Isadora White

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Education

University of California, San Diego	2024 -
PhD in Computer Science advised by Lianhui Qin and Prithviraj Ammanabrolu	

University of California, Berkeley	2024
Honors B.A. in Computer Science and Applied Math	*GPA: 3.95/4.0*

Awards and Honors

NSF GRFP Honorable Mention	2024
Percy Lionel Davis Award for Excellence in Scholarship in Mathematics	2024
EECS Honors Program at Berkeley	2024
DAAD RISE Germany Scholarship	2022
Berkeley Dean's List (top 10% of my class)	Fall 2020, Fall 2022, Spring 2023, Spring 2024

Papers

Communicate to Play: Pragmatic Reasoning for Efficient Cross-Cultural Communication	Aug. 2024

Isadora White, Sashrika Pandey, Michelle Pan
EMNLP 2024 Findings

LMRL Gym: Benchmarks for Multi-Turn Reinforcement Learning with Language Models	Nov. 2023

Marwa Abdulhai, **Isadora White**, Charlie Victor Snell, Charles Sun, Joey Hong, Yuexiang Zhai, Kelvin Xu, Sergey Levine
Generative Models for Decision Making Workshop at ICLR 2024, In Submission as a Conference Paper

Research Experience

Research Assistant, Berkeley AI Research	2023 - 2024
Advised by Prof. Sergey Levine	

- Designed text-based chess and maze benchmark tasks to test complex strategic reasoning in language models and RL algorithms
- Evaluated reinforcement learning with language baselines and tuned hyperparameters for efficiency and stability
- Utilizing implicit feedback from dialogue for improved collaboration with humans through conversation

Research Assistant, DAAD RISE Germany, University of Muenster	May 2022 - Sep. 2022
Advised by Prof. Joerg Becker and Kilian Mueller	

- Compared efficacy of fine-tuned single language and multi-language BERT and T5 language models for comment moderation
- Mechanistic Interpretability and attention rollouts to explain predictions of the T5 classifier
- Identified and mitigated biases in the predictions of the automated content moderation system

Undergraduate Research Apprentice, Cardiac Vision Lab	Feb. 2021 - May 2021
Advised by Prof. Jan Christoph	

- Mitigated motion artifacts in videos of hearts using PWC-Net architecture, trained PWC-Net in TensorFlow
- Visualized predicted motion of the trained model, modified architecture for improved precision of predictions
- Generated data for data augmentation and better generalization using 2D simulations of the heart

Work Experience

Software Development Intern, AWS AI: Lookout for Metrics	Aug. 2021 - Dec. 2021

- Detected outliers in time series data using the unsupervised learning technique Random Cut Forest (RCF)
- Visualized the detected outliers, analyzed false positives, experimented with new applications
- Developed AWS infrastructure to build a pipeline for outlier detection on new use cases

Machine Learning Intern, Informatica	Jun. 2021 - Aug. 2021
With Prof. AnHai Doan	

- Implemented querying strategy for selection of unlabeled examples to label for active learning
- Developed stopping strategy and empirically determined stopping point to efficiently utilize crowd-worker labeled examples
- Improved F1 score by over 5% on all datasets for business term glossary association