	2	2	(25%)	6			
2012	1 ((20%)	4	1	(33%)	2	2	(25%)	6			
2013	2 ((40%)	3	1	(33%)	2	3	(38%)	5			
2014	2 ((40%)	3	1	(33%)	2	3	(38%)	5			

Figure 10. Numbers of female and male CS teaching staff, 2010-2014.

In addition to academic and research staff, CS has teaching staff, who have a different career progression to that of academic and research staff. UCL recognises a teaching career path in the form of Teaching Fellow and Senior Teaching Fellow (equivalent to Lecturer) and Principal Teaching Fellow (equivalent to Senior Lecturer) and is putting into place a final promotion step to Professor. The CS teaching staff are currently at the Teaching and Senior Teaching Fellow levels. When the new UCL process is in place, we will develop activities to support the promotion opportunities for our teaching staff.

All CS Teaching staff are part of the Advanced Teaching Group, with equivalent status to the departmental research groups, but focused solely on leading the teaching strategy of the department alongside advanced pedagogical research. Although the numbers are small, women are well represented.

(viii) **Turnover by grade and gender** – comment on any differences between men and women in turnover and say what is being done to address this. Where the number of staff leaving is small, comment on the reasons why particular individuals left.

Turnover				
Year	Leaving reason	Female	Male	Total
2009/10	End of funding	2 (14%)	12	14
	Resignation	0 (0%)	3	3
	Retirement	0 (0%)	2	2
2010/11	End of funding	2 (15%)	11	13
	Resignation	0 (0%)	13	13
2011/12	End of funding	0 (0%)	5	5
	Resignation	2 (40%)	3	5
2012/13	End of funding	3 (33%)	6	9
	Resignation	2 (33%)	4	6
2013/14	End of funding	3 (37%)	5	8
	Resignation	4 (25%)	12	16

Figure 11. Turnover, 2010-2014.

In our 2012 application, we did not include leavers whose grants had ended. Here we have included this data and see that from 2010-2014, 10 women left because of end of funding compared to 39 men. Over the 5 year period the proportion of female leavers averaged 20%. The table on research staff in the previous section shows that over this same 5-year period, the proportion of female research staff ranged from 20% to 28% with an average of 25%. Thus the turnover data does not seem out of line with our staff profile.

All staff whose funding is ending are interviewed by their supervisor 3 months prior to the end, onward career opportunities are discussed and actions put in place to ensure new opportunities are secured. Openings for continuing a research path at UCL are prioritised.

4. Supporting and advancing women's careers: maximum 4300 words (3909) (Revised word count approved by ECU)

Key career transition points

a) Provide data for the past three years (where possible with clearly labelled graphical illustrations) on the following with commentary on their significance and how they have affected action planning.

(i) **Job application and success rates by gender and grade** – comment on any differences in recruitment between men and women at any level and say what action is being taken to address this.

,	Application Success rates for female and male Academics staff											
	А	pplication	ons		Interv	iews		Appointments				
Year	Female		Male	Female		Male	/lale Fem		Male			
2010	8	(19%)	35	0	(0%)	5	0	(0%)	1			
2011	17	(24%)	53	1	(14%)	6	0	(0%)	2			
2012	18	(11%)	147	5	(22%)	18	2	(33%)	4			
2013	33	(12%)	241	5	(17%)	24	1	(10%)	9			
2014	14	(11%)	114	2	(10%)	19	1	(25%)	3			

Figure 12: Application Success Rates for female and male academic staff, showing applications, interviews held and appointments. Data refers to whole calendar year.

The numbers for female academic staff applications are small, but in the past 3 years women do not appear to have been disadvantaged in the application process. We would like to see more women apply in the first place and the ADVANCE initiative is addressing this.

Application Success rates for female and male Research staff											
Oct 1	Applications				Intervie	WS	Appointments				
Year	Female		Male	Female		Male	Female		Male		
2010	122	(45%)	150	11	(34%)	21	6	(33%)	12		
2011	30	(19%)	127	8	(28%)	21	6	(40%)	9		
2012	49	(21%)	190	13	(27%)	36	4	(25%)	12		
2013	128	(25%)	382	19	(27%)	51	11	(31%)	24		
2014	88	(23%)	299	11	(21%)	41	5	(20%)	20		

Figure 13. Application Success Rates for female and male research staff, showing applications interviews held and appointments. Data refers to whole calendar year.

The data in Figure 13 show that for the past 4 years the proportion of women receiving interviews and appointments either exceeds or is very close to the proportion in the applicant pool. So women do not appear to have been disadvantaged in the application process.

Application Success rates for female and male teaching staff												
Oct 1	Applications				Interview	S	Appointments					
Year	Female		Male	Female		Male		Female	Male			
2010	5	(42%)	7	1	(50%)	1	1	(100%)	0			
2011	16	(24%)	52	2	(29%)	5	0	(0%)	1			
2012	0	(0%)	4	0	(0%)	2	0	(0%)	1			
2013	2	(100%)	0	1	(100%)	0	1	(100%)	0			
2014	15	(28%)	38	2	(50%)	2	1	(50%)	1			

Figure 14: Application Success Rates for female and male teaching staff, showing applications interviews held and appointments. Data refers to whole calendar year.

Teaching staff recruitment is for both Teaching Fellows, and for short-term teachers to cover the unavailability of other staff (e.g., maternity leave cover). The recruitment of teaching staff follows the same process as that for academic staff. We see a good number of female applicants so the pool of available talent to join is high. The interviews and appointments numbers above show that females are well represented, accounting on average for half of the appointments made.

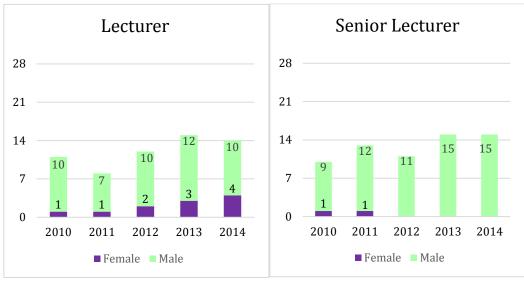
To ensure the recruitment process remains free from bias, in 2014 the SAT suggested that an unconscious bias training workshop should be offered in the CS department. In early 2015 UCL's Head of Equalities and Diversity conducted the workshop which covered unconscious bias in student recruitment, academic staff recruitment and academic staff promotion. This first workshop was open to SAT members, and senior academic and administrative staff. Of the 11 attendees (4 female, 7 male) 7 were Professors, 5 were HoG and 4 were SAT members.

Action 3.5 Offer annual unconscious bias workshops to the CS department with goal of all HoG's having attended a workshop.

(ii) Applications for promotion and success rates by gender and grade – comment on whether these differ for men and women and if they do explain what action may be taken. Where the number of women is small applicants may comment on specific examples of where women have been through the promotion process. Explain how potential candidates are identified.

From October 2010 to October 2014, 25 applications for promotion of Academic Staff were submitted (24 male and 1 female). They were all successful except one male applicant. The female promotion was from Senior Lecturer to Reader. The difference in male vs. female promotions (24:1) is large but the pool of females available for promotion has been historically small, see Figure 15.

Academic Staff



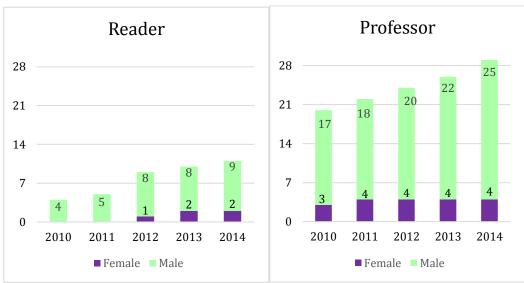


Figure 15: Numbers of female and male CS academic staff, 2010-2014. Chart source data are from table in Figure 9b.

In 2013 a survey of the department staff on the promotion process indicated that only 51% males and 45% females thought the process was fair. This prompted the department to change its promotion procedures. Up to 2013, potential non-professorial candidates were left to self-initiate the submission of their CVs to the HoD's professorial advisory group who would then review them and invite those considered worthy to apply for promotion.

Under the new procedure, all non-Professorial members of staff are now required to submit their CVs to the HoD every year. All submissions are invited in the first week of the academic year and departmental HR staff ensure all staff submit. The HoD

solicits advice from an advisory group of all Professors (4 female, 25 male) and Heads of Group (HoG). This larger advisory group was chosen to ensure that there is no bias created through differences in propensity for self-promotion. Potential candidates for promotion are identified by this group through a rigorous review. Those identified are then invited to apply with appropriate letters of support.

