# Daniel Gordon

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## Education

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|---|---|
| **The University of Washington** | 2014-Present |
| Ph. D. student in Computer Science | |
| **The University of Washington** | 2016 |
| Masters in Computer Science | |
| **Washington University in St. Louis** | Graduated May |
| Bachelor of Science in Computer Science | 2014 |
| Second Major in Entrepreneurship | |
| Summa Cum Laude – GPA: 3.96, Engineering Class Rank: 8/323 | |

## Publications

**ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks**　2019
Mohit Shridhar, Jesse Thomason, Daniel Gordon, Yonatan Bisk, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox

**SplitNet: Sim2Sim and Task2Task Transfer for Embodied Visual Navigation**　ICCV 2019
Daniel Gordon, Abhishek Kadian, Devi Parikh, Judy Hoffman, Dhruv Batra

**What Should I Do Now? Marrying Reinforcement Learning and Symbolic Planning**　2018
Daniel Gordon, Dieter Fox, Ali Farhadi

**Shifting the Baseline: Single Modality Performance on Visual Navigation & QA**　NAACL 2019
Jesse Thomason, Daniel Gordon, Yonatan Bisk　Short Paper

**IQA: Visual Question Answering in Interactive Environments**　CVPR 2018
Daniel Gordon, Aniruddha Kembhavi, Mohammad Rastegari, Joseph Redmon, Dieter Fox, Ali Farhadi
Received the Nvidia Pioneering Research Award at CVPR 2018

**AI2-THOR: An Interactive 3D Environment for Visual AI**　Technical
Eric Kolve, Roozbeh Mottaghi, Daniel Gordon, Yuke Zhu, Abhinav Gupta, Ali Farhadi　Report 2017

**Re3: Real-Time Recurrent Regression Networks for Object Tracking**　RA-L 2018
Daniel Gordon, Ali Farhadi, Dieter Fox

**Visual Semantic Planning using Deep Successor Representations**　ICCV 2017
Daniel Gordon, Yuke Zhu, Eric Kolve, Dieter Fox, Li Fei-Fei, Abhinav Gupta, Roozbeh Mottaghi, Ali Farhadi

**Collaborative Rephotography**
Ruth West, Abby Halley, Daniel Gordon, Jarlath O'Neil-Dunne, Robert Pless

SIGGRAPH
2013 Studio
Talks

**Collaborative Imaging of Urban Forest Dynamics: Augmenting Rephotography to Visualize Changes over Time**
Ruth West, Abby Halley, Jarlath O Neil-Dunne, Daniel Gordon, Robert Pless

IS&T/SPIE
2013

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## Service

**Co-organizer of 1st Workshop on Visual Understanding Across Modalities and THOR competition**
http://vuchallenge.org/

CVPR 2017

**Organizer of Deep Learning in Practice Seminar Talk Series**
https://sites.google.com/cs.washington.edu/deeplearninginpractice/

Summer 2017

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## Honors and Awards

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| **NVIDIA Graduate Fellowship** | 2019 |
| **National Science Foundation GRFP Honorable Mention** | 2015 and 2016 |
| **Wissner-Slivka Fellowship** | 2014 |
| **Achievement Rewards for College Scientists (ARCS) Fellowship** | 2014-2016 |
| **Outstanding Senior Award – Computer Science and Engineering** | 2014 |
| **Sigma Xi** | Inducted Spring 2014 |
| **Upsilon Pi Epsilon** | Inducted Fall 2013 |
| **Tau Beta Pi** | Inducted Fall 2012 |

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## Work Experience

**Facebook AI Research (FAIR):**                                                       Winter 2019
    Research Intern – A-Star Team with Dhruv Batra

**Allen Institute for Artificial Intelligence:**                                       Winter 2017
    Research Intern – Vision Team with Roozbeh Mottaghi
- Conducted research resulting in the paper Visual Semantic Planning using Deep Successor Representations

**Google:**

    Software Engineering Intern – Google Maps                         Summer 2013, Summer 2014
- Designed and programmed the Street View Time Machine frontend
- Increased polish and feature improvement on the new Maps frontend

    Engineering Practicum Intern – Google Wallet                      Summer 2012
- Integrated an autocomplete feature to the Wallet website
- Added Google+ profile images and names to various Wallet pages
- Created the Wallet dashboard page and recent transaction widget

**Washington University Department of Computer Science:**

Research Assistant for Professor Robert Pless

Fall 2011-
Spring 2014

- o Research transfer learning using handwriting recognition data
- o Maintain the RePhoto Android app: http://projectrephoto.com/
- o Find and parse webcam URLs for the AMOS database

**iEnable:**

iPhone App Programmer

Summer 2011

- o Created a location-based to-do list
- o Created a tennis court reservation system

## Teaching Experience

**Teaching Assistant at the University of Washington**

Introduction to Deep Learning: Head TA

Fall 2018, Fall 2019

- o Wrote Numpy-only library for deep learning assignments and autograder for grading
- o Managed 5 other Tas and 160 students

**Teaching Assistant at Washington University in St. Louis**

Introduction to Artificial Intelligence

Spring 2013, Spring 2014

Algorithms and Data Structures

Fall 2013

Logic and Discrete Mathematics

Fall 2012

Introduction to Computer Science

Fall 2010-Spring 2012

## Patents

**Providing a thumbnail image that follows a main image**

April 3, 2018

US Patent 9,934,222

**Display screen with graphical user interface or portion thereof**

March 14, 2017

US Patent D780,795

## Technical Skills

**Proficient in:** Java, Python, Caffe, TensorFlow, PyTorch, Matlab, Javascript, Google Closure, Git, HTML, CSS

**Capable in:** Android, C++, PHP, Mercurial, C#,

**Basic Knowledge:** CUDA, Objective-C/Cocoa, iPhone, MySQL, C, JQuery, LaTeX, Unix Terminal

## Open Source Repositories

**Deep Learning Class Numpy Library:** https://gitlab.com/danielgordon10/dl-class-2019a

**SplitNet:** https://github.com/facebookresearch/splitnet

**AI-Habitat:** https://github.com/facebookresearch/habitat-api

**AI2-THOR:** https://github.com/allenai/ai2thor
**Re3:** https://gitlab.com/danielgordon10/re3-tensorflow
**IQA:** https://github.com/danielgordon10/thor-iqa-cvpr-2018