

SCHOOL OF ENGINEERING AND APPLIED SCIENCES · COLUMBIA UNIVERSITY

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Education -**Columbia University** New York, NY Sep 2022 - Dec 2023 MS FINANCIAL ENGINEERING • GPA: 3.7/4.0 Concentration in Machine Learning **University of California, Los Angeles** Los Angeles, CA Sep 2019 - Jun 2022 BS MATHEMATICS/ECONOMICS • GPA: 3.9/4.0 · Specialization in Computing Professional Experience _____ Citigroup New York, NY QUANTITATIVE SUMMER ANALYST - EQUITIES CENTRAL RISK Jun 2023 - Aug 2023 Systematic order filtering using sentiment Citigroup New York, NY Jun 2022 - Aug 2022 QUANTITATIVE SUMMER ANALYST - AI INNOVATION LAB Language model fine-tuning for news data classification **Consulting Startup** Remote **QUANTITATIVE DEVELOPER** Dec 2021 - May 2022 • Created derivative pricing and risk management tools for trading bots **Edelman Financial Engines** Santa Clara, CA Jun 2021 - Aug 2021 **DATA ANALYST INTERN** • Identification of fiduciary performance issues through statistical testing Publications _____ IN PREP

A Bayesian Hierarchical Framework for Modeling Migration Flows. **Aric Cutuli**, Upmanu Lall, Michael Puma, Emile Esmaili, Rachata Muneepeerakul. 2023.

TECHNICAL REPORTS

Separation Capacity of Randomly Initialized DNNs. Aric Cutuli, Harold Haodong Miao, Weitao Zhu. 2023.

Presentations _____

Aric Cutuli*, Upmanu Lall, Michael Puma, Emile Esmaili, Rachata Muneepeerakul. 2023. A Bayesian Hierarchical Framework for Modeling Migration Flows. MURI Migration 2023 Annual Evaluation.

Aric Cutuli*, Harold Haodong Miao*, Weitao Zhu*. 2023. Separation Capacity of Randomly Initialized DNNs. Department of Electrical Engineering, Columbia University.

^{*} presenting contributor

Aric Cutuli*, Xia Li. 2022. Hawkes Processes in Finance. Directed Reading Program Student Colloquium, University of California, Los Angeles.

Research Experience _____

Columbia Climate School New York, NY

ADVISOR: PROF. UPMANU LALL & DR. MICHAEL PUMA

Feb 2023 - Present

• Bayesian hierarchical regression and machine learning to develop improved predictions of human migration flows

Teaching Experience _____

2023 **Algorithmic Trading**, Lead Teaching Assistant

Awards, Fellowships, & Grants _____

2019	University Grant, University of California, Los Angeles	\$ 45,000
	Legacy Scholar, Elks National Foundation	\$ 4,000
	IAHF Scholar, Italian American Heritage Foundation	\$ 1,000
	Most Valuable Student, California-Hawaii Elks Association	\$ 200

Outreach & Professional Development _____

AFFILIATIONS AND SERVICE

2021-2022 **UCLA Quantitative Trading Club**, Cofounder

2021 UCLA Directed Reading Program, Reading Group Lead

PROFESSIONAL MEMBERSHIPS

QWAFAxNEW

SKILLS

Programming Languages

Python, C++, Java, Go

Technical Libraries

scikit-learn, NumPy, NumPyro, Keras, PyTorch, Hugging Face, statsmodels, CVXPy

Developer Tools

q/kdb+, SQL, Git, Docker