After the changes were made there was an increase in female promotions from 1 in 2010-2014 to 3 in 2015. We believe that the change in promotion procedures has been a strong factor in the increase. Overall we have received extremely positive feedback about the changes. Case Study 2 highlights the experience of one of our female staff.

- b) For each of the areas below, explain what the key issues are in the department, what steps have been taken to address any imbalances, what success/impact has been achieved so far and what additional steps may be needed.
- (i) **Recruitment of staff** comment on how the department's recruitment processes ensure that female candidates are attracted to apply, and how the department ensures its short listing, selection processes and criteria comply with the university's equal opportunities policies.

The department ensures its advertising and short listing adhere to UCL's equality policies. The training of staff involved in interview panels is mandatory in CS – this 'fair recruitment briefing' is run by UCL and includes information on the Equality Act, positive action and unconscious bias. Our shortlisting and interview panels always contain female members of staff. (UCL policy is that there should be no 100% male or 100% female interview panels.)

At the interview stage all candidates have a tour of CS and meet both male and female staff. One female candidate said:

"Everyone I met was very friendly and open, and the whole atmosphere is inclusive and female friendly. What is especially important is the presence of senior female academics who have won prestigious awards and are in leadership roles. I think UCL's Computer Science is the friendliest place for female academics that I have seen so far."

(ii) Support for staff at key career transition points – having identified key areas of attrition of female staff in the department, comment on any interventions, programmes and activities that support women at the crucial stages, such as personal development training, opportunities for networking, mentoring programmes and leadership training. Identify which have been found to work best at the different career stages.

A key point of attrition of female staff in the department is the transition from research staff (open ended with a funding end date) to academic staff (permanent),

typically around the time women are likely to start a family. Our ADVANCE strategy addresses this transition and has initially focused on using the Proleptic Lectureship (PL) Scheme to increase the number of female academic staff.

When a Research Fellow holding an independent external Fellowship is appointed as a PL, the department guarantees moving them to a permanent academic post at the end of their Fellowship. Typically this is a Lecturer position but it can be more senior if the Fellow is suitably qualified. The scheme is open to all female and male researchers.

We started the scheme 3 years ago, and found it to be equally successful for males and females.

- In 2012 we had 1 female and 2 male PL's;
- In 2013 we had 2 female and 2 male PL's;
- In 2014, One female PL and one male PL finished their fellowships and were
 moved to permanent academic posts (Lecturer and Reader
 respectively). 1 new female and 2 new males were awarded PL's
 leaving a balance of 2 female and 3 male PL's on the scheme.

Action 3.1 Continue the Proleptic Lectureship scheme along with departmental recruitment.

Figure 16 shows how the PL scheme has increased the number of female lecturers (solid line) over the past 5 years.

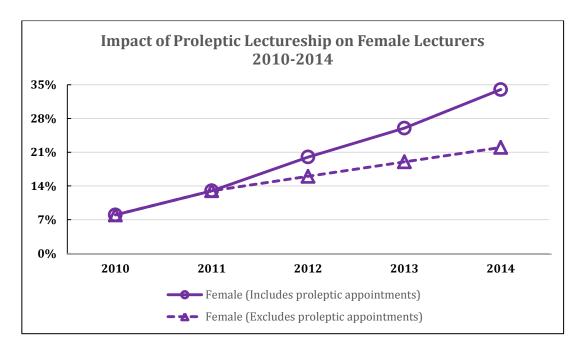


Figure 16. Impact of Proleptic Lectureships on number of female lecturers, 2010-2014.

Once on the academic track, staff have a number of challenges they face at different stages of their career. Through talking with female academics we discovered that

some of them would like stronger social interaction and informal mentoring that can arise from developing spontaneous relationships.

Therefore a year ago ADVANCE started holding monthly socials for female academics. They are well attended with on average 60% of female staff attending. We use these informal sessions for brainstorming new ideas that could lead to more women in academic positions. Feedback from the attendees shows the value of these meetings:

"The monthly "ladies tea" are a great opportunity to fence time in the diary to properly catch up with female colleagues. This is important because the department has grown so big and we are now spread over three different buildings."

We also use these occasions to celebrate successes of our female academics.



Figure 17. Female academic staff celebrating with Professor Angela Sasse, her election to Fellow of the Royal Academy of Engineering.

Understanding our CS Postdoc community better was also thought to be an important aspect of retaining female academics at key career transition points. The female academics suggested inviting the Postdocs to the ladies social event once a term. This will help with communication across research disciplines and also allow Postdocs to be more strongly associated with the female academic community.

ACTION 3.2 Invite Postdocs to join a Ladies Social meeting once a term.

A focus group of 9 of our CS Postdocs (both male and female and across multiple research groups) was held in November 2015. A request raised by the Group was for the department to provide support for early career researchers in applying for Fellowships.

ACTION 3.3 Put in place an annual Fellowship training workshop open to all CS PhD's and Postdocs.

Career development

- a) For each of the areas below, explain what the key issues are in the department, what steps have been taken to address any imbalances, what success/impact has been achieved so far and what additional steps may be needed.
- (i) **Promotion and career development** comment on the appraisal and career development process, and promotion criteria and whether these take into consideration responsibilities for teaching, research, administration, pastoral work and outreach work; is quality of work emphasised over quantity of work?

UCL staff are expected to take part in the Appraisal, Review and Development Scheme. Each staff member has an appraisal meeting with their line manager each year approximately (no less frequently than every two years). The Scheme's aim is for all staff to understand the department's expectations of them, to discuss their contributions, and to feel valued. It is an opportunity to identify training and development needs and review workload and flexible working.

In a survey in 2013, 69% of CS survey respondents had received a review in the last 12 months. Encouragingly, those that had received an appraisal found it useful:

"My last appraisal set work objectives for the coming appraisal period and led to me developing my skills (if required) to help me achieve those objectives."

64% positive (68% males and 57% females).

"My last appraisal accurately recorded how I had achieved against my work objectives over the preceding period and helped identify and manage any barriers to meeting those objectives."

73% positive (77% males and 64% females).

To improve these percentages the department has tied together the new promotion scheme introduced in 2014 with the appraisal scheme. Feedback from the new promotion process is now always shared with staff in their appraisal alongside a discussion about preparing for promotion.

ACTION 3.4 Introduce annual appraisals for all academic staff and ensure promotion opportunities and planning are included in the discussion.

The Ladies club members were in agreement that the promotion criteria are excellence in teaching, research, enabling and pastoral work, and that the current process is very fair, with no obvious bias towards men.

(ii) Induction and training – describe the support provided to new staff at all levels, as well as details of any gender equality training. To what extent are good employment practices in the institution, such as opportunities for networking, the flexible working policy, and professional and personal development opportunities promoted to staff from the outset?

All new staff have a thorough induction with the department HR Manager, their line manager and other relevant staff. Gender equality is covered as part of the mandatory online equalities training that all new staff have to do within their probation period. We have 100% completion rate from all new staff during their probation for the last 5 years.

Information on training and development is available to all staff via UCL's central HR website. An extensive list of courses, workshops and material are available together with schemes that are specifically designed to support women in academia such as Springboard Women's Development Programme.

The 2013 UCL wide survey revealed that overall, staff are reasonably satisfied with the development opportunities.

"I believe I have the opportunity for personal development and growth at UCL." 79% positive (80% males and 76% females)

"There are sufficient opportunities for me to receive training and development to improve my skills in my current job." 73% positive (75% males and 65% females)

(iii) **Support for female students** – describe the support (formal and informal) provided for female students to enable them to make the transition to a sustainable academic career, particularly from postgraduate to researcher, such as mentoring, seminars and pastoral support and the right to request a female personal tutor. Comment on whether these activities are run by female staff and how this work is formally recognised by the department.

There are now enough female CS academics to act as influential mentors. There is a culture of ongoing pastoral support for female students and any student can request a female personal tutor if she wishes. Our senior members of the department operate an open door policy for students. In all buildings there are student study areas close to academic offices so that students have the opportunity to meet staff informally on a regular basis. The department is now putting in place monthly Town Hall type meetings for all students led by the HoD or deputy HoD's. This is primarily to receive live and timely feedback. Follow-up actions will be implemented by the Senior Management Committee.

At the undergraduate level, all students have a personal tutor and take part in project work supervised by academic staff. The allocation of tutors and supervisors is managed carefully so that all students interact with both male and female staff. For group project work we have adopted a policy of appointing females as group leaders

on rotation with males so that both female and male students have the opportunity to take a leadership role. We have found this to be particularly valuable for female students in giving them additional confidence.

