Frances Cooper | Resumé

School of Computing Science, Sir Alwyn Williams Building
University of Glasgow, Glasgow, G12 8RZ, UK
✉ f.cooper.1@research.gla.ac.uk • 🖰 fmcooper.github.io

Education

University of Glasgow   **Glasgow, Scotland**
PhD Computing Science   *2015 - present*
○ Thesis title: Open problems in the area of matching under preferences
○ Tutor; member of several committees (see *Committees* section)

University of Glasgow   **Glasgow, Scotland**
MSc Software Development, Distinction   *2013 - 2015*
○ Member of committee (see *Committees* section)

Open University   **UK-wide**
BSc Mathematics, 1st Class (Hons)   *2009 - 2013*
○ Distance learning degree whilst working

Awards and Scholarships

3 Minute Thesis Finalist: *2017*
○ Competition to explain your thesis to a non-technical audience
○ *University of Glasgow Finalist* and *College of Science and Engineering Commendee*

EPSRC PhD Scholarship: *2015 - 2019*
○ Funded PhD in Computer Science, University of Glasgow (3.5 years)

Confucius Institute Scholarship, China: *Summer 2015*
○ Won a scholarship after previous Chinese language study
○ Attended a *Language and Culture Exchange* at *Nankai University in Tianjin, China*

Class Prize: *2013 - 2015*
○ MSc Software Development *highest overall grade (21.2 / 22.0)*

Grace Hopper Prize: *2013 - 2015*
○ MSc Software Development *highest achieving female student*

SFC MSc Scholarship: *2013 - 2015*
○ Funded MSc in Software Development, University of Glasgow

Computing skills

General computing skills: Java, Python, Gurobi, Bash, Django, HTML, CSS, LaTeX, Git

Areas of interest: Algorithms & Complexity, Integer/Constraint Programming, Optimisation

Internships

(future) Amazon Internship   **Edinburgh, Scotland**
3 month internship at Amazon Development Centre, Edinburgh   *April - June 2018*

Conference Presentations

(future) BCTCS conference talk   **Royal Holloway, England**
British Colloquium of Theoretical Computer Science   *March 2018*
- Title: A 3/2-Approximation Algorithm for the Student-Project Allocation Problem

Invited speaker AWIDM   **Cape Town, South Africa**
Invited speaker at African Women in Discrete Mathematics conference   *January 2018*
- Encouraging women graduates into academic research roles

SICSA poster presentation   **Dundee, Scotland**
The Scottish Informatics & Computer Science Alliance   *June 2017*
- Title: Hard Variants of the Student-Project Allocation Problem

MATCH-UP poster presentation   **Boston, USA**
Microsoft Research Centre MATCH-UP conference   *April 2017*
- Title: Integer Programming for Student-Project Allocation

Publications

(submitted) SEA conference paper submission: *February 2018*
- *Symposium on Experimental Algorithms*
- Title: A 3/2-Approximation Algorithm for the Student-Project Allocation Problem

Committees

School of Computing Science research student representative: *2017 - 2018*
- Sitting on the RSC committee

BCTCS conference 2018 organising committee member: *2017 - 2018*
- British Colloquium of Theoretical Computer Science

College of Science and Engineering Graduate School Board: *2017 - 2018*
- Research student representative

Athena SWAN committee member: *2015 - 2016*
- Promoting gender equality in Computing Science

MATCH-UP conference 2015 organising committee member: *2015 - 2016*
- Conference organisation in Glasgow during MSc

Languages

English: Native proficiency

Mandarin: Beginner/Intermediate   *Hanyu Shuiping Kaoshi (HSK) level 2 certificate*

British Sign Language (BSL): Beginner   *level 1 certificate*

Experience

Whilst studying for my BSc I worked and volunteered in the care and education sectors.