

Laird Stewart

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EDUCATION

MS Computer Science, New York University **8/26–Present**

Johns Hopkins Engineering for Professionals (non-degree) **1/24–12/25**

Theory of Machine Learning, Monte Carlo Methods, Electromagnetics (2x), Fluid Dynamics, Plasma Physics

BS Computer Engineering, Georgia Institute of Technology **8/21–5/23***

4.0 GPA, Tau Beta Pi (Engineering honor society), Eta Kappa Nu (IEEE honor society)

BS Applied Mathematics, Emory University **8/18–5/21***

3.9 GPA, Dean's List, Minor in Economics, Omicron Delta Epsilon (Economics Honor Society)

INDUSTRY EXPERIENCE

Software engineer, Metron **6/23–7/26**

- Core developer of US Navy's premier tracker (TRK); sequential Monte Carlo for Bayesian state estimation
- Implemented forward-backward particle smoothing feature in TRK, from algorithm to data visualization
- Lead engineer on ONR project to jointly estimate target submarine and environment state using acoustic-ray tracing. Leveraged normalizing flows and "ensemble samplers with affine invariance" for performance
- Gave 3 talks (Kafka, Claude Code, ONR research), organized 2 reading groups (SMC, Bishop deep learning)

Data science intern, Equifax **5/21–8/21**

- Built and automated end-to-end training pipeline for random forest classifier of U.S. households in R/SQL

PUBLICATIONS

SIR Model of Time-Dependent Drug and Vaccine Distribution on COVID-19 **4/21**

- Expanded a standard "Susceptible-Infected-Recovered" (SIR) system of differential equations to include the effects of drug/vaccine deployment and modeled them in Python. Led team of four undergraduates.
- Published in Society for Industrial and Applied Math Undergraduate Research Online

ADDITIONAL EXPERIENCE

Co-founder, NYU AI Safety Association **7/26–Present**

- Organizing seminars, technical talks, and networking events to support AI Safety talent and research

Data science consultant, ERASE Child Trafficking **2/21–3/21**

- Built linear regression and random forest models in Python to predict successful social media posts

Tutor, Emory University **1/19–2/20**

- Tutored Emory undergraduates in linear algebra and symbolic logic in 50 minute, 1-on-1 sessions

ADDITIONAL INFORMATION

Languages/Tools: Java, Python, C, SQL, scikit-learn, NumPy, Git, Linux, Protobuf/gRPC, Guice, OpenGL

Skills: Monte Carlo methods, Concurrent/Parallel programming, high-performance software design

Hobbies: Reading, Substack, Squash, Running, Skiing, Hiking: summited 12 14,000 ft peaks

** Earned two bachelor's degrees. Completed Emory degree in 3 years then transferred to GT. Both diplomas conferred 5/23*