Organisation and culture

- a) Provide data for the past three years (where possible with clearly labelled graphical illustrations) on the following with commentary on their significance and how they have affected action planning.
- (i) Male and female representation on committees provide a breakdown by committee and explain any differences between male and female representation. Explain how potential members are identified.

	2012/13		2013/14		2014/15	
Committee						
Representation	Female	Male	Female	Male	Female	Male
External Advisory Board	3 (13%)	20	4 (19%)	17	6 (27%)	16
Senior Management Team	3 (25%)	9	4 (36%)	7	5 (42%)	7
Finance Committee	3 (30%)	7	4 (50%)	4	4 (50%)	4
Teaching Committee	3 (14%)	18	5 (24%)	16	4 (16%)	21
Research Committee	5 (29%)	12	5 (26%)	14	6 (29%)	15

Figure 18: Female and male representation on CS departmental Committees, 2012/13-2014/15.

Female representation on all Committees has been stable or rising steadily since 2012.

The External Advisory Board (EAB), established in 2003, formalises and facilitates dialogue between CS and potential research beneficiaries in industry. In our previous submission in 2012, there were only 3 women on the EAB. The department has recruited 3 additional women executives to the Board. So 3/11 are external members (including the chair), and 3/11 are internal members of CS. Four of its members are on our Athena SWAN SAT.

The Senior Management Team consists of the HoD, Deputy HoDs, Directors of Research, Studies, and External Relations, Finance and IT. Its meetings provide a forum for key staff to plan and define strategy and monitor progress. The meetings also act as a vehicle for communication. Four of its members are on our Athena SWAN SAT.

The Finance Committee has stabilised with an equal numbers of women and men, and two of its members are on our Athena SWAN SAT.

The Teaching Committee mainly comprises the 16 course leaders. The remaining members include the Head of the Department (HoD), the year coordinators and tutors. Three of its members are on our Athena SWAN SAT.

The Research Committee comprises academics who are Heads of Research Groups and the Industrial Partnerships Manager and Directors of other groups. Three of the members are on our Athena SWAN SAT.

(ii) Female:male ratio of academic and research staff on fixed-term contracts and open-ended (permanent) contracts – comment on any differences between male and female staff representation on fixed-term contracts and say what is being done to address them.

All our research staff are on open ended contracts with funding end dates, and all our academic staff are on permanent contracts. Although open ended contracts in practice work like fixed term contracts, research staff are eligible for all the same workplace benefits and opportunities as all other staff and are added to the UCL redeployment register prior to their contract ending. Often there are opportunities for funding extensions or bridging funding while Fellowship applications are being pursued. See Figure 9c.

- (b) For each of the areas below, explain what the key issues are in the department, what steps have been taken to address any imbalances, what success/impact has been achieved so far and what additional steps may be needed.
- (i) Representation on decision-making committees comment on evidence of gender equality in the mechanism for selecting representatives. What evidence is there that women are encouraged to sit on a range of influential committees inside and outside the department? How is the issue of 'committee overload' addressed where there are small numbers of female staff?

The main decision-making committees involved in the running of the Department are the Senior Management Team, The Finance Committee followed by the Research and Teaching Committees. These committees all have female representation, with the first two seeing female representation rising from 25% to 42% and 30% to 50% respectively in the last two years.

The Teaching Committee, which currently has 16% representation of women, is mainly comprised of the 16 course leaders within the department and currently there is only 1 female course leader. The SAT will explore ways of getting more women on the teaching committee either by persuading more female staff to be course leaders or by other means.

ACTION 4.1 Increase the representation of women on key department committees.

(ii) Workload model – describe the systems in place to ensure that workload allocations, including pastoral and administrative responsibilities (including the responsibility for work on women and science) are taken into account at appraisal and in promotion criteria. Comment on the rotation of responsibilities e.g. responsibilities with a heavy workload and those that are seen as good for an individual's career.

There is a standard teaching load defined for all academic staff that includes new staff, research active staff and teaching fellows. It defines the amount of lecture or lab based teaching to be done during the academic year, tutorial responsibilities and project supervision. By default a member of academic staff teaches the equivalent of two modules per academic year and supervises an average of 7 projects per year.

The allocation of specific teaching duties is organised by the Director of Studies but done collaboratively with HoG's and individuals. The key aims are to achieve a good balance of teaching in specialised and general subject areas, and to avoid the need for anyone to go above their defined load.

In allocating duties full consideration is made of individual situations. New staff have a reduced load initially, that ramps up over several academic years. Staff with specific time consuming administrative or research roles, or with personal needs, can request a reduced teaching load; all cases to date have been approved.

All academic staff participate in the tutorial system, which is primarily pastoral, and follows UCL policy. This allows the load to be fairly evenly distributed, with adjustments again made as needed. A similar approach is taken for administrative duties. Most posts are rotated on a three to five year basis.

We have not used formal workload models at a departmental level. Administrative duties are shared as evenly as possible, again with new recruits typically being shielded from these duties during their first year or two.

(iii) **Timing of departmental meetings and social gatherings** – provide evidence of consideration for those with family responsibilities, for example what the department considers to be core hours and whether there is a more flexible system in place.

Core meeting hours are between 10am and 4pm. Departmental and Group meetings are usually during the lunch hour when there is no teaching. Lunch is always provided during these meetings. Away Days are generally held over two days and are residential, with an option for staff to go home after day one and return on day two.

Social events such as receptions for visitors and distinguished lectures, run later, usually between 4pm and 6pm. These events are arranged well in advance to give staff the opportunity to arrange childcare if needed. The department also arranges an annual summer party outside office hours for all staff, who are encouraged to bring their partners and families including children.

An informal poll of the Ladies Group found all agreed that as long as the event is organised far in advance and there is time to arrange for childcare, socials after 4pm or away days are alright.

(iv) **Culture** – demonstrate how the department is female-friendly and inclusive. 'Culture' refers to the language, behaviours and other informal interactions that characterise the atmosphere of the department, and includes all staff and students.

The department has a family-friendly atmosphere, many staff members, both male and female, have children at home and openly make use of flexible working hours to attend school events for example.

We have good quality coffee machines, financed by the department and available for free to all staff. They provide focal points for social gatherings in the 3 buildings occupied by the department. This has encouraged mixing between groups and helped those less familiar with the department to feel welcomed and settled.

It was apparent from the survey that most members of the department appreciate the friendly and supportive atmosphere.

"I am treated with fairness and respect." 90% positive (91% male and 90% female)

"I think the department respects individual differences (e.g. cultures, working styles, backgrounds, ideas)." 95% positive (94% male and 100% female)

(v) **Outreach activities** – comment on the level of participation by female and male staff in outreach activities with schools and colleges and other centres. Describe who the programmes are aimed at, and how this activity is formally recognised as part of the workload model and in appraisal and promotion processes.

A very small proportion of girls choose to study computing in schools. In part this is because they are not taught that computing involves a fundamental set of skills underpinning most other subjects. Furthermore, the syllabus in schools has recently undergone a major shift from ICT (using software) to computing (creating software), a change which has left many teachers delivering subject matter for which they have little training.

In this environment we bootstrapped our ARRIVE activities in 2012, increasing events to the level at which we operate today. Two SAT members, Hailes (male) and Harbird (female), coordinate this. Harbird has special responsibility for outreach indicating the value that the department places on outreach-related work.

We have focussed on three major fronts:

- Strategic activities targeting those who influence the educational priorities for 9-18 year olds coupled with establishing a community of teachers in our locality.
- Outreach events for schools and other organisations providing services for young people. Mixed gender schools are asked to bring equal numbers of boys and girls to events.
- Engaging our undergraduates in producing teaching materials for schools to use.

Our activities in all these areas are extensive, a snapshot is given below.

Strategic Activities and Establishing a Teaching Community

Part of our vision involves sharing our knowledge and experience. We have heavily influenced the gender diversity strategy of UCL's FES with respect to outreach and we maintain links with teachers from all 10 secondary schools in Camden and beyond. Supporting the teaching community is important and holding periodic strategy meetings helps to ensure that we are delivering what schools need from our CPD programme and events. Twenty-one teachers attended our planning session in November.

In a broader context, our efforts are directed towards industry and foreign governments with the aim of promoting computing education and boosting the numbers of girls and women involved. We have had discussions with Morgan Stanley, Cisco and the Education Department of the UAE. We are due to visit the Gibraltarian Education Minister in December.

Outreach events for schools and young people

A snapshot of activities since October 2014 shows:



Figure 19. Camden Coding Competition 2015: the Maria Fidelis team collecting their medals.

