**Matt Wallingford**

Seattle, Washington

(714)-352-1146

mcw244@cs.washington.edu

**Education**

**UNIVERSITY OF WASHINGTON** *2019-Present*

*PhD in Computer Science*

GPA: 3.85

**CORNELL UNIVERSITY** Sept 2013-May 2019

*Master of Science in Computer Science, May 2019*

*Bachelor of Arts in Mathematics, May 2017*

**Publications**

**In the Wild: From ML Models to Pragmatic ML Systems**

*Under Review (Neurips 2020)*

**RoboThor: An Open Simulation-to-Real Embodied AI Platform**

*Conference on Computer Vision and Pattern Recognition (2020)*

**Other Research**

**Low-Shot Semantic Segmentation**  *Sept 2018 – Present*

*Masters Thesis – Advised by Bharath Hariharan*

I investigate novel techniques for performing semantic segmentation given limited training examples.

**Adversarial Robustness of Bayesian GANs**  *Sept 2017 – Dec 2017*

*Graduate Research Project*

I evaluated the robustness of the Bayesian GAN against a range of adversarial attacks and investigated how various objective functions affected a GAN’s adversarial robustness.

**Supervised Learning in High Energy Physics** *Sept 2016 – May 2017*

*Undergraduate Research – Advised by Kilian Weinberger*

A pilot project to determine the effectiveness of supervised machine learning in identifying particle collisions from the Large Hadron Collider.

**Professional Experience**

## Microsoft Seattle, WA

*Software Engineering Intern May – Aug 2018*

* Developed and deployed an anomaly detection system from in order to detect issues in the Azure sign-in service
* Deployed a pilot recommendation system for Azure cloud services that recommends groups to join for Azure users

## Western digital Irvine, CA

*Data Analytics Intern May – Aug 2016*

* Designed and implemented a data pipeline for hard drive field data. The pipeline consisted of retrieving field data from multiple cloud storage systems, preprocessing it, and running various models to determine the likelihood of failure.

Laserfiche Long Beach, CA

*Data Analytics Intern May – Aug 2015*

* Developed predictive models in Python to estimate customer lifetime value and rate of customer loss

*Software Development Intern May – Aug 2014*

* Worked in C# with .NET to interface SQL databases with web applications