Tyler Chen

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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

University of Washington (under Anne Greenbaum)

March 2018 - Present

- Explore the behaviour of various (parallelized) implementations of the conjugate gradient algorithm in finite precision arithmetic
- Develop python library for reduced precision floating point arithmetic along with compatible linear algebra module (in progress)

Soft Matter Theory

April 2015 - January 2017

 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

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

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, Mathematica, LaTeX, TikZ/pgfplot, MATLAB, HTML/CSS/Javascript,
- Developing: tensorflow, theano, keras, CUDA, C, C++, sympy, git, slurm, 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.