- For the 12 smaller events (up to 30 attendees), 66% of the 233 attendees were female.
- For the 3 larger events (60 100 attendees each), 75% of the 230 attendees were female.



The CS department offered summer internships to three young women and one young man. The image was created by one of our In2Science students. The colour of the LEDs on an Engduino changes with variations in the natural phenomena being sensed.



Hailes and Harbird are part of the teaching team that deliver the UCL and Dyson Summer Workshop, now an annual event. The attendees, aged 17 and 18, are asked to redesign the wheelchair. 50% of the participants are women.

Teaching materials for schools.

Harbird works with all our first year undergraduates to produce teaching material suitable for the classroom. We ensure that as many female undergraduates as possible are assigned to the girls' and co-educational schools we work with so that pupils in schools are aware that Computing is a subject that women enjoy and excel in. The projects are available at: uclcsschoolslab.com.

ACTIONS 1.1 – 1.4 All address increasing the low numbers of girls interested in CS.

Flexibility and managing career breaks

a) Provide data for the past three years (where possible with clearly labelled graphical illustrations) on the following with commentary on their significance and how they have affected action planning.

(i) Maternity return rate – comment on whether maternity return rate in the department has improved or deteriorated and any plans for further improvement. If the department is unable to provide a maternity return rate, please explain why.

Maternity	Return	Rate		
Year	2010/11	2011/12	2012/13	2013/14
Return Rate	1/1	1/1	1/1	0/0

Since 2007 our department has experienced a 100% return rate following maternity leave. The numbers of female staff taking maternity leave is relatively small, however all are supported to return to work, see Case Study 1.

(ii) Paternity, adoption and parental leave uptake – comment on the uptake of paternity leave by grade and parental and adoption leave by gender and grade. Has this improved or deteriorated and what plans are there to improve further.

In 2014 the department set up a formal HR process for fathers taking paternity leave rather than arranging informally with line managers. We believe that this will enable us to track the data on paternity leave. Between 2011 and 2015 four new fathers took paternity leave.

UCL offers 4 weeks full pay paternity leave – this is double the national requirement.

(iii) Numbers of applications and success rates for flexible working by gender and grade – comment on any disparities. Where the number of women in the department is small applicants may wish to comment on specific examples.

The department has a very flexible approach to work arrangements which can be arranged both formally and informally. We do not hold a record of applications for flexible working. Most employees discuss this with their line managers and a dedicated HR member of staff.

Based on our discussions with staff involved we believe that this arrangement is working for all. This is also confirmed by our survey results:

"My working time can be flexible." 97% positive (97% male and 96% female)

"As long as I get my work done, I have a choice deciding how I do my work." 96% positive (97% male and 91% female)

- b) For each of the areas below, explain what the key issues are in the department, what steps have been taken to address any imbalances, what success/impact has been achieved so far and what additional steps may be needed.
- (i) **Flexible working** comment on the numbers of staff working flexibly and their grades and gender, whether there is a formal or informal system, the support and training provided for managers in promoting and managing flexible working arrangements, and how the department raises awareness of the options available.

Flexible working is arranged both formally and informally within the department so accurate numbers are not available. Based on numerous individual examples and excellent survey results as shown above, our department has a very good record in supporting flexible hours.

For example, we interviewed a PhD student who was working flexible hours after maternity leave, and an academic-track SAT member (Drobnyak). Both were actively encouraged by their line managers and professional staff to take as much time and leave as needed to accommodate their family needs.

A teaching-track SAT member (Roberts), had assumed caring responsibilities for his elderly parents that made it difficult for him to schedule time to attend conferences and workshops. Through the appraisal process with his HoD, it was agreed that moving to the teaching track would provide him the flexibility he needed. He is happy to have made this career change and now has a senior post as Director of Studies.

(ii) Cover for maternity and adoption leave and support on return – explain what the department does, beyond the university maternity policy package, to support female staff before they go on maternity leave, arrangements for covering work during absence, and to help them achieve a suitable work-life balance on their return.

Before going on maternity leave, staff have a number of options to choose from in order to make the pregnancy period more manageable. For example they can work from home if travelling becomes difficult. Early on staff discuss with their line manager the start/end date of their maternity leave, cover during the time they are gone, and any other general support requirements. Once they are back at work, flexible or part time work hours are in place to help with the transition.

In order to help maternity returners get back up to speed with their work and as part of the ADVANCE actions, the Department set up a Post-Break Award in 2012. The award is designed to provide grants after large breaks, such as maternity leave. It has a value of £10,000 and is meant to help with getting the awardee's research back up to speed once the leave has finished. In the last 3 years the award has been given 4 times to all maternity returners.

The department will continue the Post-Break award.

As one returner commented:

"I used my Post Break award to hire a research assistant for 4 months, which helped me close on the gap on my research made by my maternity leave."

In CS there are easily accessible designated areas for breast feeding and baby changing in the building. The breast feeding room has a breast feeding chair and a refrigerator for milk bottles.

Most importantly in CS there is an informal network of peer mentoring support for maternity returners from those who have also returned or more generally from academics who are raising a family and continuing their academic careers.

5. Any other comments: maximum 500 words (461)

Please comment here on any other elements which are relevant to the application, e.g. other STEMM-specific initiatives of special interest that have not been covered in the previous sections. Include any other relevant data (e.g. results from staff surveys), provide a commentary on it and indicate how it is planned to address any gender disparities identified.

The following describes additional CS Athena SWAN Beacon activities that reach out to people outside UCL's CS department.

Consultancy on diversity.

In 2014 our Athena SWAN Champion (Butler) was contacted by the VP of Diversity at Morgan Stanley (an industrial partner of the department). This led to a consultancy session where we looked at how our AS plan and execution could be applied to Morgan Stanley. This was followed by a half day training provided by 3 members of the SAT team to enable the IT department of Morgan Stanley to begin to run more effective outreach events with their link schools. It is anticipated that this work will be expanded to other financial companies in the city who are part of an outreach network, thereby scaling up the outreach activities and increasing significantly the numbers of girls positively impacted. HSBC are already in discussions with the CS department.

ACTION 5.1 Expand consultancies on diversity in industrial companies.

Athena SWAN workshops

Since 2014 our Athena SWAN Champion (Wardle) has been a speaker and panellist at two external workshops encouraging STEMM Departments to apply for AS awards. The first workshop, in December 2014, was organised by John Clark (U. York) in conjunction with the BCS Academy, and concentrated on CS departments applying for a Bronze award, with the secondary aim of fostering positive collaborative support in developing a CS Athena SWAN community. The 2nd workshop, in

November 2015, was organised by John Clarkson (U. Kent), in conjunction with the London Mathematical Society (LMS), and focused on Mathematics departments applying for a Silver award.

ACTION 5.2 Increase voluntary support for other UCL departments and universities in their Athena SWAN award applications.

London Hopper

Since 2013 our Athena SWAN Champion (Wardle) and first ASPIRE leader (Romualdo-Suzuki) have been part of the UCL organising team of the London Hopper Colloquium, an annual all day event that welcomes about 50 early career female researchers in computing drawn from across the UK. The attendees hear a variety of female academic and industrial speakers, some at the beginning of their careers and some at very senior levels. Perhaps the most important aspect of the Colloquium is the unique opportunity it presents for attendees to meet and network with other early career female researchers in computing. London Hopper receives financial support from the UCL CS department, IBM and the BCS Academy.

The London Hopper Colloquium will continue to be offered each year.

Karen Spärck-Jones Lecture

Since its inception in 2011, our Athena SWAN Champion (Wardle) has been the academic liaison to the annual Karen Spärck-Jones (KSJ) Lecture that showcases the work of senior women in CS research. The KSJ Lecture, a free event, is held in the evening in the same BCS venue as London Hopper, and also receives financial support from the UCL CS department, IBM and the BCS Academy.

Wardle will **c**ontinue acting as academic liaison for the Karen Spärck-Jones Lecture each year.

6. Action plan

Provide an action plan as an appendix. An action plan template is available on the Athena SWAN website.

The Action Plan should be a table or a spreadsheet comprising actions to address the priorities identified by the analysis of relevant data presented in this application, success/outcome measures, the post holder responsible for each action and a timeline for completion. The plan should cover current initiatives and your aspirations for the next three years.

7. Case study: impacting on individuals: maximum 1000 words (816)

Describe how the department's SWAN activities have benefitted **two** individuals working in the department. One of these case studies should be a member of the self assessment team, the other someone else in the department. More information on case studies is available in the guidance.

