


THEODORE M. LANDMAN

✉ tmvlandman@gmail.com  github.com/tmvland

Education

UNIVERSITY OF MICHIGAN

ANN ARBOR, MI

Bachelors of Science in Physics and Mathematics, 3.3 GPA

September 2017-May 2022

- **Selected Coursework:** • Math 404: Intermediate Differential Equations • Math 454: Boundary Value Problems in Partial Differential Equations • Math 471: Numerical Methods in Mathematics • Physics 411: Computational Physics • Physics 445: Information Theory

Experience

University of Michigan

Ann Arbor, MI

Course Coordinator

June 2023 to present

- Assembled and maintained a program to schedule office hours and labs for teaching staff using Python for linear programming methods.
- Updated the main course website weekly, maintained other course pages and data such as PrairieLearn and Gradescope, sent course announcements, and processed and posted grades.
- Handled requests for extensions, regrades, accommodations, and excused absences for a course of approximately 700 students. Processed regrades and worked with students to build plans for completing work
- Maintained the staff office and coordinated communications with building management, handled reimbursements and course registration add/drop overrides.

Research Assistant

May 2019 – May 2022

- Investigated techniques of star-galaxy separation under the supervision of Dr. Eric Bell.
- Developed a two-point galaxy autocorrelation function in order to better characterize substructure of background galaxies.
- Used Python to analyze large datasets, working with tools such as NumPy, Astropy, and matplotlib.
- Communicated results and visualizations in group meetings.

Research Assistant

July 2021-September

- Used Python to construct and analyze methods of numerically solving systems of partial differential equations under the supervision of Dr. Eric Johnsen.
- Constructed approximations to the solution of systems through use of spectral and discontinuous Galerkin methods.

Exam Proctor and Student Ambassador

September 2021 – December 2021, April 2022

- Assisted in the delivery of midterm exams for the course Physics 150
- Answered clarifying questions and checked for academic honesty during the exam period.
- Met with high school students interested in pursuing physics. Discussed and provided resources related to research and career exploration within physics.
- Led a tour of the physics department, including the research and advanced labs.

Rensselaer Polytechnic Institute

Troy, NY

Teaching Assistant

September 2022-January 2023

- Worked with faculty and other graduate student instructors to deliver the course Calculus 1 to undergraduate students.
- Developed rubrics for exams and graded exams from multiple sections.
- Held office hours and aided students with their learning process on homeworks, quizzes, and exam review.
- Worked with Gradescope, Blackboard, and other learning technologies.

Technical Skills

Languages: Python, MATLAB, C++, Java, HTML.

Developer Tools: Github, Docker, WSL, VScode