# Anping Zhang

Ph.D. student at Tsinghua-Berkeley Shenzhen Institute (TBSI)Tel: (+86) 15998344635<br/>zap21@mails.tsinghua.edu.cnTsinghua UniversityTel: (+86) 15998344635University Town of Shenzhen, NanShan District, Shenzhen, P.R. China.[GitHub]Research Interests: Data Mining, Graph, Topological Data Analysis[Google scholar]

## EDUCATION

- Ph.D. Data Science and Information Technology, Tsinghua-Berkeley Shenzhen Institute, Tsinghua University, 2021-2025 (expected)
- M.Sc. Data Science for Cultural Heritage (with distinction), The Bartlett, University College London, The United Kingdom, 2019-2020
- B.Sc. Mathematics with Statistics for Finance (with honors), Department of Mathematics, Imperial College London, The United Kingdom, 2015-2019

### PUBLICATIONS

#### **Journal Articles**

2022 Anping Zhang<sup>\*</sup>, Ke Zhang<sup>\*</sup>, Wanda Li, Yue Wang, Yang Li and Lin Zhang. "Optimising Self-organised Volunteer Efforts in Response to the COVID-19 Pandemic." *Humanities and Social Sciences Communications (Humanit Soc Sci Commun)* 9.1 (2022): 1-12. doi:https://doi.org/10.1057/s41599-022-01127-2

#### **Conference Articles**

- 2023 Dexu Kong, **Anping Zhang**, Yang Li. "Learning Persistent Community Structures in Dynamic Networks via Topological Data Analysis." *The 38th Annual AAAI Conference on Artificial Intelligence* (Accepted)
- 2023 Shutong Chen<sup>\*</sup>, **Anping Zhang**<sup>\*</sup>, Qiqi Chen<sup>\*</sup>, Yang Li. "Volunteer Retention and Future Collaboration Prediction in Volunteer Crowdsourcing Platforms." *In 2023 IEEE 33rd International Workshop on Machine Learning for Signal Processing (MLSP), pp. 1-5. IEEE, 2023.*

## **RESEARCH EXPERIENCE**

- 2022 now Topological Data Analysis advised by Prof. Yang Li.
- 2020 2021 Volunteer Behavior Analysis advised by Prof. Yang Li, Yue Wang and Lin Zhang.
  - We proposed a quantitative way to measure self-organization in volunteer behaviors based on normalized conditional entropy.
  - Analyzed causal effects of volunteer behaviors using a modified version of PCMCI+ algorithm.
  - Homepage of this work : https://anpingzzzz.github.io/pioneers2021.github.io/
- 2019 2020 **Statistical Analysis of Paper Collections Data** advised by Dr. Josep Grau-Bove and Prof. Tom Fearn.
  - We proposed a second-order Markov Chain model to predict the future number of paper visits in the City Archives of Amsterdam.

#### **INNOVATIVE PROJECT**

- 2013 A Crawler Mobile Car (The 28th China Adolescents Science & Technology Innovation Contest).
  - Proposed properties such as light-driven and auto-adapting
  - Constructed a prototype after studying implementation of existing crawler mobile cars
  - Won the Gold prize and Ranked top five out of 350 participating teams worldwide
- 2013 A Weighing Spoon (National Utility Model Patent)
  - Able to weight condiments using weighing sensors and signal magnifying modules.
  - Patent No.: ZL 2013 2 0236015.9
- 2013 A Smart Mouse (National Utility Model Patent)
  - Able to record online surfing time using temperature sensors, timing modules and vibrationdetecting devices
  - Patent No.: ZL 2013 2 0237167.0

# **INDUSTRY EXPERIENCES**

- 2019.6 2019.9 Chinese Desk Sales and Trading Intern at VORTO Trading Ltd (London, UK)
  - Cooperating with commercial banks, accountant company and property investment agents
- 2018.8 2018.10 Auditing Intern at Ernst & Young Global Shared Services Co. Ltd (Dalian, China)
  - Collected enterprise information, prepared due diligence reports, contacted external suppliers
- 2018.7 2018.8 Asset Management Intern at *China Galaxy Financial Holdings Ltd* (Beijing, China) - Financial Data Visualization and Analysis
- 2017.6 2017.7 Financial Markets Intern at Bank of East Asia Ltd. (Shanghai, China)
  - Drafting reports on daily trading performance
- 2016.10 2017.1 Part-time FX Trader at HooCapital Ltd. (London, UK)
  - Forex Trading for GIO Currency

## SERVICE

- 2023 Autumn Teaching Assistant of The Strategic Value of Innovation Technology by Prof. Xiaoquan (Michael) Zhang, Tsinghua University
- 2023.8 Teaching Assistant of Summer Camp by Prof. Xiao-Ping Zhang, Prof. Wenbo Ding, and Prof. Yansong Tang, X-institute
- 2022 Autumn Class and Student Representative at SIGS, Tsinghua University
- 2021 & 2022 Autumn Teaching Assistant of Writing Scientific Papers & Making Presentations in English by Prof. Faisal Nadeem Khan, TBSI.
- 2021.7 Member of the executive committee of TBSI Workshop on Learning Theory (TBSI-WOLT'21).
- 2019 Academic Representative at University College London

### **HONORS & AWARDS**

- 2023.7 Best Poster Award in International Workshop on Learning and Information Theory 2023 (WOLIT'23)
- 2023.5 Best Report & Distinguished Paper Award in 15th Nanshan Academic Forum for Doctoral Students in the Guangdong Hong Kong-MacaoGreater Bay Area, in conjunction with the 706th Doctoral Forum of Tsinghua University.
- 2022.12 The Second Prize Scholarship of SIGS, Tsinghua University
- 2020.6 Shortlisted for the academic representative of the year at University College London.
- 2014.6 Copper Award in the Cambridge Chemistry Challenge 2014
- 2014.3 Bronze Certificate in the 46th International Chemistry Olympiad UK Round One
- 2013.11 Gold Certificate in UK Senior Mathematical Challenge 2013 with *full mark 125/125 on the paper*
- 2013.8 Gold Prize in The 28th China Adolescents Science & Technology Innovation Contest

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