NING ZHANG

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Education

DPhil in Computational Discovery, University of Oxford	**Jan 2023 – Current**
Specialized in Fundamental Methodologies for Machine Learning	*Oxford, England*
MASc in ECE, University of British Columbia	**Sep 2019 – Apr 2022**
GPA: 93.8/100; Thesis topic: statistical estimation for graph alignment	*Vancouver, Canada*
BSc in Physics (*honor*), Nankai University	**Sep 2015 – Jun 2019**
GPA: 90.8/100 Ranking: 3/92 (3/15 in Poling class)	*Tianjin, China*

Research Interest

graph theory, probability theory, algorithms, statistics, machine learning theory, optimization, spectral methods, operations research, statistical physics

Publications (*corresponding author in alphabetical order)

1. Mihai Cucuringu, Xiaowen Dong, and **Ning Zhang***. Maximum likelihood estimation on stochastic blockmodels for directed graph clustering, 2024

2. Ziao Wang, **Ning Zhang**, Weina Wang, and Lele Wang. On the feasible region of efficient algorithms for attributed graph alignment. In *IEEE Transactions on Information Theory*, 2024

3. **Zhang, Ning**, Weina Wang, and Lele Wang. Attributed graph alignment. In *2021 IEEE International Symposium on Information Theory (ISIT)*, pages 1829–1834, 2021

4. **Zhang, Ning**, Susan Francis, Rayaz A Malik, and Xin Chen. A spatially constrained deep convolutional neural network for nerve fiber segmentation in corneal confocal microscopic images using inaccurate annotations. In *2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI)*, pages 456–460. IEEE, 2020

Awards

2023-2027	DPhil Scholarship from EPSRC and IBM
2021	IEEE North American School of Information Theory Best Poster Award
2020	Honorable Mention in Graph Attack and Defence Track of KDD Cup (rank 14/106)
2019	Outstanding Graduate in Nankai University (top 3%)
2017	Gong Neng Award (top 10%)
2016,2018	The Second and First Prize Scholarship for Outstanding Student (top 5%,10%)
2015-2019	Poling Scholarship (National Top-talent Students Training Program)

Teaching

MT 2023	Probability and Statistics for Network Analysis
Fall 2021	STAT321 Stochastic Signals and Systems
Spring 2021	STAT321 Stochastic Signals and Systems
Fall 2020	STAT321 Stochastic Signals and Systems
Spring 2020	Lab assistant for ELEC291 Electrical Engineering Design Studio I

Talks and Activities

2024	Graph Signal Processing Workshop, Delft, Netherlands
2023	International Conference on Complex Networks and their Applications, Menton, France
2021	IEEE International Symposium on Information Theory (ISIT) [Slides] IEEE North American School of Information Theory (NASIT) [Poster]
2020	IEEE International Symposium on Biomedical Imaging (ISBI)[Slides]

Relavent Skills

Language: Chinese (native), English (fluent)

Coding languages: MATLAB, Python, Mathematica, C++

Technologies/Frameworks: Linux, Github