# Frances Cooper | CV

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### **Education**

University of Glasgow Glasgow, Scotland 2015 - present PhD Computing Science • Thesis title: Open problems in the area of matching under preferences School of Computing Science research student representative • 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 **Internships Amazon Internship** Edinburgh, Scotland 3 month internship at Amazon Development Centre, Edinburgh April - June 2018 **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, Scala, Gurobi, Bash, Django, HTML, LATEX, Git **Areas of interest**: Algorithms & Complexity, Integer/Constraint Programming, Optimisation

#### **Conference Presentations**

#### (future) SEA conference talk - paper presentation L'Aquila, Italy Symposium on Experimental Algorithms June 2018 Paper title: A 3/2-Approximation Algorithm for the Student-Project Allocation Problem **BCTCS** conference talk Royal Holloway, England March 2018 British Colloquium of Theoretical Computer Science o 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 \*shortlisted Boston, USA **MATCH-UP** poster presentation Microsoft Research Centre MATCH-UP conference April 2017 • Title: Integer Programming for Student-Project Allocation **Publications** (accepted) SEA conference paper submission: June 2018 Symposium on Experimental Algorithms • Title: A 3/2-Approximation Algorithm for the Student-Project Allocation Problem Author list: Frances Cooper and David Manlove **Committees School of Computing Science Research Students Committee:** 2017 - 2018 BCTCS conference 2018 organising committee: 2017 - 2018 **College of Science and Engineering Graduate School Board:** 2017 - 2018 Athena SWAN committee (promoting gender equality in CS): 2015 - 2016 MATCH-UP and COST Action conference 2015 organising committee: 2015 - 2016 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.