Ivana Drobnjak (SAT member)



I have been a Lecturer at UCL's Department of Computer Science (CS) since January 2015, having joined the department in 2009 as a Postdoctoral Researcher with 3 year funding from the EPSRC project grant of my supervisor. In 2012 I was awarded a 3-year Leverhulme Trust Fellowship and one of the key steps for me after becoming a Fellow was to be considered by CS for the position of Proleptic Lecturer, which would guarantee me a lectureship at the end of my fellowship. This went through in 2012 which meant that I did not have to apply for permanent jobs elsewhere, did not have to move locations, and hence could spend some time focusing on starting my family without these additional stresses.

I now have three children, Nina (4 years old) and twins Alex and Marianne (2 years). The Department has been extremely supportive throughout, enabling me to develop both my career and maintain my family life. In addition to the excellent structure that encouraged my career path, the CS department has been an extremely friendly and supportive place to have children. I took 2 fully paid maternity leaves for both my pregnancies and was advised by the very friendly administrative staff throughout. I also always felt that my having a baby was looked upon with kindness and shared excitement. My colleagues at the department were very friendly and supportive. After both maternity leaves I chose to work full time, but had quite a few days working from home when the babies were not well. Everybody was very comfortable with this arrangement.

The Department's Post-Break award of £10,000 for people who are coming back from a prolonged break was enormously helpful. I received this after both my maternity leaves and could afford to hire a research assistant for a few months to get up to speed with my research. These support mechanisms had been put in place with the strong support of our Head of Department (HoD) who was instrumental in finding funds for the Post-Break award, in encouraging Proleptic Lectureships, and in general always being there to hear and support new ideas.

As part of our Athena SWAN activities, I organise monthly Ladies Tea-time socials in the Department and hear lots of stories from other female academics who always praise the department for enabling work-life balance, for encouraging high quality research and teaching over grant applications, and for caring about science, quality of life and sustainable harmonious solutions. I believe that it is this attitude and the department's support that enhances our quality of life and makes the department a very female-friendly place to work.

Licia Capra (non-SAT member)



I joined the Department of Computer Science at UCL as a Lecturer in 2005, and was promoted to Senior Lecturer in 2009, Reader in 2012, and Professor in 2015. I always found the college-wide promotion process very transparent, the criteria clear, and the department very supportive and helpful. However, something has changed over the years, which I found extraordinary.

I remember back in the autumn 2008 approaching the Head of Department, to ask whether he would support my case for promotion in the upcoming promotion round. He asked me to send him my CV, and we then had a very constructive 1-to-1 meeting, at the end of which he enthusiastically said he would support my case. I

submitted my case for promotion in November 2008, and was promoted to Senior Lecturer effective October 2009. The whole process felt fair, transparent, and the overall experience was very good. What happened for two subsequent promotion rounds I went through was even better.

For the past few years, the department has put in place a process whereby, each autumn, every member of the research/academic staff has to prepare their CVs and send them to their Head of Research Groups (HoRGs). During a meeting with the Head of Department and all HoRGs, everyone's case/CV is discussed. Individuals who are deemed ready for promotion are then encouraged to prepare a full promotion case and submit in that year's round of promotions. Those who are considered not yet ready for promotion are given constructive feedback on what areas need strengthening, to move forward.

I personally found this procedure extremely positive. First, I received constructive feedback from experienced colleagues every year on whether I was progressing well with my career and what areas needed improvements. Second, I did not have to make a judgement call all by myself as to whether I was ready or not for promotion (and then approach the Head of Department to ask him to support my case). Rather, more experienced colleagues looked over my CV and collectively assessed whether they thought I was ready. In the end, I went for promotion to both Reader and then Professor at least a year earlier than I would have, had I made the call solely by myself.

Current (2015) Action Plan

Please note after receiving our Bronze Award in 2012 we designed a strategic framework encompassing all our old and new Athena SWAN activities.

This framework is organized around four sets of activities:

ARRIVE – attracting girls aged 9-18 to CS

ASPIRE – supporting our female students throughout their academic experience

ACHIEVE – encouraging our female undergraduates to get top degrees

ADVANCE – increasing numbers of female academics

	Issue and Area for Action identified	Actions taken and Progress as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
		1.	Outreach Activities - ARRIVE			
1.1	ARRIVE Low numbers of schoolgirls interested in CS.	We have targeted those who influence the educational priorities for 9-18 year olds coupled with establishing a community of teachers in our locality. We started with links to 10 secondary schools in the locality which has now grown to 15. We have held outreach events in collaboration with industry partners such as Facebook creating lesson plans and teaching strategies for many teachers.	We will sustain the links to these fifteen secondary schools in the locality. We will expand our educational material and influence over CS education nationally through work with the BCS and industry partners.	Outreach programme is active throughout every academic year.	Steve Hailes and Rae Harbird.	Links to the 15 secondary schools in our locality maintained. All outreach requests from schools actioned and fulfilled by UCL staff and students involved in outreach. A summer school held each academic year for secondary school pupils in collaboration with industry. Always with equal numbers of boys and girls.

