

MARA LEVY

2125 14th Street NW, Washington DC, 20009

312-405-0757

mlevy@umd.edu

EDUCATION

University of Maryland

Pursuing Ph.D. in Computer Science

Advisor: Abhinav Shrivastava

College Park, MD

September 2019 - Present

University of Pennsylvania

School of Engineering and Applied Science - Bachelor of Science in Engineering

Major: Computer and Information Science Minor: Mathematics

Cumulative GPA: 3.84 / 4.00 (Summa Cum Laude and Tau Beta Pi)

Philadelphia, PA

May 2019

RESEARCH EXPERIENCE

University of Maryland Institute for Advanced Computer Studies

Graduate Research Assistant

College Park, MD

Advisor: Abhinav Shrivastava

- Addressing robotic interaction with dynamic environments where changes in the environment are independent of the agent
- Utilizing waypoint information to do imitation learning from a small number of examples with limited information

University of Pennsylvania: GRASP Lab

Undergraduate Research Assistant

Philadelphia, PA

Advisor: Kostas Daniilidis

- Used temporal video data to improve current key point detection done by "6-DoF Object Pose from Semantic Keypoints"
- After the data was improved we retrained the model to better image position estimates

University of Pennsylvania: "Crowdsourcing and Human Computation"

Undergraduate Research Assistant

Philadelphia, PA

Advisor: Chris Callison-Burch

- Used crowd-sourced data and programmatic analysis to identify and summarize key attributes of privacy policies
- Won best final project of 40+ projects and received \$10,000 in research funding to increase span of project
- Paper was accepted as a work in progress paper to HCOMP 2017

PUBLICATIONS

Active Region Video Diffusion for Universal Policies

Shuaiyi Huang, Mara Levy, Zhenyu Jiang, Anima Anandkumar, Yuke Zhu, Linxi Fan, De-An Huang, Abhinav Shrivastava

Under Submission

WAYEX: Waypoint Exploration using a Single Demonstration

Mara Levy, Nirat Saini, Abhinav Shrivastava

ICRA 2024

Coarse-to-Fine Human Mesh Recovery with Transformers

Vatsal Agarwal, Mara Levy, Max Ehrlich, Youbao Tang, Ning Zhang, Ruei-Sung Lin, Abhinav Shrivastava

Under Submission

V-VIPE: Variational View Invariant Pose Embedding

Mara Levy, Abhinav Shrivastava

CVPR Workshop 2024

No-frills Dynamic Planning using Static Planners

Mara Levy, Vasista Ayyagari, Abhinav Shrivastava

ICRA 2021

PROFESSIONAL EXPERIENCE

Amazon

Research Scientist Intern

Arlington, VA

May 2022 - November 2022

- Worked as a part of the Alexa Prize Team
- Researched Human Pose Estimation in order to enable Alexa devices to correct pose when teaching a skill

University of Maryland, Department of Computer Science

Teaching Assistant - Introduction to Algorithms (CMSC 351)

College Park, MD

September 2019 - December 2019

- Held office hours twice a week to assist undergraduate students with class material

Flatiron Health

Software Engineering Intern

New York City, NY

June 2018 - August 2018

- Worked as a part of the Learning Healthcare Platform team to improve data flow within the company
- Designed a Flask app to query information about the current state of pipelines and help engineers debug

Google

Software Engineering Intern

Mountain View, CA

May 2017 - August 2017

- Worked as a part of the Google Lens Team on Google's Android Search App (AGSA)
- Assisted in writing a server that connects the mobile application to a shared backend