# **Tyler Chen**

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### Education

### Research

## **Publications**

*New communication hiding conjugate gradient variants.* **Tyler Chen**, et. al. In preparation. 2019.

On the Convergence Rate of Variants of the Conjugate Gradient Algorithm in Finite Precision Arithmetic. Anne Greenbaum, Hexuan Liu, **Tyler Chen**. In preparation. 2019.

### **Posters and Talks**

Symmetric Preconditioner Refinement Using Low Rank Approximations. **Tyler Chen**. at Baidu Research. February 2019.

## **Teaching**

TA, Probability And Statistics For Computational Finance (UW CFRM 410)	Winter 2019
TA, Calculus with Analytic Geometry I (UW MATH 124)	Autumn 2018
TA, Calculus with Analytic Geometry II (UW MATH 12)	Winter 2018
TA, Calculus with Analytic Geometry II (UW MATH 125)	Autumn 2017
Lab TA, Electronics (Tufts PHY 41)	Spring 2017
Lab TA, Electronics (Tufts PHY 41)	Spring 2016
Grader, Discrete Mathematics (Tufts MATH 61)	Spring 2016
Grader, Calculus III (Tufts MATH 42)	Fall 2015
Grader, Differential Equations (Tufts MATH 51)	Spring 2015
Grader, Calculus III (Tufts MATH 42)	Fall 2014

# **Awards & Honors**

Awards & Horiors
Graduate Research Fellowship (NSF)
Top Scholars Fellowship (UW)
The Audrey Butvay Gruss Science Award (Tufts)
Phi Beta Kappa (Tufts)
Sigma Pi Sigma Physics Honors Society (Tufts)
The Howard Sample Prize Scholarship in Physics (Tufts)
Dean's List (Tufts)
Outreach
Numerical Analysis Research Club
Organize and plan weekly meetings for NARC research club
SIAM UW Mental Health Conversation and Resources
Graduate Coursework
Randomized Algorithms and Probabilistic Analysis (UW CSE 525)
Optimization: Fundamentals and Applications (UW AMATH 515)
Design and Analysis of Algorithms (UW CSE 521)
Numerical Analysis of Time Dependent Problems (UW AMATH 586)
Inferring Structure of Complex Systems (UW AMATH 563)
Numerical Analysis of Boundary Value Problems (UW AMATH 585)
Advanced Stochastic Processes (UW AMATH 562)
Networks and Combinatorial Optimization (UW AMATH 514)
Applied Linear Algebra and Introductory Numerical Analysis (UW AMATH 584) Autumn 201
Applied Complex Analysis (UW AMATH 567)
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Algebra 2 (Tufts MATH 216)
Algebra 1 (1titts MATH 215)
Professional
Tufts Conference and Events Services
Reservations Manager, Registrar, Facilitator
Oversee all housing reservations at Tufts University during the summer conference season; Co ordinate and assist clients with logistical details relating to conferences; perform supervisory rol overseeing and training new staff; schedule employee shifts (implemented a VBA/excel system to automate much of this process); prepare individualized printed materials for upcoming conferences
Tisch Library Digital Design Studio
Provide supervision to student workers; staff front desk at the Digital Design Studio; assist patron with large format printing, recording, digitization equipment, and software.