	Issue and Area for Action identified	Actions taken and Progress as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
1.2	ARRIVE Low numbers of schoolgirls interested in CS.	We have held outreach events with mixed gender schools and all were asked to bring equal numbers of boys and girls. Established an undergraduate student special interest group (SSIG) specifically for outreach to help with scaling up activities.	Mixed gender schools will be asked to bring equal numbers of boys and girls to events. We will increase the number of outreach events for schools and other organisations providing services for young people by having the SSIG lead on both outreach training events conducted at schools and hosted at UCL.	Outreach programme is active throughout every academic year.	Steve Hailes and Rae Harbird.	Mixed gender schools bring equal numbers of boys and girls to every event.
1.3	ARRIVE Low numbers of schoolgirls interested in CS.	We have engaged all our first year undergraduates (approx. 20% female) in producing teaching materials for schools to use and this activity has been made mandatory in their educational programme. Some of these students are also part of the SSIG above.	We will continue to engage our first year undergraduates in producing teaching materials for schools to use.	All student activities are conducted every academic year. Conduct survey of teachers each year starting in 2016.	Steve Hailes and Rae Harbird.	UG students produce quality teaching materials for schools to use as measured by positive feedback from teachers.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
1.4	ARRIVE Low numbers of schoolgirls interested in CS. We have collected and analysed CS Open Day attendance data and have seen a rise from 12% in 2012 to 17% in 2015 in the proportion of young women attending. We have targeted female applicants by using female student ambassadors, by grouping female applicants together and allocating them a female student ambassador, and featuring as many female students and staff in our promotional material as possible.		We will monitor attendance of girls attending CS Open Days. We will survey attendees to see if any of our ARRIVE activities were the reason they attended the Open Day.	Data collection will begin in early 2016 and will be analysed annually.	John Shawe-Taylor and Sarah Clegg (Undergraduate Administrator).	2% increase in girls attending CS Open Days each year. Links to our ARRIVE activities verified or other reasons for attendance discovered.
		2. Support fo	or female students – ACHIEVE a	nd ASPIRE		
2.1	ACHIEVE Increase the number of service and industry-based real world projects for UG students.	A mobile platform called "Placed" that will allow a broader range of our industrial partners to offer project work to UG, is in pilot phase as of November 2015. In the past 5 years 14 new companies, charities and hospitals have begun to offer student projects. All existing and new partners providing student projects are being migrated to the new platform.	Move the 'Placed' platform into full operation by end of 2016.	Recruit new companies, charities and hospitals to use the new platform starting in 2016	Jane Butler and Graham Roberts	Number of service and industry-based projects for students increases by 5% each year.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned Time frame		Responsibility	Success Measures
2.2	ACHIEVE Increase the number of service and industry-based real world projects for UG students at other universities.	A mobile platform called "Placed" that will allow a broader range of our industrial partners to offer project work to UG, is in pilot phase as of November 2015.	After the 'Placed' platform is in full operation, estimated to be by end of 2016, offer it to other universities as a way to lead this activity across all universities who want to pursue a similar model to UCL.	Introduce "Placed" to other universities in 2017-2018 and assist in their deployment of the platform.	Jane Butler and Graham Roberts	At least 3 other universities will have installed and be using "Placed" for UG industry projects as part of the curriculum by 2018.
2.3	ACHIEVE and ASPIRE In 2013/2014 there was an increase followed in 2014/2015 by a decrease in our actual and percentage completions for female PGT students.	We have discussed this with our PGT administration team and they have begun to analyse the data to establish the reasons for this. This will provide insights into actions we need to put in place.	Identify the root causes of the swings in data for PGT completion numbers. Conduct surveys of and hold focus groups with PGT students.	Survey and/or focus groups will be held during Spring term 2016.	Graham Roberts	Analysis has been completed and an action plan to address any necessary issues is in place by May 2016. Good practice in PGT programmes with lower female completions rolled out in 2016/17.
2.4	ACHIEVE and ASPIRE Now that we have met our goals for UG students in ACHIEVE and ASPIRE, we will expand the scope of these two initiatives to include actions for female PG students.	See actions taken and outcomes described in Actions 2.3 and 2.5-2.9.	Develop an ACHIEVE and ASPIRE programme for postgraduate students (PGT and PGR).	PG student matters will be discussed at SAT meetings and actions put in place starting in 2016.		An ACHIEVE and ASPIRE programme for PG students is in place by May 2016.
2.5	ACHIEVE and ASPIRE In 2014/2015 we saw a slight drop in our offers to acceptances for female PGT students.	We have discussed this with our PGT admissions team and they have begun to analyse the data to establish the reasons for this.	Examine selection processes of all PGT programmes in 2014/15 to understand why there was a drop in offers and acceptances to female PGT students.	Data will be analysed by April 2016 and an action plan will be put in place.	Graham Roberts	Analysis has been completed and an action plan is in place by May 2016. Good practice for female PGT student admissions in place for 2017/18.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
2.6	ACHIEVE and ASPIRE Provide financial support for women taking a CS Masters degree, either after graduation, after a few years in industry or when returning to work after having a family.	Start-up Graduate Support scheme supported by HEFCE was put in place in 2014. All 7 female awardees successfully completed their MSc course in 2014.	Work with our industrial partners to continue and grow our Graduate Support Scheme for female PGT students. Ramp up active discussions to gain their commitment to the Scheme.	From 2016 to 2018 undertake active discussions with our industry partners.	Jane Butler	An industry-funded Graduate Support Scheme is in place.
2.7	ASPIRE Identify funds to support female CS students to attend conferences and workshops.	Both external and departmental funds have been acquired to send students to national and international conferences.	Athena SWAN team to continue to obtain funds to sponsor female CS students to attend conferences and workshops. Publicise to all students each year via the CS dept. web pages and UCLWE webpages.	Fund-raising and budget planning to start at the beginning of each academic year.	John Shawe-Taylor and Jane Butler	At least 2 students sponsored to attend conferences each year.
2.8	ASPIRE Help UG and PG students to maintain peer social and networking activities.	UCLWE was established by our ASPIRE leader in 2013. Between 2013 and 2015, 21 events were organised. A UCLWE CS Chapter was also established in 2013. Two popular CS career events were led by Google and Facebook. Welcome event in October, 2015 drew 50 attendees.	UCLWE/CS Chapter to continue organizing career events women in CS with at least 1 event per term. UCLWE to continue organising social and career events for women in the Faculty of Engineering Sciences with at least 2 events per term.	Activities delivered throughout each academic year.	Manisha Verma	UCLWE and UCLWE/CS hold at least 6 events per year, 2016 - 2018. UCLWE/CS will run at least 2 career events per year.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
2.9	ASPIRE Help PGR students to expand their peer social and networking activities for all PGR students. First 2 activities of PGR networking and social programme held in 2015. Support provided by the HoD with departmental funds.		Provide a permanent dept. fund to enable the PGR students to expand their networking and social programme ensuring a strong peer group offering mutual support.	PGR activities continue all year.	Manisha Verma and Anthony Hunter (Graduate Tutor).	Established PGR networking and social programme liked by PGR students as measured by positive feedback from surveys and/or focus groups.
		3. Support for st	aff at key career transition poin	ts - ADVANCE		
3.1	1 ADVANCE Total number and proportion of female academics in the CS dept. are small. Since 2012 ADVANCE has used the Proleptic Lectureship Scheme to increase the number of female lecturers. Alongside this the CS dept. has successfully recruited female academics from outside UCL.		Continue to examine Proleptic Lectureship appointments as part of the career development of staff in CS each year, together with active departmental recruiting from outside UCL. Recruiting activity takes place each year.		Ivana Drobnjak and John Shawe-Taylor.	3 female academics appointed over next 3 years either via the Proleptic Lectureship scheme or from outside UCL.
3.2	ADVANCE Provide female postdocs opportunity to meet informally female academics in the department.	Female academics agreed to invite postdocs to join a Ladies social meeting once a term.	Extend invitation to all Postdocs to join a Ladies social meeting once a term.	First invitation to be sent in early 2016 and once a term thereafter.	Ivana Drobnjak and Guy Lever.	Postdocs attend Ladies social meeting once a term with positive feedback from survey of postdocs attendees.
3.3	ADVANCE Put in place an annual Fellowship training workshop open to all CS PhD's and Postdocs. The ADVANCE team alongside current CS Research Fellows are designing Fellowship training for PhD students and Postdocs on how to succeed in gaining a Fellowship.		Establish Fellowship training and advertise it to all PhD students and Postdoc's.	First training to be offered in 2016/17 academic year.	Ivana Drobnjak.	One Fellowship workshop successfully completed and with positive feedback from survey of attendees.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
3.4	ADVANCE Introduce annual appraisals for all academic staff and ensure, as part of that, that promotion opportunities are discussed annually.	The new promotion process has been successfully introduced in CS. It is also now linked to and discussed at every academic staff appraisal.	Increase the target frequency of appraisals for academic staff to annual. Conduct surveys of academic staff to monitor levels of satisfaction with appraisals.	Annual appraisals start in 2016. Survey of female staff on satisfaction with appraisal to start in 2016	John Shawe Taylor	Annual academic appraisals in place. Completion rates up from 69% to 80% by 2018. Surveys indicate that proportion of female staff satisfied with their appraisal is increasing.
3.5	ADVANCE Ensure that recruitment process remains free from bias. SWAN Champion (Wardle) e organized the first unconscious bias workshop for the CS dept. in early 2015. UCL's Head of Equalities and Diversity conducted this first workshop. Out of 11 attendees (4 female, 7 male) there were 5 HoG's.		Hold unconscious bias workshops for the CS dept. in 2016 and 2017 be offered ead with the goal of all HoG's having attended a workshop. 1 workshop to be offered ead year starting in 2016.		John Shawe Taylor and Caroline Wardle	All 11 HoG's have attended an unconscious bias workshop.
		4. Organis	ation and Culture			
4.1	Increase the representation of women on key dept. committees.	In 2015 the % of women on the 4 key dept. committees was 42% on Senior Mgt, 50% on Finance, 29% on Research, and 16% on teaching. The Teaching Committee, which has the lowest representation, is mainly comprised of the 16 course leaders within the department and currently there is only 1 female course leader.	Explore ways of getting more women on the teaching committee. Either persuade more female staff to be course leaders or get a greater representation of women on the teaching committee by other means.	Analysis of options starts in 2016.	Graham Roberts	Representation of women on the teaching committee increases.

	Issue and Area for Action identified	Actions taken and outcome as of November 2015	Further Actions Planned	Time frame	Responsibility	Success Measures
		5. Other Ad	ctivities			
5.1		SWAN Champion (Butler) was consulted in 2014 by Morgan Stanley (MS) to see how our Athena SWAN plan and execution could be applied to the company. Members of the Athena SWAN team then ran a workshop with the MS IT dept which enhanced and broadened their outreach work at their link schools.	We aim to expand this type of consultancy to other financial companies in the city who are part of an outreach network. This will enable a scaling up of company's outreach activities and increasing the numbers of females positively impacted.	Activities can occur at anytime of the year.	Jane Butler	On average one voluntary event per year.
5.2	Support other UCL departments and universities in their Athena SWAN award applications.	SWAN Champion (Wardle) has been a speaker and panelist at two external workshops (2014, 2015) encouraging STEMM Departments to apply for Athena SWAN awards.	Helping other UCL departments and universities in their Athena SWAN award applications will increase from 1 to 2 events per year.	Activities to start in 2016.	Caroline Wardle	On average 2 voluntary events per year.

KEY	
SSIG	Student Special Interest Group
CPD	Continuing Professional Development
HoD	Head of Department
HoG	Head of Research Group
PG, PGR, PGT	Postgraduate student, Research, Taught
UCLWE	UCL Women in Engineering
UG	Undergraduate student

Previous (2012) action plan with outcomes

Please note: After receiving our Bronze award in 2012 we designed a strategic framework encompassing all our old and new Athena SWAN activities.

