Tyler Chen

chentyl@uw.edu
tyler@chen.pw
http://chen.pw

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

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 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

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

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: Linux, Mathematica, LaTeX (TikZ/pgfplot), HTML/CSS/Javascript, python (numpy/PIL), Adobe Creative Cloud (Illustrator/Photoshop/InDesign), GIMP, Inkscape
- Developing: C, C++, MATLAB, 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