Jin Schofield

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EDUCATION

- Computer Science Student with Mathematics Minor | Princeton University | Minor in Mathematics | Sept. 2022 May 2026
- 1590 SAT (800 Math, 790 Reading/Writing 99th percentile), 36 ACT (100th percentile), 44/45 IB Diploma (99th percentile).
- President of Princeton NeuroTech, Officer of Princeton AI, Principal at Prospect Student Ventures (VC Club), Pitched to GenNTech, AstraZeneca, Trinity Life Sciences with E-Club.
- Coursework: Mathematical game theory, Non-Euclidean geometry, Reinforcement learning, Theory of algorithms, Operating Systems, Theory of natural algorithms (graduate course), Probability + stochastic systems, Real analysis, Functional programming, Data structures and algorithms, Introduction to programming systems, Introduction to machine learning, Reasoning about computation, Cognitive neuroscience, Linear algebra

SKILLS

• Skills: Python, C, C++, OCaml, Java, R, JavaScript, HTML, CSS, Keras, PyTorch, NumPy, Pandas, Git, MediaPipe

EXPERIENCE

Neuromorphic Reinforcement Learning Researcher | Eysenbach Lab and Griffiths Lab, Princeton University | May 2025 - Present

• Researching combining contrastive reinforcement learning and Bayesian RL to create RL agents that utilize inductive biases and representations.

Teaching Assistant for COS 226 and COS 217 | Princeton University CS Department | January 2025 - May 2025

• Taught students data structures and algorithms and programming systems.

Machine Learning Researcher (Latent Diffusion) | Ramaswamy ML Interpretability Lab, Princeton University | December 2024 - April 2025

- Developed novel conditional diffusion method for cellular automata synthesis in Conway's Game of Life. GitHub https://github.com/jinschofield/Gen-GOL
- Researched application of diffusion on language with Diffusion of Thoughts

Quantative Research and Data Science Intern | QuantCap, LLC | December 2024 - January 2025

 Used RNNS, XGBoost, Random Forest to generate strategy for 305% cumulative returns on options over 12-month period. Supervised and mentored by Quantitative Researcher at BlackRock, ex-Meta Data Scientist, UPenn Wharton. Constructing data sets with SQL and Python based on Black-Scholes model.

AI Research and Software Engineering Intern | CalTech Perona Computer Vision Lab | June 2024 - Aug. 2024

• Implemented novel in-context learning in latent diffusion models with few-shot method. Improved accuracy by 26%.

Product Intern | GPTZero | June 2023 - September 2023

• I designed features for educational AI tools at GPTZero, an AI edtech start-up with \$10 million in funding. Wrote a weekly newsletter for 45 000 subscribers.

Data Science/ML Intern | Oxford University Clinical Research Unit | July 2023 - August 2023

• Analyzed extensive patient datasets using R. Enhanced predictive accuracy of patient outcomes using ML.

Software Engineering Intern | Hybrid Biomedical Optics Laboratory at York University | June 2021 - August 2022

• Programmed back-end C++ code of SeekThermal infrared cameras for immunoassay bodily fluid THC detection device. Programmed GUI in Python.

OTHER PROJECTS

Alstotle - An LLM-powered educational chrome extension for YouTube videos | 2023

• Uses GPT-4 Vision, ElevenLabs, and retrieval-augmented generation.

ConchShell - A wearable ASL translator that uses Al to convert ASL letters into a voice | May 2021 - June 2022

• Engineered a wearable device using C++ and PyTorch to translate ASL letters into speech, achieving 94% translation accuracy and securing \$16600 in funding through DMZ accelerator support, while gaining national recognition.

AWARDS & HONORS

1st Place Jane Street Estimathon | Harvard Undergraduate Trading Competition

Represented Princeton at ICPC Regionals | ICPC Regionals

97th Percentile Fryer Math Contest | University of Waterloo