

EDUCATION

University of Oxford

DPhil (PhD) in Computer Science

Oxford, UK

2018 –Present

- I am supervised by Leslie Ann Goldberg and Andreas Galanis.
- I work on randomised algorithms for approximate counting problems.

Imperial College London

MEng in Mathematics and Computer Science (First Class Honours)

London, UK

2013 –2017

JOURNAL PUBLICATIONS

1. A. Galanis, L. A. Goldberg, and J. Stewart. “Fast algorithms for general spin systems on bipartite expanders.” *ACM Transactions on Computation Theory (TOCT)* 13, no. 4 (2021): 1-18.
2. Z. Chen, A. Galanis, L. A. Goldberg, W. Perkins, J. Stewart, and E. Vigoda. “Fast algorithms at low temperatures via Markov chains.” *Random Structures & Algorithms* 58, no. 2 (2021): 294-321.
3. U. Grandi, J. Stewart, and P. Turrini. “Personalised rating.” *Autonomous Agents and Multi-Agent Systems* 34, no. 2 (2020): 1-38.

CONFERENCE PUBLICATIONS

1. A. Galanis, L. A. Goldberg, and J. Stewart. “Fast mixing via polymers for random graphs with unbounded degree.” In *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques (APPROX/RANDOM 2021)* (pp. 36:1–36:13). Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2021.
2. A. Galanis, L. A. Goldberg, and J. Stewart. “Fast algorithms for general spin systems on bipartite expanders.” . In *45th International Symposium on Mathematical Foundations of Computer Science (MFCS 2020)* (pp. 37:1–37:14). Schloss Dagstuhl–Leibniz-Zentrum für Informatik, 2020.
3. Z. Chen, A. Galanis, L. A. Goldberg, W. Perkins, J. Stewart, and E. Vigoda. “Fast algorithms at low temperatures via Markov chains.” . In *Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques (APPROX/RANDOM 2019)* (pp. 41:1–41:14). Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2019.
4. U. Grandi, J. Stewart, and P. Turrini. “The complexity of bribery in network-based rating systems.” In *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 32, no. 1. 2018.

WORK EXPERIENCE

Amadeus

Software Engineer

Nice, France

2017 - 2018

- Back-end C++.

Xerox Research Centre Europe

Research Intern

Grenoble, France

Summer 2016

Credit Suisse

Software Development Intern

London, UK

Summer 2015

TEACHING

- **Class Tutor** at Department of Computer Science, University of Oxford 2020, 2021
Probability and Computing
 - Tutor for a class of around 15 master's students.

AWARDS

- EPSRC Studentship 2018
DPhil funding for four years.
- Distinguished Project Award 2017
Awarded to my final-year project by the Department of Computing, Imperial College London.