

Connor Douglas

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U.S. Citizen

BIO

My research interests broadly lie at the intersection of computation and economics. Specifically, I am interested in data-driven decision-making, adaptive experimentation, sampling techniques for language model training, and personalization.

I am grateful to be supported by the NSF Graduate Research Fellowship Program (GRFP) and NYU Stern doctoral program.

Interests: *machine learning, reinforcement learning, data-driven decision making, personalization, pricing, markets, multi-agent systems*

EDUCATION

New York University, Stern School of Business <i>Ph.D. Information Systems — Technology, Operations, & Statistics department</i>	2022 - Present New York, NY
Washington University in St. Louis <i>B.S. Computer Science & Economics — McKelvey School of Engineering</i> <ul style="list-style-type: none">Grade: 3.98/4.0, <i>Summa Cum Laude</i>Minor: Design	2018 - 2022 St. Louis, MO

PROFESSIONAL EXPERIENCE

United Nations <i>Research Fellow</i> <i>Addressing mis/disinformation in peacekeeping</i> <ul style="list-style-type: none">Constructed novel method of coordinated behavior detection through semantic similarity and time differentialsStudied methods for identifying mis/disinformationBuilt semantic search and clustering functionality in monitoring tool	Nov. 2023 – May 2024 New York, NY
Genentech <i>Software Engineering Intern</i> <ul style="list-style-type: none">Developed novel technique for creating structured data from unstructured clinical trial protocolsLed project in developing full-stack clinical study management toolDesigned and built front-end of question-answering tool ingesting protocol documents	May 2020 - May 2021 South San Francisco, CA

PUBLICATIONS

Naive Algorithmic Collusion: When Do Bandit Learners Cooperate and When Do They Compete?

Connor Douglas, Foster Provost, Arun Sundararajan
Proceedings of ICIS 2024 (forthcoming). 2024.

Computing an Optimal Strategy in a Baseball At-bat

Connor Douglas, Everett Witt, Mia Bendy, Yevgeniy Vorobeychik
Proceedings of FLAIRS-36 Conference. 2023.

Techniques for Abstraction of Unstructured Clinical Trial Health Data

Lukas Corey*, Jennifer Crawford*, Connor Douglas*, Benjamin Fernandez*
U.S. Patent Office Filing (PCT/US22/30369). 2022.

*Equal Contributions

RESEARCH-IN-PROGRESS

Domain Adaptation of Sentence-level Embedding Models with LLM Feedback

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TEACHING EXPERIENCE

Microeconomics (Undergraduate) <i>Teaching Fellow</i> <i>New York University — Stern School of Business</i>	Fall 2024
Intro. to Analytics and AI (Graduate) <i>Teaching Fellow</i> <i>New York University — Stern School of Business</i>	Summer 2024
Data Science for Business (Graduate) <i>Teaching Fellow</i> <i>New York University — Stern School of Business</i>	Spring 2024
Intro. to Econometrics (Undergraduate) <i>Teaching Assistant</i> <i>Washington University in St. Louis — Economics Department</i>	Spring 2022
Data Structures & Algorithms (Undergraduate) <i>Teaching Assistant</i> <i>Washington University in St. Louis — Computer Science Department</i>	Fall 2019, Spring 2020

INSTITUTIONAL SERVICE

ISPOC <i>Associate Organizer</i>	2024
Tau Beta Pi (WUSTL Chapter) <i>President</i>	2021-2022
Engineers Without Borders (WUSTL Chapter) <i>Treasurer</i>	2019-2021

PRESENTATIONS AND INVITED TALKS

Topics in Data Science: Guest Lecture on Multi-armed Bandits and Reinforcement Learning. 2024.

Topics in Data Science: Guest Lecture on Multi-armed Bandits and Reinforcement Learning. 2024.

FLAIRS-36 Conference: Oral presentation on *Computing an Optimal Strategy in a Baseball At-bat*. 2023.

GRANTS AND AWARDS

NSF GRFP: Award won in Economics (2024); Total Funding: \$159,000

National Merit Scholarship: Scholarship awarded by Pfizer (2018); Total Funding: \$12,000

SELECTED GRADUATE COURSEWORK

- *Advanced Topics in Data Driven Decision Making*
- *No-regret Learning in Games*
- *Machine Learning and Sequential Decision Making*
- *Stochastic Processes*
- *Topics in Data Science*
- *Topics in Digital Economics*
- *Technical Foundations of Information Systems*
- *Real Analysis*
- *Convex Optimization*
- *Reinforcement Learning*
- *Human-in-the-loop Computation*