Yi-Jiao Zhang

Contact Information

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Research Interests

Network Science; Network embedding; Machine learning; Epidemic spreading on complex networks

Academic Position

Postdoctoral Researcher — 07/2022 — present
Department of Statistics and Data Science, Southern University of Science and Technology (China)

Education

Ph.D., Theoretical Physics, Lanzhou University (China) — 09/2015 — 06/2022
Advisor: Zhi-Xi Wu
Dissertation: "The spreading dynamics of multicomponent viruses on complex networks" (in Chinese)
Awarded for Outstanding Ph.D. Dissertation of Lanzhou University

Visiting scholar, Indiana University (USA) — 09/2019 — 09/2021
Advisor: Filippo Radicchi

B.S., Theoretical Physics, Lanzhou University (China) — 09/2011 — 06/2015
Advisor: Zhi-Xi Wu

Honors and Awards

Outstanding Ph.D. Dissertation, Lanzhou University	2022
Outstanding Graduate Student, Lanzhou University	2022
China National Scholarship for graduate students (¥30,000)	2019
China Scholarship Council award ($22,800)	2019

Publications

Journal Articles

J1. **Zhang, Y.-J.**, Yang, K.-C. & Radicchi, F. Model-free hidden geometry of complex networks. *Phys. Rev. E* **103,** 012305 (Jan. 2021).

J2. **Zhang, Y.-J.**, Yang, K.-C. & Radicchi, F. Systematic comparison of graph embedding methods in practical tasks. *Phys. Rev. E* **104,** 044315 (Oct. 2021).

J3. **Zhang, Y.-J.**, Wu, Z.-X., Holme, P. & Yang, K.-C. Advantage of Being Multicomponent and Spatial: Multipartite Viruses Colonize Structured Populations with Lower Thresholds. *Phys. Rev. Lett.* **123,** 138101 (Editors' Suggestion, Sept. 2019).

Presentations

Talks

- Systematic comparison of graph embedding methods in practical tasks.
  NetSci 2021, Washington DC, USA (virtual) — 07/2021
- Advantage of Being Multicomponent and Spatial: Multipartite Viruses Colonize Structured Populations with Lower Thresholds.
  National Statistical Physics & Complex Systems Conference (SPCSC), Hefei, China — 07/2019

Posters

- Model-free hidden geometry of complex networks.
  NetSci 2020, Rome, Italy (virtual) 09/2020
- SLIR Model for the Spread of Multicomponent Viruses in Complex Networks.
  NetSci-X 2018, Hangzhou, China 01/2018

Skills

Computational

Python (Pandas, Matplotlib, Scikit-learn, NetworkX, etc), C and Mathematica.

Language

Chinese and English

Last updated: July 18, 2022