

RYAN STEED

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EDUCATION

George Washington University

B.S. Computational Economics

Minor in Philosophy

August 2017 - May 2020

GPA: 3.98

RESEARCH EXPERIENCE

George Washington University

Research Assistant, Department of Computer Science

September 2018 - Present

- Research fairness, accountability, and transparency in machine learning under Dr. Aylin Caliskan.
- Motivated, designed, and conducted experiments to detect emotional bias in state-of-the-art deep learning models for face recognition.

Duke University

Research Assistant & Lead Modeler, Social Science Research Institute

May 2017 - January 2018

- Under Max Erdemendi, oversaw model design and computational development of game-theoretic decision-making software for intelligence analysts.
- Coordinated the development of social network analysis algorithms & random graph models for link prediction between actors; presented work to intelligence community members at the Pentagon.
- Presented neural network sentence classification model at ISA academic conference.

University of North Carolina at Chapel Hill

Research Affiliate, Department of Political Science

August 2016 - May 2017

- Collaborated with Dr. Timothy McKeown to parse and analyze foreign policy web archives.
- Constructed Python web crawler to scrape and standardize digital documents from several sources.

PROFESSIONAL EXPERIENCE

Capital One

Data Engineer

May 2019 - Present

GW Innovation Center

Virtual Jane Project Manager & Technology Fellow

September 2017 - Present

- Co-founded GWU's first maker space for entrepreneurs and student innovation.
- Served as product owner and scrum master for Virtual Jane project, a mobile virtual reality educational app for the Jane Goodall Institute modeled in Maya and developed in Unity.
- Hosted Dr. Jane Goodall at GWU for a motion capture scan and creative pitch.
- Recruited, organized, and fundraised over \$10,000 for a team of student animators, developers, and content creators.

Magic Number

May 2018 - August 2018

Machine Learning Engineer

- Researched, designed and tested machine learning classification and clustering models to categorize patent documents into packaged sectors for clients.
- Implemented virtual machine microservice stack to schedule machine learning training and execution, manage model hyperparameters, and serve machine learning predictions.

PUBLICATIONS

- Erdemandi, M., Augustine, R., Zhao, L., **Steed, R.**, “Expansion of automated event coding for better international security analysis,” in *International Studies Association South*, 2017.
- Rivera, W. A., Rogers, A., **Steed, R.**, “The practice and promise of open source intelligence and computational security studies,” in *International Studies Association South*, 2017.
- **Steed, R.**, “Evolution of innovation in patent citation networks,” Poster presented at GW Research Days, 2019.
- **Steed, R.**, “AI is Heideggerian enough, but can it be authentic?” Manuscript, 2019.
- **Steed, R.**, “From plato to popper: Platonic forms in modern science and quantum theory,” Manuscript, 2017.
- **Steed, R.**, Rivera, W. A., “The derivative relational attribute graph model for link prediction,” Manuscript, 2017

FELLOWSHIPS & GRANTS

Social Good Fellowship

September 2017 - Present

GW Innovation Center

Data MASTER Fellowship

May 2017 - May 2019

GW Mathematics And Statistics Training, Education, and Research Program

Sigelman Undergraduate Research Enhancement Award

October 2018

George Washington University

HONORS & AWARDS

- Dean’s List, George Washington University, *2017-18 & 2018-19*
- Presidential Scholarship with Honors, George Washington University, *May 2017 - Present*
- Outstanding Academic Achievement Award, George Washington University, *May 2019*
- 2nd Prize, Politics & Economics, GW Research Days Poster Competition, *April 2019*
- Strasser Writing Prize, GW Honors Program, *January 2018*
- National Merit Scholarship, *May 2017*

PRESENTATIONS

- “Machine Learning Document Classification,” *GW ACM*, November 2018.
- “The Practice and Promise of Open Source Intelligence and Computational Security Studies,” *International Studies Association South*, Orlando, 2017.