

Markelle Kelly

COMPUTER SCIENCE PHD STUDENT

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Research Interests

I aim to research machine learning and its intersections with software and social justice. In particular, I am interested in constructing systems and tools for more interpretable, interactive, and accountable machine learning.

Education

B.S. IN STATISTICS 09/2016 – 06/2020

California Polytechnic State University, San Luis Obispo • 4.0 GPA

M.S. IN COMPUTER SCIENCE 09/2020 – 03/2022

University of California, Irvine • 4.0 GPA

PH.D. IN COMPUTER SCIENCE 09/2020 – Present

University of California, Irvine

Research Positions

SOFTWARE ENGINEER INTERN 03/2018 – 06/2020

Project Jupyter

RESEARCH ASSISTANT 03/2019 – 06/2020

California Polytechnic State University, San Luis Obispo

GRADUATE STUDENT RESEARCHER 08/2020 – Present

University of California, Irvine

Publications

“Understanding Systematic Miscalibration in Machine Learning Classifiers”

Markelle Kelly & Padhraic Smyth

TREX @ IEEE VIS 2022

Fellowships & Awards

HPI RESEARCH CENTER FELLOWSHIP 07/2022

HPI Research Center in Machine Learning and Data Science at UCI

NOYCE FELLOWSHIP 01/2022

The Noyce Initiative at UCI

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| SUMMER FELLOWSHIP | 06/2021 |
| UCI Steckler Center for Responsible, Ethical, and Accessible Technology | |
| ENHANCED EXCELLENCE FELLOWSHIP | 09/2020 |
| UCI Computer Science Department | |
| DEAN'S AWARD | 09/2020 |
| UCI Computer Science Department | |
| GRADUATE DEAN'S RECRUITMENT FELLOWSHIP | 09/2020 |
| UCI Computer Science Department | |
| CLASS OF 2020 ACADEMIC EXCELLENCE AWARD | 06/2020 |
| Cal Poly College of Science and Math | |
| CAL POLY NOMINEE | 05/2019 |
| Mu Sigma Rho National Statistics Honorary Society | |
| BEST VISUALIZATION | 04/2019 |
| UCLA DataFest | |
| PRESIDENT'S LIST | 2016-2019 |
| California Polytechnic State University | |
| OUTREACH SCHOLARSHIP | 2016-2020 |
| California Polytechnic State University | |

Presentations

INVITED TALK • “Building a Single-Document Jupyter Application with Lab Components”
 BERKELEY INSTITUTE FOR DATA SCIENCE 2019

POSTER • “Let’s ToC about Tags”
 JUPYTERCON 2018

Highlighted Open-Source Projects

CONTRIBUTOR • JupyterLab

Web-based environment for reproducible, interactive computing
github.com/jupyterlab/jupyterlab

CORE CONTRIBUTOR • JupyterLab celltags

JupyterLab extension for manipulating tags in cell metadata
github.com/jupyterlab/jupyterlab-celltags

CORE CONTRIBUTOR • JupyterLab Table of Contents

JupyterLab extension that generates interactive tables of contents for notebooks
github.com/jupyterlab/jupyterlab-toc

CORE CONTRIBUTOR • Jupyter Clarity Mode

Modernized, single-document Jupyter Notebook interface

github.com/jupytercalpoly/jupyterlab-clarity-mode

CONTRIBUTOR • Jupyter Notebook Research

Scraping and analysis of public Jupyter notebooks on GitHub

github.com/jupyter-resources/notebook-research

Teaching & Academic Service

UCI TEACHING ASSISTANT • Project in AI

09/2022 – 12/2022

REVIEWER • NeurIPS Datasets and Benchmarks Track

07/2022

WORKSHOP ASSISTANT • MolSSI Data Analysis Workshop

07/2019

CAL POLY TEACHING ASSISTANT • Honors Calculus III & IV

01/2018 – 06/2018