

Tyler Chen

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University of Washington
Lewis Hall, Box 353925
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Education

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

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

- 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

Relevant Skills

Programming Languages, Packages, and Software

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

Other Skills

- I can ride a bike

Awards & Honors

- 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

Professional

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.