TYLER CHEN

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EDUCATION

Tufts University   Medford, MA
Bachelor of Science: Mathematics, Physics, Minor: Studio Art   *August 2013 - May 2017*
  – GPA: 3.89, (Mathematics GPA: 4.00/Physics GPA: 3.95), Deans List (all semesters)
  – Relevant courses: Abstract Algebra I/II, Real AnalysisI/II, Complex Variables, Abstract Linear Algebra, Problem-Solving by Computer, Electricity and Magnetism, Electronics, Advanced Modern Experimental Physics, Mechanics, Differential Equations, Calculus II/III

EXPERIENCE

Soft Matther Theory   Medford, MA
Undergraduate Researcher   *April 2015 - Present*
  – 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

Tisch Digital Design Studio   Medford, MA
Student Supervisor   *August 2014 - Present*
  – Provide Tier II support to the lab, staff front desk at the Digital Design Studio, assist guests with large format printing, recording, digitization equipment and software.

Tufts Physics Department   Medford, MA
Lab Teacher's Assistant   *January 2016 - Present*
  – Supervise and run weekly lab session for Physics 41, Electronics.

Tufts Mathematics Department   Medford, MA
Grader   *September 2014 - Present*
  – Grade written homework assignments for undergraduate math courses at Tufts
  – Courses graded include: Discrete Math, Differential Equations, and Calculus III

Tufts Conference and Events Services   Medford, MA
Registrar, Facilitator   *May 2014 - Present*
  – 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

SKILLS

Programming Languages
  – C, C++, Javascript/CSS/HTML, LaTeX(including TikZ/pgfplot), python (including PIL), Mathematica, Tasker (android app)

Other Skills
  – git, OAuth, Adobe Illustrator, Photoshop, InDesign

Activities and Interests
  – Society of Physics Students, Tufts VOX (webmaster), Running/Cycling, Education, Social Justice

MORE

chen.pw   *Personal Website*
  – My personal website and additional contact information.

design.chen.pw   *Art and Design Portfolio*
  – A collection of selected art and design work I have done over the past few years.