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Jaclyn Brockschmidt

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EDUCATION

University of Washington, Seattle

Bachelor's in Computer Science: Data Science

expected graduation June 2020

RESEARCH

On the Generality of Facial Forgery Detection with Jiacheng Shang, Jie Wu

Extended abstract and presented at REUNS 2019

Poster presented at 3rd Queer in AI affinity workshop at NeurIPS 2019

June 2019 to present

General Food Segmentation for Food Manipulation Applied to Robot-Assisted Feeding

Ongoing

September 2019 to present

Adaptive Robot-Assisted Feeding: An Online Learning Framework for Acquiring Previously-Unseen Food Items

Under review: ICRA 2020; arXiv:1908.07088

September 2019

Zero Shot Scene Modeling

Ongoing

September 2019 to present

Curiosity-based Exploration for Planning with POMDPs

February 2019 to June 2019

Man-made Object Detection With LiDAR Mapping Data

Assisted: Senior capstone project

March 2018 to April 2018

Visual Anchoring: Fixed-Wing UAS Orbit Stabilization About a Visual Anchor Point Without GPS Dependence

Acknowledgement: Master's thesis

September 2017 to December 2018

UAS Operation and Navigation in GPS-Denied Environments Using Multilateration of Aviation Transponders

Submitted: AIAA Scitech 2019 Forum; DOI: 10.2514/6.2019-1053

September 2017 to January 2019

AWARDS

Best Paper Award

November 2019

REUNS workshop at IEEE MASS 2019 for On the Generality of Facial Forgery Detection

2nd Place for Research Presentation Competition

July 2019

REU Research Symposium at Temple University for On the Generality of Facial Forgery Detection

EXPERIENCE

Personal Robotics Lab

Research Assistant

February 2019 to present

- Researching applications of computer vision to robotic perception
- Investigated curiosity as an intrinsic motivator for reinforced learning
- Worked with the Robot Operating System (ROS) on a bimanual manipulator

Pervasive Computing for Smart Health, Safety, and Well-being REU

Research Assistant

June 2019 to August 2019

- Explored the practicality of facial forgery detection applications
- Worked with generative adversarial networks (GANs) and utilized transfer learning
- Independently conducted research and compiled findings into a paper within a 10 week period
- Achieved 2nd place for final presentation

Autonomous Flight Systems Laboratory

Research Assistant

September 2017 to January 2019

- Project manager for data management application with 7 developers operating within an agile development framework
- Designed and assembled LiDAR mapping data collection system

iD Tech

Instructor

June 2018 to August 2018

- Taught machine learning (reinforced learning and image classification) and programming

SERVICE

Tacoma Public Library

Mentor

June 2015 to September 2016

- Taught programming to children age 7 to 17
- Researched and implemented learning aides

John Rogers Elementary School

Teacher's Assistant

September 2016 to November 2016

- Tutored 1st grade students in mathematics and reading

SKILLS

<i>Programming</i>	Proficient in Python, Java, HTML/CSS, Bash, C#, C Competent in Javascript, LaTeX, C++, PHP, Lua, XAML
<i>Software</i>	Linux, Git, MySQL, Visual Studio, Perforce, VMware, SolidWorks
<i>Mathematics</i>	Machine learning, statistics, linear algebra
<i>Frameworks</i>	PyTorch, Tensorflow, CUDA