



# Tiantian Chen

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## EDUCATION

### The University of Texas at Dallas

Aug. 2019 – present

Ph.D., Computer Science (GPA: 3.976), Advisor: [Prof. Ding-Zhu Du](#) and [Prof. Weili Wu](#)

### Ocean University of China

Aug. 2016 – Jun. 2019

M.S., Operational Research and Cybernetics (GPA: 96.2/100), Advisor: [Prof. Qizhi Fang](#)

### Ocean University of China

Aug. 2012 – Jun. 2016

B.S., Mathematics and Applied Mathematics (GPA: 3.7/4)

## RESEARCH INTERESTS

Social networks, Design and Analysis of Approximation Algorithms, Reinforcement Learning and Deep Learning

## PUBLICATIONS

- **Tiantian Chen**, Jianxiong Guo, Weili Wu. [Graph Representation Learning for Popularity Prediction Problem: A Survey](#). Discrete Mathematics, Algorithms and Applications, has been accepted, 2022.
- Xiao Li, Weili Wu, **Tiantian Chen**. [Blockchain Driven Privacy Preserving Contact Tracing Framework in COVID-19.](#), IEEE Transactions on Network Science and Engineering (TNSE), under review, 2022.
- **Tiantian Chen**, Jianxiong Guo, and Weili Wu. [Adaptive Multi-Feature Budgeted Profit Maximization in Social Networks](#). Social Network Analysis and Mining, under review, 2021.
- Jianxiong Guo, **Tiantian Chen**, and Weili Wu. [Continuous Activity Maximization in Online Social Networks](#). IEEE Transactions on Network Science and Engineering (TNSE), vol. 7, no. 4, pp. 2775-2786, 2020.
- Jianxiong Guo, **Tiantian Chen**, and Weili Wu. [A Multi-Feature Diffusion Model: Rumor Blocking in Social Networks](#). IEEE/ACM Transactions on Networking (TON), vol. 29, no. 1, pp. 386-397, 2020.
- Jianxiong Guo, **Tiantian Chen**, Weili Wu. [Budgeted Coupon Advertisement Problem: Algorithm and Robust Analysis](#). IEEE Transactions on Network Science and Engineering (TNSE), vol. 7, no. 3, pp. 1966-1976, 2020.
- **Tiantian Chen**, Bin Liu, Wenjing Liu, Qizhi Fang, Jing Yuan, Weili Wu. [A Random Algorithm for Profit Maximization in Online Social Networks](#). Theoretical Computer Science (TCS), vol. 803, pp. 36-47, 2020.
- **Tiantian Chen**, Wenjing Liu, Qizhi Fang, Jianxiong Guo, Ding-Zhu Du. [Minimizing Misinformation Profit in Social Networks](#). IEEE Transactions on Computational Social Systems (TCSS), vol. 6, no. 6, pp. 1206-1218, 2019.
- Weian Li, Wenjing Liu, **Tiantian Chen**, Xiaoying Qu, Qizhi Fang and Ker-I Ko. [Competitive Profit Maximization in Social Networks](#). Theoretical Computer Science (TCS), vol. 694, pp. 1-9, 2017.

## EXPERIENCE

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- Teaching Assistant, UT Dallas, TX Aug. 2019 – present
  - CS6363 Design and Analysis of Computer Algorithms
  - CS6382 Theory of Computation
  - CS/SE4347 Database Systems
  - CS/TE4341 Digital Logic and Computer Design
  - CS6301 Special Topics in Computer Science - Developing/securing the Cloud
  - CS4141 Digital Systems Laboratory

(CS6\* - graduate, CS/SE/TE4\* - undergraduate)
- Student mentor, UT Dallas, TX Summer 2021

Help mentor UTD summer camp 2021 for High School Students

## AWARDS

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- **2019** Received the Outstanding Graduate Award of Shandong province, in Ocean University of China.
- **2018** Received the Excellent Student Award in 2018 National "Non-submodular Combinatorial Optimization" Graduate Summer School, Excellent Graduate Student Cadre Award, Outstanding Graduate Award and the Second Class University's Scholarship, in Ocean University of China.
- **2017** Received the Outstanding Graduate Student Award, in Ocean University of China.
- **2016** Received the Second Prize in the Thirteenth National Post-Graduate Mathematical Contest in Modeling, Excellent Graduates Award, Excellent Graduate Scholarship, in Ocean University of China.
- **2015** Received the Honorable Mention Award in 2015 Mathematical Contest in Modeling, National Scholarship, the Outstanding Student Award of Shandong province, Outstanding Student Leader Award, and Outstanding Student Award of university, in Ocean University of China.
- **2014** Received the National Scholarship, Provincial First Prize in 2014 China Undergraduate Mathematical Contest in Modelling, and the Outstanding Student Award, in Ocean University of China.
- **2013** Received the National Inspiration Scholarship, in Ocean University of China.

## ACADEMIC SERVICE

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- Journal Reviewer
  - Theoretical Computer Science
  - Information Sciences
  - Discrete Mathematics, Algorithms and Applications
  - Operations Research Forum
  - Computational Social Networks
- Organizer
  - The 15th International Conference on Algorithmic Aspects in Information and Management (AAIM 2021)
- Volunteer:
  - The 14th Annual International Conference on Combinatorial Optimization and Applications (COCOA 2020)
  - The 15th Annual Conference of China Society for Industrial and Applied Mathematics

## **SKILLS**

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Python, PyTorch, Java, MATLAB, R, SQL.