

Laura Zheng

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EDUCATION

University of Maryland

Computer Science PhD Student

College Park, MD

Aug. 2020 – Present

University of Maryland

B.S. in Computer Science

College Park, MD

Aug. 2016 – Dec 2019

WORK EXPERIENCE

Intern

NASA Goddard Space Flight Center / ADNET Systems

June 2019 - Aug 2020

Greenbelt, MD

- Developed a publication metadata data collection pipeline for scientists at Goddard
- Applied named entity recognition and relationship extraction natural language processing models on research literature text for knowledge base construction
- Attended various Geoscience academic conferences to present my group's work

CRA-W DREU in Autonomous Driving

University of North Carolina at Chapel Hill

May 2019 – July 2019

Chapel Hill, NC

- Researched and developed vehicle accident scenarios in Unity Game Engine

PUBLICATIONS

Google Scholar: <https://scholar.google.com/citations?hl=en&user=kGUj-dIAAAAJ>

Differentiable Agent-based Traffic Simulation

- Ongoing research project under Dr. Ming Lin

Improving Generalization of Transfer Learning in Autonomous Driving

ICRA 2022

- Shivam Akhauri, **Laura Zheng**, Tom Goldstein, Ming Lin
- Project website: <https://gamma.umd.edu/stltransfer>
- *Currently under review for ICRA 2022*

Gradient-Free Adversarial Training Against Image Corruption for Learning-based Steering

NeurIPS 2021

- Yu Shen, **Laura Yu Zheng**, Manli Shu, Weizi Li, Tom Goldstein, Ming Lin

Enhanced Transfer Learning for Autonomous Driving with Systematic Accident Simulation

IROS 2020

- Shivam Akhauri, **Laura Zheng**, Ming Lin
- Project website: <https://gamma.umd.edu/etladsas>

Understanding ML in Earth Science: A Natural Language Processing Approach

AGU 2019

- **Laura Zheng**, Arif Albayrak, William Teng, Mohammad Khayat, Long Pham

TEACHING

CMSC 420 - Data Structures

Fall 2021

CMSC 320 - Introduction to Data Science

Spring 2021

CMSC 131 - Introduction to Object-Oriented Programming

Fall 2020

TECHNICAL SKILLS

Languages: Python, Java, C#, Racket, C/C++

Developer Tools: Git, VS Code, Visual Studio, Eclipse, Sphinx Documentation, Anaconda