

Maan Qraitem

mqraitem@outlook.com |  @mqraitem

EDUCATION

Boston University

Masters/Ph.D in Computer Science

Boston, MA

Sep 2020 – Now

- **Advisors:** Kate Saenko and Bryan A. Plummer
- **Relevant Coursework:** Computer Vision, Deep Learning, Multimodal Learning, Advanced Optimization.

Colby College

B.A in Computer Science and Statistics; GPA: 3.97 (Summa Cum Laude)

Waterville, ME

Sep 2016 – May 2020

PUBLICATIONS

- [From Fake to Real: Pretraining on Balanced Synthetic Images to Prevent Bias](#): Maan Qraitem, Kate Saenko, Bryan A. Plummer. In Submission.
- [Bias Mimicking: A Simple Sampling Approach for Bias Mitigation](#): Maan Qraitem, Kate Saenko, Bryan A. Plummer. CVPR 2023.
- [From Coarse to Fine-grained Concept based Discrimination for Phrase Detection](#): Maan Qraitem, Bryan A. Plummer. CVPR Workshop on Computer Vision in the Wild 2023.
- [Bridging the gap: Machine learning to resolve improperly modeled dynamics](#): Maan Qraitem, Dhanushka Kularatne, Eric Forgoston and M. Ani Hsieh. Physica D Journal 2020.
- [Real-time physics-based removal of shadows and shading from road surfaces](#): Bruce A. Maxwell, Casey A. Smith, Maan Qraitem, Ross Messing Spencer Whitt, Nicolas Thien Richard M. Friedhoff. CVPR Workshop on Autonomous Driving 2019.

EXPERIENCE

Boston University

PhD Candidate

Boston, MA

Sept 2020 – Now

- Research detection and mitigation of spurious correlations in Computer Vision models. My work was published in CVPR and CVPR workshops.

Iteris Inc

Machine Learning Research Intern

Santa Ana, Cal

May 2020 – Aug 2020

- Implement a Graph Neural Nets for traffic prediction which incorporates spatiotemporal traffic data. The method improved performance over in house model by 20%
- Incorporate weather data into the model through an additional CNN branch improving performance by 10%

GRASP Lab, University of Pennsylvania

Research Intern

Philadelphia, PA

May 2019 – Aug 2019

- Design and Train Spatio-temporal Recurrent Deep Learning models that effectively bridge the gap between inaccurate equations and ground truth observations
- Generate Spatio-temporal data from variances of the Navier Stokes equations using finite difference solvers.

Bigelow Lab/Colby College

Research Intern

Waterville, ME

May 2018 – Aug 2018

- Develop bio diversity vision monitoring systems for coral reefs using state of the art Deep Learning classification and tracking system
- Supervise collecting an image dataset of labeled fish species.

SKILLS

Programming: Python (Primary) C, C++ (Secondary)

Frameworks: Pytorch, Tensorflow, Numpy, Pandas, Git.

AWARDS & ACHIEVEMENTS

Charles A. Dana Scholar Colby College

Rhodes Scholarship Finalist Colby College