



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

- 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

HONORS AND AWARDS

- **2019** Received the Outstanding Graduate Award of Shandong province, and the First Prize of Li Xiaoyong Fellowship, 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 and the First Class University's Scholarship, in Ocean University of China.
- **2016** Received the Second Prize in the Thirteenth National Post-Graduate Mathematical Contest in Modeling, Excellent Graduates Award, University's Scholarship, Excellent Graduate Scholarship and the Third Class University's 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, the First Class University's Scholarship, Scholarship Award for Participation in Social Activities, 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, the First Class University's Scholarship, Scholarship Award for Participation in Social Activities and the Outstanding Student Award, in Ocean University of China.
- **2013** Received the National Inspiration Scholarship and the Second Class University's Scholarship, in Ocean University of China.

TEACHING EXPERIENCE

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| High School Physics (11 Weeks Teaching/Observing)
Denison High School | Fall 2017 |
| High School Calculus (11 Weeks Teaching/Observing)
Denison High School | Fall 2017 |
| High School Geometry (9 Weeks Teaching/Observing)
Sherman High School | Spring 2016 |

COMMUNITY INVOLVEMENT

Austin College Community Tutors

Fall 2017 – Fall 2018

Free tutoring for local students in science and mathematics

River Legacy Nature Center

September 2015 – August 2016

Provided assistance for various youth science education programs

Back on My Feet Run Club

April 2014 – August 2015

Helping to reestablish homeless persons in the community

SKILLS

Languages: English (Native), Spanish (B1), Finnish (A1)

Programming: Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, Mathematica, Java

Document Creation: Microsoft Office Suite, LaTeX, Markdown