

Dominick Robinson

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EDUCATION

Carnegie Mellon University

May 2025

Bachelor of Science in Mathematical Sciences (Statistics), Minor in Creative Writing

Pittsburgh, PA

- 3.92/4.00 GPA
- **Relevant coursework:** Matrices and Linear Transformations, Principles of Imperative Computation, Multidimensional Calculus, Probability, Principles of Real Analysis, Intro to Statistical Inference II, Intro to Ordinary Differential Equations, Discrete Math, Intro to Accounting, Intro to Machine Learning, Modern Regression, Numerical Methods, Operations Research I, Intro to Functional Programming, Intro to Probability Models

PROJECTS

Tennis ELO Dashboard

January 2024

- Used Plotly Dash to model ATP tennis ELO over time, with the ability to omit any player from history

Game Creation Society Project (Supreme Hen Donkey)

Feb 2022 - May 2022

Team Lead

Pittsburgh, PA

- Quickly learned game development in Godot with no prior experience to deliver quality product
- Won **GCS Gold Award** for excellence

RESEARCH

Graph Theory: Cops and Robbers

May 2023 - present

- Developed video game and mathematical tool based on graph theory game of cops and robbers
- Includes graph editor, JSON converter/parser, and computer opponents which follow proven optimal strategies

Gamification in the classroom: How different types of leaderboards and levels of goal-setting affect performance and motivation in a problem solving task

Sept 2020 - May 2021

- Developed live online slide puzzle game using Python/Pygame
- Collected and analyzed various statistics of 100+ players using Google Sheets API

LEADERSHIP

Game Creation Society

Dec 2022 - present

President

Pittsburgh, PA

- Plan and lead officer meetings and general body events involving 70+ members
- Communicate and plan talks with industry speakers

CMU Pickleball Club

Dec 2022 - present

President/founder

Pittsburgh, PA

- Grew club to 200+ members in less than two semesters

WORK EXPERIENCE

Carnegie Mellon University

Aug 2023 - present

Teaching Assistant for 21-256 Multivariate Analysis

Pittsburgh, PA

- Create lesson plans for weekly recitations containing 30 students
- Host office hours, grade homeworks and exams, and create homework solutions using LaTeX

SKILLS

- **Programming:** Python, R, Numpy, HTML, CSS, Pandas, Dash, Plotly, Matplotlib, Godot
- **Tools:** LaTeX, GitHub, PowerPoint, Excel, Word