This framework is organised around four sets of activities:

ARRIVE - attracting girls aged 9-18 to CS **ASPIRE** - supporting our female students throughout their academic experience

ADVANCE - increasing numbers of CS female academics **ACHIEVE** - encouraging our female undergraduates to get top degrees

As a result, some ongoing 2012 actions have been amended and included in our 2015 action plan.

	Description of Action	Further Action Planned at November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
	1. Baseline Data and Supporting Evid	ence						
1.1	Monitor UG student data: applications, offers, acceptances, progression (particularly on programming modules), degree classification	Continue to monitor, set up data collection systems where lacking	Current data not complete	Teaching committee, ASWG	Annual	Jan-13		Achieved. Data collection systems set up. UG % above national average. Higher % upper class degrees now awarded to females than males. Monitoring is ongoing in ACHIEVE.
1.2	Monitor PG student data: applications, offers, acceptances, progression and achievement	Continue to monitor, set up data collection systems where lacking	Current data not complete	Teaching committee, ASWG	Annual	Jan-13	Higher percentage of females at	Achieved. Data collection systems set up. Most of PG % are increasing. Scope of ACHIEVE widened to include ongoing monitoring of PG student data. See Silver Action Plan 2.3 - 2.5.
1.3	Monitor staff data: appointments, fellowships, promotions, pay awards	Continue to monitor, set up data collection systems where lacking	Current data not complete	ASWG	Annual	Jan-13	Higher percentage of females at	Partially achieved. Data collection systems are set up. % of female lecturers and professors has increased over past 3 years. There are few discretionary pay awards and we chose not to analyse these. Ongoing activity in ADVANCE.
1.4	Monitor numbers of female staff on departmental committees	Continue to monitor	Current data not complete	ASWG	Annual	Jan-13		Achieved. Female membership stable or increasing. SAT aiming for higher representation, see Silver Action 4.1.
1.5	Run staff and student surveys focusing on positive and negative experiences within the department	Continue to monitor	To begin when AS Champion in post	ASWG	Annual	Mar-13		Achieved. Dept. runs UG surveys and staff focus groups. UCL runs biennial staff survey (2013, 2015) and the 2015 data will be available in Spring 2016. The SAT will continue to analyse the UCL biennial survey data as well as run annual surveys and focus groups under ACHIEVE and ADVANCE.

	Description of Action	Further Action Planned at November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
	2. UG and PG Students							
2.1	Review the representation of women in all department publications both online and offline, aiming for 50% representation.	Conduct review	To begin when AS Champion in post	ASWG + AS Champion	Annual	Mar-13	Representation of females increases	Achieved. For prospectus updates, brochures and web pages which are most of our publications, the representation of females to males is at least 50:50, for research/impact publications not less than 30:70.
2.2	Ensure representation of women at Open Days brought up to 50%	Working with Open Day organiser to recruit student ambassadors and have more female speakers. Produce leaflets & posters targeting female applicants.	First open day taking feedback into account held November 2012	ASWG + AS Champion	Review quarterly	Nov-12	Representation of females increases	Partially achieved. Female representation has increased from 12% in 2012 to 17% in 2015. Female student ambassadors are used when available, and female students and staff are featured in promotional material.
2.3	Provide Scholarships for female students within the department		Awaiting approval of funds	HoD	Review Annually	2013	Scholarships provided	Achieved. Goal modified to include external sources of scholarships. 7 HEFCE-funded scholarships for females in MSc programme awarded in 2014. See Silver Action Plan 2.6.
2.4	Promote and encourage applications for both internal and external awards to female students	Page on Women@CS website listing awards	To begin when AS Champion in post	ASWG + AS Champion	Review 6 monthly		Number of females gaining awards increases	Achieved. Since 2012/13 the % female UG receiving internal awards has increased from 19% to 46%. PG students have received external awards including Intel Doctoral Student Honour Award, M H Joseph Prize of the British Federation of Women Graduates, and several Google Scholarships to attend the Grace Hopper Celebration of Women in Computing in the U.S. Work is ongoing in ACHIEVE.
2.5		· · · · ·	To begin when AS Champion in post	AS Champion	Ongoing	Mar-13	Number of positive stories increases	Achieved. The CS Athena SWAN web site has examples of achievements of female students.
2.6	Run female focused events that promote and encourage students and faciliate networking between students and staff	Caroline Wardle who has	• • • • • • • • • • • • • • • • • • • •		Ongoing	Mar-13	Female focused events run	Achieved. London Hopper runs annually with long-term funding secured by Athena SWAN champion. UCLWE, established by ASPIRE leader, offers variety of events for CS students. Activities are ongoing under ASPIRE.

		Further Action Planned at						
	Description of Action	November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
2.7	Set up a mentoring program for female students	,	To begin when AS Champion in post	Teaching committee, ASWG	Set up in 2013		Students mentored, students surveyed before during and after to ensure any issues dealt	Partially achieved but type of mentoring changed. As a result of discussions with students, UCLWE has set up peer mentoring under ASPIRE. Dept. to expand the PGR networking and social programme, see Silver Action Plan 2.9.
2.8		Discussions ongoing with ASWG and Year 1 Tutor		UG tutor	Annual		Real world content in first year	Achieved. Dept.revised method of teaching UG courses to include real world problems. This strongly influenced the Integrated Engineering Programme rolled out to Faculty of Engineering Sciences.
2.9	Offer short summer course for incoming students in problematic areas.	Discussions ongoing with ASWG and Year 1 Tutor		UG Tutor	Set up in 2013	Summer	Progression and final classification closer to that of male students.	Achieved but through different actions in ACHIEVE. Classification goal achieved through changing curriculum and adding student support activities.
2.10	Summer Course to support ICT teachers transitioning to CS and promote CS as a choice for girls.	Implement first course in		Director of Studies	Set up in 2013		More female applicants of high	Achieved. 11 training sessions provided for teachers (8 female and 6 male) 2014-2015 under ARRIVE. Goal changed since ARRIVE is focused on contributing to the nation as a whole, not on attracting students to UCL. Activities ongoing.
	Review strategies for increasing female students degree classification, review assessment process to see if a focus on more coursework-based assessment would help	ASWG investigating with teaching staff		UG Tutor	Annual		classification closer to that of	Achieved but method changed under ACHIEVE. % female UG gaining 1st class degrees now exceeds that of males.
2.12	Introduce Conference Days for secondary school pupils, Year 9 and Year 12	•	The planning stage is already	Director of Studies	Annual		Increase of the number of applicants from those schools that were present at the	Achieved. 3 conference days were offered in 2014, 6 in 2015. UCL UG students developed teaching material used in schools. They also developed a UCL website containing best projects, promoted on the Computing At School portal which has 18,000 teacher members. Goal changed since ARRIVE is focused on contributing to the nation as a whole, not on attracting students to UCL.

		Further Action Planned at						
	Description of Action	November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
								Achieved: goal enhanced. In ARRIVE we have
								expanded the local community of schools we
								engage with. Since 2012 we have built
								significant outreach activities with 15 Camden
			We so far have have a strong					secondary schools, including UCL Academy,
			link with the Headly					and now reach many more schools through
			Grammar School Head					the BCS CAS Hub. We work directly with all
		l '	teacher. One of our AS team					headteachers and teaching staff at every
	Create links with more secondary school	•		Director of			Increase in number of schools	school supporting them with lesson plans and
2.13	headteachers	we know would be interested.	presentation	Studies+ASWG	Ongoing	Nov-12	we are connected to	classroom projects.
		Explore the feasibility of						
		creating the link between the						
		UG students and both the						Achieved. 5 Saturday coding clubs were run
		schools they originate from and	Very early stages. So far just	Director of				using UG students as teachers as part of
2.14	2nd year UG doing projects in schools		an idea.	Studies			Links established	ARRIVE.
		In order to increase tha						
		awareness of pupils of the						
		variety of careers in computer						Achieved. We have created links between
		science, having connections both with the academia and						Morgan Stanley, HSBC, Cisco, Intel and BUPA
			We have generated an					and many schools. We have undertaken
		our exisiting strong links with	interest and got approval					training/coaching of staff at these companies
		the industry we can act as a	from our industry partners					in order for them to go out and work with
		•	to act as a broker.	HoD + Deputy	Ongoing	Nov-12	Relationships established	their link schools. See Silver Action Plan 5.1.
		we aim to improve and extend		Под профису	5858		nerationismps established	arien min seriesisi see sirvei 7 teater 7 teater 7 teater 7
		the scheme by increasing the						
		number of project topics,						
		allocating extra departmental						
		funding to encourage both						Achieved. Over the past 3 years, of 10
		academics and students and						summer research Internships awarded to CS
		finally, to have the process						students, 2 went to females (3 applicants),
			The basic system is already					and 8 went to males (16 applicants). The dept.
			put in place. There are					is now running an information event each
		project days during which the academics/research staff would	several projects that					year to present the scheme to students and to
			and these are advertised on			Summer		get former interns to describe their
2.16	•	l' '		UG Tutor	Ongoing		Internships established	ľ
2.10	the academic stall	students.	our wenhages.	יטט זענטו	Ongoing	2013	internsinps established	experience.

