tyler**chen**

University of Washington
Lewis Hall
Seattle WA, 98195

chentyl@uw.edu
857.264.9044
www.chen.pw

Education

University of Washington   Seattle, WA
Applied Mathematics Ph.D. program   September 2017 - Present
— Relevant interests: atmospheric science, scientific computing

Tufts University   Medford, MA
B.S. Mathematics, B.S. Physics, Minor Studio Art   August 2013 - May 2017

Research

Soft Matther Theory   Medford, MA
Undergraduate Researcher   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
— Rewrote an $O(N^2)$ algorithm to an equivalent $O(N)$ algorithm. This decreased the runtime of high particle number simulations to under 3% of the original code

Research in Industrial Projects for Students (Hong Kong)   Hong Kong
ePropulsion groupmember   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 communication protocol for short range underwater acoustic communication

Teaching

Tufts University Physics Department   Medford, MA
Lab Instructor   January 2016 - May 2017
— Develop and run weekly lab session for the Electronics lab course.

Tufts University Math Department   Medford, MA
Grader   September 2014 - May 2016
— Grade written homework assignments for undergraduate math courses at Tufts1

Professional

Tisch Library Digital Design Studio   Medford, MA
Student Supervisor   August 2014 - May 2017
— Provide supervision to student workers
— Staff front desk at the Digital Design Studio, assist patrons with large format printing, recording, digitization equipment, and software.

Tufts Conference and Events Services   Medford, MA
Reservations Manager, Registrar, Facilitator   May 2014 - August 2017
— Oversee all housing reservations within Tufts University during the summer
— 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

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