

Yu Tian

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EDUCATION

University of Oxford

DPhil. Mathematics

Oxford, UK

Sep 2018 – Present

- Topic: Role extraction in bipartite networks (our industrial partner is Tesco).
- Supervision: Prof. Renaud Lambiotte.

University of Manchester

BSc. Mathematics and Statistics (2 + 2 Dual Degree)

Manchester, UK

Sep 2016 – Jun 2018

- First Class Hons.
- Final project topic: Model Selection versus Model Averaging in Gaussian Processes.
- Description: proposed a new approach – model averaging in parameter estimation, and achieved it though Monte Carlo method; ameliorated the model visualisation method; compared this overall method with the classical model selection in real data (code implemented in Python).
- Supervision: Dr. Thomas House.

Beijing Institute of Technology

BSc. Mathematics (2 + 2 Dual Degree)

Beijing, China

Sep 2014 – Jun 2016

- GPA 3.79/4.

INDUSTRIAL EXPERIENCES

Air Products

Research Intern

Walton-on-Thames, UK

July – Sep. 2019

- Incorporated both the inventory management and the transshipment of products to the mixed integer programming model.
- Proposed several relaxation methods and heuristics to improve solving efficiency.

European Study Group with Industry 145

Participant

Cambridge, UK

Apr. 2019

- Worked in groups on hardening techniques for classifying images.

OTHER ACTIVITIES

Outreach activities

- Volunteer at Oxford Maths Festival (Magic Mathsworks & Hands-on Maths), Feb. 2020

HONOURS AND AWARDS

- EPSRC InFoMM CDT Studentship (fully-funded PhD studentship, 2018 – 2022)
- First Prize in China Undergraduate Mathematical Contest in Modelling (Beijing, 09/2016 & 09/2015)
- First-Class People's Scholarship (5% in academia, 2014-2016)
- National Scholarship (5% in academic, research and other activities, 2014-2015)

SKILLS

- **IT skills:** Proficiency in Python (pandas, numpy, scipy, networkx, statsmodels, scikit-learn), MATLAB, LaTeX, git; Familiarity with R Language, C Language, Lingo
- **Languages:** Chinese (native), English (fluent)
- **Interests:** Cycling, Volleyball, Basketball, Football
- **Music:** Guzheng

PUBLICATIONS AND REPORTS

Publications

- **Y. Tian**, S. Lautz, A. Wallis and R. Lambiotte. *Extracting complements and substitutes from sales data: a network perspective*. Submitted.

Technical Reports

- M. Benning, L. Bonthron, T. Carr, J. Dyer, A. Malip, M. McGuigan, A. Puiu, **Y. Tian**, A. Wendland and L. Yang. *Identifying potential hardening techniques for image classifiers*. Report for European Study Group with Industry 145, Cambridge, UK, 2019.