

Eugene, OR, 97405
najmulhassan1628@gmail.com

Najmul Hassan

Personal Website
GitHub: najhassan
LinkedIn: najhassan

WORK EXPERIENCE

Research Assistant

UO Machine Learning Lab

09/2023 - present

Eugene, OR

- Working on defending adversarial attacks on Machine learning models.
- Accelerating Influence Estimation in Computer Vision.

Computer Vision Intern

SRI International

06/2023 - 06/2023

Princeton, NJ

- Worked on low-light Object Detection and unsupervised Domain Adaptation.
- Incorporated state-of-the-art unsupervised domain adaptation techniques combining with faster models to make the whole process faster maintaining negligible drop in performance.

Research Assistant

SHI Labs

03/2021 - 06/2023

Eugene, OR

- Worked on Computer Vision and Deep Learning. I have recently worked on object detection and tracking, segmentation, image matting, etc.
- Worked on an IARPA-funded project that included responsibilities like data analysis, designing, training, and deploying object detection models.
- Worked on agriculture-vision, co-organized workshop in conjunction with CVPR, and maintained a challenge in codalab.

Teaching Assistant

University Of Oregon

01/2023 - Present

Eugene, OR

- Machine Learning for Data Science (CS372M).
- Intermediate Algorithms (CS315).
- Computer Science I (CS210).

Visiting Researcher

Osaka Prefecture University

12/2019 - 01/2020

Sakai, Japan

- Worked on confidence estimation from handwriting.
- Collected data from human subjects using i-pads and studied the relation with hand writing confidence.

EDUCATION

MS of Computer Science

University Of Oregon

2021 - 2024(expected)

Bachelor of Electrical and Electronics Engineering

University Of Dhaka

2014 - 2018

SKILLS

Programming	Pytorch, Python, C++, SQL
GPU systems	Kubernetes, Talapas
Software	R, Matlab, WEKA, Workbench
Operating System	Linux, macOS, Windows

RECENT SERVICES AND AWARDS

- UO Promising Scholar Award.
- Organized Agriculture-Vision Challenge and Workshop in conjunction with CVPR 2021,2022,2023.
- Frequent reviewer at CVPR, ICCV, IJCV,TCSVT.

PUBLICATIONS

- Liu, Feng, Ryan Ashbaugh, Nicholas Chimitt, Najmul Hassan, Ali Hassani, Ajay Jaiswal, Minchul Kim et al. "FarSight: A Physics-Driven Whole-Body Biometric System at Large Distance and Altitude." Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2024.
- Yu, X., Chen, P., Wu, D., Hassan, N., Li, G., Yan, J., ... Han, Z. (2022). Object localization under single coarse point supervision. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 4868-4877).
- Chen, P., Yu, X., Han, X., Hassan, N., Wang, K., Li, J., ... Ye, Q. (2022, November). Point-to-Box Network for Accurate Object Detection via Single Point Supervision. In Computer Vision–ECCV 2022: 17th European Conference, Tel Aviv, Israel, October 23–27, 2022, Proceedings, Part IX (pp. 51-67). Cham: Springer Nature Switzerland.