

Hailey James

CURRICULUM VITAE — NOVEMBER 2022

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EDUCATION	University of California San Diego PhD Student Computer Science Advisor: Berk Ustun Research Topics: Human-Centered Machine Learning, Interpretability, Participatory Design Relevant Coursework: Statistical Learning; Deep Generative Models; Graduate Machine Learning; Trustworthy Machine Learning; Interpretable & Explainable Machine Learning; Computer Security & Privacy; Harvard University BA in Computer Science, Cum Laude in Field Relevant Coursework: Advanced Topics in Data Science; Intro to Machine Learning; Critical Thinking in Data Science; Data Science I; Research Topics in Human-Computer Interaction; Probability; Theory of Networks; Theory of Computation; Programming Fundamentals; Functional Programming; Linear Algebra; Privacy and Technology; Discrete Mathematics	PRESENT GPA: 4.0/4.0 MAY 2019 Major GPA: 3.8/4.0
INDUSTRY EXPERIENCE	Twitter Cortex <i>Machine Learning Research Engineer, User Modeling</i> Investigated edge utility and impact on user experience using statistical methods and historical data Developed a scalable personalized value scoring pipeline for user recommendations using Python, BigQuery, and GCP Lendbuzz <i>Machine Learning Engineer</i> Explored methods for explainability in risk-score approximation models Developed and deployed three novel computer vision methods for detecting manipulations in digital documents using Python, Pytorch, and Tensorflow, improving upon current state-of-the-art methods Submitted each of these research projects to AI/ML conferences (currently in submission) Facebook <i>Software Engineering Intern</i> Investigated content moderation for financial fraud and scam using human-AI cooperation Built reviewing interface for human reviewers to measure model performance and create training data using Hack (PHP), Python	MAY 2021 – OCT 2021 OCT 2019 – MAY 2021 JUN 2018 – SEP 2018
AWARDS & HONORS	United States Presidential Scholar Oracle Computing Research Scholarship Patel Teaching Fellowship Bill and Melinda Gates Foundation Scholarship Horatio Alger State Scholarship John. V. Kelleher Book Prize	2013 2017 2018 2013 – 2019 2013 – 2019 2019
PUBLICATIONS	<div>Google Scholar</div> <ol style="list-style-type: none">Participatory Systems for Personalized Prediction Hailey James, Chirag Nagpal, Katherine Heller, Berk Ustun <i>NeurIPS Workshop on Trustworthy and Socially Responsible Machine Learning</i>, 2022Probabilistic Bias Mitigation in Word Embeddings Hailey James, David Alvarez-Melis <i>NeurIPS Workshop on Human-Centric Machine Learning</i>, 2019	

3. [Learning Document Graphs with Attention for Image Manipulation Detection](#)

Hailey James, Otkrist Gupta, Dan Raviv

ICPRAI International Conference on Pattern Recognition and Artificial Intelligence, 2022

4. [Printing and Scanning Investigation for Image Counter Forensics](#)

Hailey James, Otkrist Gupta, Dan Raviv

EURASIP Journal on Image and Video Processing, 2021

LEADERSHIP & SERVICE

AddisCoder

2019

Lecturer and Teaching Assistant

Created curriculum, gave lectures, and worked individually with students in summer computer science course for 180 top Ethiopian high school students

Led 40 teaching assistants in course planning, curriculum development, and student instruction

Was promoted to lecturer part-way through the program

Harvard Patel Fellow

2018

Teaching Fellowship

Led teaching staff in implementing pedagogical practices to support students of diverse backgrounds

Taught functional programming to students in individual and small-group sessions 5-7 days per week

Employed data management practices to track student progress and validate pedagogical choices

Harvard Women in Computer Science (WiCS)

2017

Community Director

Planned and coordinated events for Harvard Women in Computer Science (WiCS)

Supported community-building activities and outreach efforts with faculty and other affinity groups

PERSONAL

Citizenship United States and Canada

Languages Fluent in English and French

Software Proficient in Python, PyTorch, Tensorflow, OCaml & SQL. Familiar with Java & PHP.

Organizations GradWIC (Graduate Women in Computing), oSTEM (LGBTQIA+ in STEM)

Interests Open-Water Swimming, Cycling, Squash and Steel Drum