Tyler Chen

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University of Washington
Lewis Hall <box no ??>
Seattle WA, 98195

Education

University of Washington Seattle　　　　　　　　　　September 2017 - Present
Ph.D. in Applied Mathematics
— interests: atmospheric science, 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 Matther 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
— Rewrite an $O(N^2)$ algorithm to an equivalent $O(N)$ algorithm. This decreases the runtime of high particle number simulations to under 3% of the original code

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

— Teaching Assistant, Calculus I .... Fall 2017
— Lab Teaching Assistant, Electronics .... Spring 2017
— Lab Teaching Assistant, Electronics .... Spring 2016
— Grader, Discrete Mathematics .... Spring 2016
— Grader, Calculus III .... Fall 2015
— Grader, Differential Equations .... Spring 2015
— Grader, Calculus III .... Fall 2014

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.

Relevant Skills

Programming Languages, Packages, and Software
- Proficient: Mathematica, LaTeX (TikZ/pgfplot), HTML/CSS/Javascript, python (PIL, scipy), Adobe Creative Cloud (Illustrator, Photoshop, InDesign), GIMP, Inkscape
- Developing: C/C++, MATLAB, git, slurm, Bash, Powershell, Tasker, vim

Other Skills
- I can ride a bike

Activism & Service

Tufts VOX   September 2015 - May 2017
Webmaster
- Design, build, and maintain the website for the Tufts Chapter of VOX: Voices For Planned Parenthood
- Participate in on campus campaigns to promote reproductive justice

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