

Will Epperson

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EDUCATION:

Georgia Institute of Technology, Atlanta, GA

August 2016 – Present

- Candidate for Bachelor of Science in Computer Science
- Threads in Intelligence and Modeling / Simulation

Expected Graduation: May 2020

GPA: 4.0

PUBLICATIONS:

FairVis: Visual Analytics for Discovering Intersectional Bias in Machine Learning

January 2019 – August 2019

- Designed and developed visual analytics system for discovering biases in Machine Learning models
- Angel Cabrera, Will Epperson, Fred Hohman, Minsuk Kahng, Jamie Morgenstern, Duen Horng (Polo) Chau.
“FairVis: Visual Analytics for Discovering Intersectional Bias in Machine Learning.” IEEE Conference on Visual Analytics Science and Technology (VAST). Vancouver, Canada, 2019. *arXiv*: [1904.05419](https://arxiv.org/abs/1904.05419).

AWARDS:

President’s Undergraduate Research Award (PURA)

August 2019

- Awarded \$1,500 grant from Georgia Tech to support work on FairVis project and related research.

Stamps President’s Scholar

August 2016 – May 2020

- Full ride scholarship including money for enrichment activities awarded to 40 incoming freshmen at Georgia Tech.

RESEARCH EXPERIENCE:

Polo Club of Data Science Atlanta, GA

January 2019 – Present

Undergraduate Researcher

- Conducted research on novel human computer interaction and visualization techniques to make Machine Learning models more equitable.

Automated Algorithm Design Atlanta, GA

January 2018 – May 2019

Undergraduate Researcher

- Worked on EMAD algorithm design engine to implement sentiment analysis pipeline to analyze news articles to aid in predicting stock price movements using genetic algorithms.
- Led project to visualize the genetic algorithm evolution process.

INDUSTRY EXPERIENCE:

Point72 Asset Management New York, NY

June 2019 – August 2019

Market Intelligence Data Analytics

- Worked as Data Scientist in alternative data space to clean, model, and understand large datasets.

Ultimate Software Weston, FL

May 2018 – August 2018

Software Development Intern, Innovation Strategies Team

- Designed and developed a Slack app for the UltiPro HR management tool that allows users to perform core functions like requesting time off and giving feedback directly from Slack. App published to Slack app store.
- Used Typescript, NodeJS, MongoDB, and unit testing frameworks.

The Home Depot Atlanta, GA

May 2015 – August 2015

Software Development Intern

- Developed Web App for tracking candidate progress throughout the hiring process for internal HR use.
- Worked in Java, HTML, CSS, JavaScript, MySQL, and related technologies.

PROJECTS:

ICLR'19 Reproducibility Challenge

December 2018

- Implemented the architecture and reproduced results for an ICLR'19 submission using GANs to decorrelate sensitive data, titled “Generative Adversarial Models for Learning Private and Fair Representations”

Atlanta Crime Map

January 2018 – December 2018

- Led a team as part of Data Science Club at GT to create a predictive policing tool to help the campus police department in using their data to predict crime in and around campus.

Citadel Datathon

February 2018

- Created supervised learning system to predict dangerous road areas to help make cities safer at Citadel and Correlation One's Datathon at Georgia Tech. Team placed top 3.

RECONSO Research

February 2017 – December 2017

- Developed interface between core state machine and battery systems on Avionics team of student-led cube satellite project. Learned C while working on project.

LEADERSHIP & ACTIVITIES:

Georgia Tech Alumni Association – Student Ambassador

January 2019 – Present

- Serve as official representative of the Institute at events/tours for alumni, prospective students, and special guests.

Stamps Scholars National Convention – Threads Co-chair

January 2018 – May 2019

- Executive board member of Stamps Scholars National Convention, a 3-day conference with over 700 student attendees.
- Responsible for 20-person committee that plans and coordinates the different content threads of the convention.

Undergrad Teaching Assistant

August 2017 – December 2018

- TA for CS4400 – Intro to Database Systems focusing on relational database design and SQL.
- Responsibilities include office hours, grading, and project creation.

SKILLS:

Languages: Python, Java, C, MySQL, HTML, CSS, JavaScript (with React and D3), Typescript

Programs & Frameworks: macOS, Microsoft Windows, Ubuntu Linux, Tableau, Git, Scikit-learn

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Computer Architecture, Algorithms

Foreign Languages: Advanced Spanish