

## Tyler Chen

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University of Washington  
Lewis Hall, Box 353925  
Seattle WA, 98195

## Education

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### University of Washington Seattle

September 2017 - Present

Ph.D. in Applied Mathematics (in progress)

- interests: scientific computing, computational algebra

### Tufts University

August 2013 - May 2017

B.S. Summa Cum Laude in Mathematics and Physics; Minor in Studio Art

## Research

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### Soft Matter Theory

April 2015 - January 2017

Undergraduate Researcher

- Optimize Monte Carlo simulations written in C used to explore the behavior of rigid balls constrained to the surface of ellipsoids under various conditions and constraints

### Research in Industrial Projects for Students Hong Kong

May 2016 - August 2016

ePropulsion teammember

- Participate in IPAM sponsored funded International Research Experience for Students (IRES) at Hong Kong University of Science and Technology
- Design and implement a communication protocol for short range underwater acoustic communication

## Teaching

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- TA, Calculus with Analytic Geometry II (UW MATH 125) . . . . . Winter 2018
- TA, Calculus with Analytic Geometry II (UW MATH 125) . . . . . Fall 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

## Professional

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### Tufts Conference and Events Services

May 2014 - August 2017

Reservations Manager, Registrar, Facilitator

- Oversee all housing reservations at Tufts University during the summer conference season
- Coordinate and assist clients with logistical details relating to conferences, perform supervisory role 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
- Staff 24-7 welcome desk directing and assist guests as needed
- Assist with occasional academic year events

### Tisch Library Digital Design Studio

August 2014 - May 2017

Student Supervisor

- Provide supervision to student workers
- Staff front desk at the Digital Design Studio, assist patrons with large format printing, recording, digitization equipment, and software.

## Relevant Skills

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### Programming Languages, Packages, and Software

- Proficient: Linux, Mathematica, LaTeX (TikZ/pgfplot), python (scipy/numpy), MATLAB, HTML/CSS/Javascript, Adobe Creative Cloud (Illustrator/Photoshop/InDesign), GIMP, Inkscape
- Developing: C, C++, CUDA, vim, git, slurm, Bash, Powershell, Tasker

### Other Skills

- I can ride a bike

## Awards & Honors

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- Top Scholar fellowship (UW) ..... Fall 2017
- The Audrey Butvay Gruss Science Award (Tufts) ..... April 2017
- Phi Beta Kappa (Tufts) ..... April 2017
- Sigma Pi Sigma Physics Honors Society (Tufts)..... May 2016
- The Howard Sample Prize Scholarship in Physics (Tufts) ..... April 2015
- Dean's List (Tufts) ..... All Semesters