# Sijing Tu

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## Education

- 2020-Pres. **Ph.D. Candidate in Computer Science**, KTH Royal Institute of Technology, Sweden. *Expected graduation: Spring 2025. Advisor: Aristides Gionis.*
- 2016–2020 **M.Sc. in Machine Learning, Data Science, and Artificial Intelligence**, Aalto University, Finland. *Research Assistant in 2019-2020. Advisor: Aristides Gionis.*
- 2011–2015 **B.Eng. in Information Security**, Huazhong University of Science and Technology, China. *Research Assistant in 2015-2016. Advisor: Kun He.*

#### **Research Visits**

- 2024 University of Padova, Italy. Host: Leonardo Pellegrina, June-July.
- 2022 University of Ioannina, Greece. Host: Panayiotis Tsaparas, May-July.

#### **Publications**

- 2025 **Sequential Diversification with Provable Guarantees**. *The 18th ACM International Conference on Web Search and Data Mining, WSDM'25* (to appear) Wang, H; <u>Tu, S</u>; Gionis, A
- 2024 **The Impact of External Sources on the Friedkin–Johnsen Model**. 33rd ACM International Conference on Information and Knowledge Management, CIKM'24 Out, C; <u>Tu, S</u>; Neumann, S; Zehmakan, AN. doi:10.1145/3627673.3679780
- 2023 Adversaries with Limited Information in the Friedkin-Johnsen Model. 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, KDD'23 Tu, S; Neumann, S; Gionis, A. doi:10.1145/3580305.3599255 ☆: 2306.10313 | ♥ SijingTu/KDD-23-Adversaries-With-Limited-Information

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- 2020 **Co-exposure Maximization in Online Social Networks**. *Thirty-fourth Annual Conference on Neural Information Processing Systems, NeurIPS'20* Tu, S; Aslay, C; Gionis, A. link: 10.5555/3495724.3495996
- 2020 **Tell me Something My Friends do not Know: Diversity Maximization in Social Networks**. *Knowledge and Information Systems* Matakos, A; <u>Tu, S</u>; Gionis, A. doi:10.1007/s10115-020-01456-1

#### Manuscript

2024 **OptiRefine: Densest Subgraphs and Maximum Cuts with** *k* **Refinements**. Tu, S; Stankovic, A; Neumann, S; Gionis, A. *Under submission* 

### **Presentations and Seminars**

#### 2024 80% Seminar at KTH

Title: Algorithmic Approaches to Online Social Network Challenges Opponent: Ioana O. Bercea, KTH **Seminar** at University of Padova Title: Algorithmic Approaches to Online Social Network Challenges

- 2023 **KDD**, conference presentation Title: Adversaries with Limited Information in the Friedkin–Johnsen Model
- 2022 **The Web Conference**, conference presentation, virtual event Titile: A Viral Marketing-Based Model For Opinion Dynamics in Online Social Networks

**50% Seminar** at KTH Title: Combating Bias and Polarization in Social Networks Opponent: Tijl De Bie, Ghent University

- 2021 **Data Science Seminar** at KTH Title: Co-exposure Maximization in Online Social Networks
- 2020 **NeurIPS**, conference poster session, virtual event Title: Co-exposure Maximization in Online Social Networks

### **Program Committees**

- 2024 KDD'24, ACML'24, SDM'25
- 2023 KDD'23, SDM'24

# **Other Research Activities**

- 2024 Aarhus Summer School on Learning Theory, Aarhus University, August 19-22 Website: conferences.au.dk/asslt
- 2023 ECMLPKDD'23, PhD Forum, Torino, September 18-22 Poster: Adversaries with Limited Information in the Friedkin-Johnsen Model
- 2023 23rd Max Planck Advanced Course on the Foundations of Computer Science, Saarbrücken, August 21-25 Topic: Algorithmic Foundations of Data Analysis Website: conferences.mpi-inf.mpg.de/adfocs-23/
- 2022 Swedish Summer School in Computer Science, KTH, June 26-July 2 Topics: *The Method of Moments in Computer Science and Beyond* by Ankur Moitra, and *Polyhedral Techniques in Combinatorial Optimization* by Ola Svensson Website: s3cs.eecs.kth.se

# **Teaching Assistant**

- 2022–2024 Machine Learning, Advanced Course, KTH master's level course Responsibilities included proposing new problems, conducting Q&A sessions, and grading assignments and project reports. Teaching commitment: 80–120 academic hours.
  2021–2023 Advanced Algorithms, KTH master's level course
- Responsibilities included holding exercise sessions, grading assignments, and evaluating project reports. Teaching commitment: 80–120 academic hours.
- 2021–2022 Algorithms and Complexity, KTH master's level course Responsibilities included holding exercise sessions and grading assignments. Teaching commitment: 80 academic hours.