

# Xingchao Jian

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## EDUCATION

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Nankai University, Tianjin, China

B.S. in Statistics

Sep. 2016 - Jun. 2020

Nanyang Technological University, Singapore

Ph.D. candidate

Overall GPA: 90.84/100, 8/65 — Major GPA 92.97/100, 5/65

Aug. 2020 -

## EXPERIENCE

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UC Berkeley

Exchange Student

California, US

Aug. 2018 - Dec. 2018

Hong Kong University of Science and Technology

Summer Research Internship

Hong Kong SAR

Jul. 8 2019 – Aug. 9 2019

Topic: stochastic graph models, network detection algorithms.

## Publications

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### Submitted/Underreview papers

1. **X. Jian**, F. Ji and W. P. Tay, “Comments on “Graphon Signal Processing”,” submitted to *IEEE Transactions on Signal Processing*, under review.
2. P. Zhang, **X. Jian**, F. Ji, W. P. Tay, B. Wen, “Frequency Convergence of Complexon Shift Operators”, submitted to *Proc. IEEE International Conference Acoustics, Speech, and Signal Processing*, 2024, under review.
3. **X. Jian**, F. Ji and W. P. Tay, “Generalized Graphon Process: Convergence of Graph Frequencies in Stretched Cut Distance,” submitted to *Proc. IEEE International Conference Acoustics, Speech, and Signal Processing*, 2024, under review.
4. **X. Jian**, W. P. Tay and Y. C. Eldar, “Kernel Based Reconstruction for Generalized Graph Signal Processing,” submitted to *IEEE Transactions on Signal Processing*, under review.

### Published/Accepted journal papers

1. **X. Jian** and W. P. Tay, “Wide-Sense Stationarity in Generalized Graph Signal Processing,” in *IEEE Transactions on Signal Processing*, vol. 70, pp. 3414-3428, 2022.

### Refereed conference Proceedings

1. **X. Jian** and W. P. Tay, “Kernel Ridge Regression for Generalized Graph Signal Processing,” in *Proc. IEEE International Conference Acoustics, Speech, and Signal Processing*, Rhodes Island, Greece, 2023.
2. **X. Jian** and W. P. Tay, “Wide-Sense Stationarity and Spectral Estimation for Generalized Graph Signal,” in *Proc. IEEE International Conference Acoustics, Speech, and Signal Processing*, Singapore, May. 2022.

### Books and Chapters

1. **X. Jian**, F. Ji and W. P. Tay (2023), “Generalizing Graph Signal Processing: High Dimensional Spaces, Models and Structures”, *Foundations and Trends® in Signal Processing*: Vol. 17: No. 3, pp 209-290.

## SKILLS

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- **Programming:** R, MATLAB, Python.
- **Communication:** Mandarin, English.