	Description of Action	Further Action Planned at November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
	3. Key Career Transition Points, Trans			,				
3.1	Ensure that females are encouraged to apply for positions within the	To be actioned by ASWG early 2013		UCL-HR	Ongoing	Mar-13	Advertisements for positions in	Achieved. In every advertisement the dept. includes a statement about its Athena SWAN Bronze award, and its commitment to addressing gender equality. Dept. continues to actively recruit from outside UCL.
3.2	Ensure that females coming back from maternity leave can get back up to speed quickly with their work	Ongoing	provide grants after periods	or Head of Research Group as appropriate in collaboration with	Annual	2012	Post-break award is taken up	Achieved. The Post break Award has continued every year. All 4 female returners to work from maternity leave since setup have received the award. The award scheme is continuing.
3.3	Set up a mentoring program for female staff with a focus on achieving their potential	Review of exisiting programs before deciding on program to implement		ASWG working with HoD	Annual	2014	and after to pick up issues and	Partially achieved. Goal changed after feedback from female academic staff indicated they did not want formal mentoring. ADVANCE has set up monthly social events.
3.4	Formalise a talent spotting process to highlight females with potential and give them appropriate advice/coaching	Review of exisiting programs before deciding on program to implement		Line manager/PI or Head of Research Group as appropriate working with ASWG	Annual	2014	Framework set up to formalise the process reporting in to the	Achieved. ADVANCE has dept. approval plus funding from the HoD to provide Fellowship training for postdocs and PhD students. Ongoing activity of ADVANCE.
3.5	Ensure that female staff are aware of promotion criteria and application information and encouraged to achieve their potential	Dedicated session planned at staff awayday March 2013	awayday in April 2013. Special attention will be paid	Line manager/PI or Head of Research Group as appropriate working with ASWG	Annual	Mar-13		Achieved. Promotion prospects are discussed by HoD or HoG in annual appraisals.
	4. Career Advice and Support							
4.1	Promote success stories from the department of achieving work life balance	Set up department blog		AS Champion	At least monthly updates	Feb-13	Success stories highlighted on the department blog and social media channels and if appropriate externally too	Achieved. Several members of the dept. including the CS senior mgmt team post information on social networks.
4.2	Encourage and support female staff who wish to take part in high profile media activities	Include a blog post about this and contact all relevant staff asking if they would like to participate		AS Champion	Annual	Apr-13	Annually invite female staff to put themselves forward for media training, mentors to encourage female staff to apply	Achieved. Female staff are encouraged to take media training provided by UCL's Media Relations. A call goes round to staff every year.

		Further Action Planned at						
	Description of Action	November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
4.3	Set up mentoring specifically for women before, during and after going onto maternity leave	as 3.3		Line manager/PI or Head of Research Group as appropriate working with ASWG	Annual			Not achieved. Goal modified. An informal network of females in CS either taking or returning from maternity leave has shown to be a preferable mechanism alongside supportive line managers.
	5. Culture, Communications and Depa	ertmental Organisation						
5.1	Run unconscious bias training for all staff	To be held at Staff awayday 2013		UCL-HR (Organisational Staff Development)			All staff given unconscious bias	Partially achieved. An unconscious bias training workshop for senior CS staff was run in 2015. It will be offered on an annual basis to all CS staff. See Silver Action Plan 3.5.
5.2	Publicise success stories of staff and students within the department both internally and externally	website and social media	Facebook and Twitter regularly highlighting success stories since September 2012	AS Champion	Ongoing			Achieved. Our news web pages, Facebook page and Twitter feed publicises success stories of staff and students, and is picked up by UCL news channels.
5.3	Formalise the departmental workload allocation model, ensure that all "soft" activities such as communicating with students are taken into account in the model	Review of department workload model, research into current best practice		HoD	Annual			Partially achieved. The HoD uses an informal workload model that takes into account teaching responsibilities, administrative and research roles, and pastoral responsibilities, with exceptions made for individual circumstances. Details are shared with each staff member in their annual appraisal.
5.4	which aim for 50% representation of women in content	To be set up by AS Champion when in post	To begin when AS Champion in post	AS Champion			Blog set up, content both text and images 50% female focused	Not achieved. Goal dropped. The CS dept. prefers social media channels over blogs.
			To begin when AS Champion in post	AS Champion + ASWG			Social media channels set up,	Partially achieved. Female:male images on our news web pages, facebook page and twitter feed are no less than 30:70.
	Set up women@cs group for all females within the department, academic staff, support staff and students	, ,	To begin when AS Champion in post	AS Champion + ASWG		Early 2013	Group set up and starts meeting	Achieved. Goal changed to establishing multiple groups rather than one. Separate groups have been set up. ASPIRE organises UCLWE for UG and PG, ADVANCE organises Ladies' Group for female staff.
5.7	Improve the representation of women on key departmental committees, aiming for 50% representation	Produce action plan to ensure this is carried out		HoD, ASWG	review quarterly			Partially achieved. In 2015 the proportion of women on committees ranges from 27% to 50%. The SAT will explore options for increasing these %, see Silver Action Plan 4.1.

	Description of Action	Further Action Planned at November 2012	Progress Log	Responsibility	Timescale	Start Date	How Success will be Measured	Outcome 2015
5.8	Employ a member of staff with the remit of championing and implementing the Athena Swan action plan. This person will also be Women@CS coordinator.		HoD is currently securing funding for this position	HoD		Early 2013	Athena Swan champion appointed	Achieved. 2 Athena SWAN Champions appointed. Both have extensive experience in Athena SWAN types of activities in industry (Butler) and academia (Wardle).
5.9		To be set up by AS Champion when in post		women@cs group lead		Early 2013	Women@CS reps appointed	Achieved. Goal modified. Lead representatives from 2 groups have been established. UCLWE and UCLWE/CS for UG. and Ladies' Group for academic staff.
5.10	Athena Swan/women@CS committee to meet at least every 2 months to implement and review the Action Plan	2 monthly meetings at least	Currently meeting every Wednesday lunchtime, in future to be held at least 2 monthly, probably more frequently as we all enjoy the meetings so much:)	women@cs group lead	2 monthly	Jan-13	Athena Swan committee meetings held * 6 per annum	Achieved.
5.11		Prescence set up, to be expanded and enhanced, screen shots inculded in document	Established Facebook group and Twitter accounts, 100+ members already and good feedback/reach	AS Champion		Nov-13		Achieved. SAT has established CS Athena SWAN website, Twitter account and Facebook account. UCLWE has its own website and uses social networking to publicise its events.
	6. Career Break and Flexible Working							
6.1	Time departmental meetings to ensure care givers and those working flexibly can attend	All meetings currently held midday with lunch		Departmental Committee Chairs and Secretaries	Review Annually	started	Departmental meetings held during 10am-3pm	Achieved. Goal corrected. Core hours should read 10am-4pm, per 2012 submission. Departmental meetings are held between 10am and 4pm. Skype provides flexibility for those unable to be on-campus.
6.2	Ensure that special events and social occasions are held within times that care givers and those working flexibly can attend			Event organisers	Review Annually	2013		Achieved. Goal corrected. Core hours should read 10am-4pm, per 2012 submission. The Distinguished Lecture series and some public lectures start at 4pm. These are publicised several weeks ahead so that interested staff and students can arrange their schedule if they want to attend.
6.3	meetings for those unable to attend in	Write blogpost highlighting ways to join meetings remotely, include on department webpages		Departmental Committee Chairs and Secretaries	Review Annually	Mar-13	1	Achieved. Skype or conference calls are used to provide flexibility for those unable to be oncampus.

	Further Action Planned at					
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KEY			
ASWG	Athena Swan Working Group - currently the group that have worked together to produce this submission. The AS Champion will be a member of this group.	AS Champion	New member of staff soon to be recruited to champion Athena Swan initiatives within and for the Computer Science department. Will work with and report to the HoD and be a member of ASWG and Women@CS
HoD, HoG	Head of Department, Heads of Research Groups	PI	Prinicipal Investigator on a research project
UCL-HR	University College London Human Resources	Women@CS	Women's network being set up for all female students and staff in the Computer Science department. The AS