Yifan Qian

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Short Bio

I am a PhD student in School of Business and Management (SBM) at Queen Mary University of London (QMUL). My research is broadly concerned with computational social science, and combines theories and methods from network science, sociology, machine learning, and data science. I received my MSc in Computer Science from Beihang University (China) in 2017, and my BSc in Information and Computing Science from Beihang University (China) in 2014.

Research Interests

Science of Science, Network Science, Computational Social Science, Graph Machine Learning

Education

- **Queen Mary University of London** — London, UK
  PhD candidate in Computational Social Science — *Sep. 2017 - Present*
  Supervisor: Prof. Pietro Panzarasa (QMUL)

- **Beihang University** — Beijing, China
  MSc. in Computer Science — *Sep. 2014 - Mar. 2017*
  Supervisor: Prof. Wenge Rong (Beihang University)

- **École Centrale de Nantes** — Nantes, France
  MSc. in Engineering — *Sep. 2013 - Aug. 2015*

- **Beihang University** — Beijing, China
  BSc. in Information and Computing Sciences — *Sep. 2010 - Aug. 2014*

Publications

- Journal Publications

  - **Yifan Qian**, Paul Expert, Pietro Panzarasa, and Mauricio Barahona. "Geometric graphs from data to aid classification tasks with graph convolutional networks." ***Patterns Cell Press*** 2, no. 4 (2021): 100237.
    doi: `https://doi.org/10.1016/j.patter.2021.100237`

  - **Yifan Qian**, Paul Expert, Tom Rieu, Pietro Panzarasa, and Mauricio Barahona. Quantifying the alignment of graph and features in deep learning. ***IEEE Transactions on Neural Networks and Learning Systems*** *(2021)*.
    doi: `https://doi.org/10.1109/TNNLS.2020.3043196`

  - **Yifan Qian**, Wenge Rong, Nan Jiang, Jie Tang, and Zhang Xiong. Citation regression analysis of computer science publications in different ranking categories and subfields. ***Scientometrics*** 110, no. 3 (2017): 1351-1374.

doi: `https://doi.org/10.1007/s11192-016-2235-4`

- Working Papers

    - **Yifan Qian**, Luca Verginer, Xiancheng Li, Massimo Riccaboni, and Pietro Panzarasa. Network foundations of scientific impact and innovation of cities. *In Preparation for Submission to Research Policy*.

    - **Yifan Qian** and Pietro Panzarasa. Intra- and inter-brokerage in social networks. *In Preparation for Submission to Sociological Methodology*.

    - **Yifan Qian**, Ching Jin and Pietro Panzarasa. Teams with unexpected collaboration between institutions are associated with higher impact. *Data Analysis*.

    - **Yifan Qian**, Marco Serino, Leslie DeChurch, Noshir Contractor, and Pietro Panzarasa. The structural foundations of creativity: A network-based study of co-productions among Italian theaters. *Data Analysis*.

    - Xiancheng Li, **Yifan Qian**, Mauricio Barahona, and Pietro Panzarasa. Publishing the first patent boosts scientists' performance. *Data Analysis*.

    - Hongwei Peng, **Yifan Qian**, and Pietro Panzarasa. Quantifying the temporal patterns of interdisciplinarity in scientists' careers. *Data Analysis*.

    - **Yifan Qian**, Luca Verginer, Greg Morrison, Massimo Riccaboni, and Pietro Panzarasa. Social distance with editors in co-authorship networks. *Data Analysis*.

- Peer-reviewed Conference Proceedings (Abstracts)

    - "Geometric graphs from data to aid classification tasks with graph convolutional networks". *NetSci (2020)*, Oral Presentation; *IC2S2 (2020)*, Poster.
    - "Network foundations of scientific productivity of cities in internal and external collaboration networks". *NetSci (2020)*, Poster; *IC2S2 (2020)*, Poster; *IC2S2 (2019)*, Oral Presentation.
    - "Intra- and inter-brokerage in social networks". *IC2S2 (2019)*, Poster.
    - "Quantifying the alignment of graph and data features in deep learning". *IC2S2 (2019)*, Poster; *Data Natives (2019)*, Oral Presentation; *UK Network Science workshop (2018)*, Oral Presentation; *IC2S2 (2018)*, Poster; *NetSci Satellite on Machine Learning in Network Science (2018)*, Oral Presentation; *NetSci (2018)*, Poster.

    NetSci: International School and Conference on Network Science.
    IC2S2: International Conference on Computational Social Science.

Selected Presentations

- NetSci 2020. (Talk&Poster, Virtual) . . . . Sep. 2020

- IC2S2 2020. (Poster, Virtual) . . . . Jul. 2020

- SBM PhD Symposium. (Talk, QMUL, UK) . . . . Oct. 2019

- IC2S2 2019. (Talk&Poster, University of Amsterdam, The Netherlands) . . . . Jul. 2019

- Data Natives 2019. (Talk, City, University of London, UK) . . . . Mar. 2019

- 2nd UK Network Science Workshop. (Talk, University of Greenwich, UK) . . . . Oct. 2018

- SBM PhD Symposium. (Talk, QMUL, UK) . . . . Oct. 2018

- IC2S2 2018. (Poster, Northwestern University, US) . . . . Jul. 2018

- PhD 9-Month Progression. (Talk, QMUL, UK) . . . . Jun. 2018

- NetSci 2018 Satellite: Machine Learning in Network Science. (Talk, Paris, France) . . . Jun. 2018

- NetSci 2018. (Poster, Paris, France) . . . . Jun. 2018

Reviewer

Advances in Complex Systems

Awards and Scholarships

- NetSci 2020 Registration Support (€130) 2020

- Queen Mary - China Scholarship Council Co-funded Scholarships (£100,000) . . . . . 2017 - 2021

- Beihang University Outstanding Graduate Dissertation Award (acceptance rate: 2%) 2017

- Beihang University Outstanding Graduate (acceptance rate: 5%) 2017

- First-class Graduate Scholarship from Beihang University (¥10,000) . . . . 2014 - 2015

- Scholarship from École Centrale de Nantes (€1,000) 2014

Teaching

- Innovation and Entrepreneurship (2021), Teaching Associate (Level 6 in Bachelor, SBM, QMUL)

- Quantitative Analysis for Business (2021), Teaching Associate (Level 4 in Bachelor, SBM, QMUL)

- Social Network Analysis (2019, 2020), Teaching Associate (Level 6 in Bachelor, SBM, QMUL)

Computer Skills

- Python, Matlab, R, C/C++, Latex, Bash/shell scripting, HTML, SQL.

- Operating systems: MacOS, Linux, Windows.

Languages

English (Proficient), French (Professional), Chinese (Native)