Daniel Gordon

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https://danielgordon10.github.io/

Education

The University of Washington   2014-Present
   Ph. D. student in Computer Science   Expected Graduation May 2020
The University of Washington   2016
   Masters in Computer Science
Washington University in St. Louis   Graduated May 2014
   Bachelor of Science in Computer Science
   Second Major in Entrepreneurship
   Summa Cum Laude – GPA: 3.96, Engineering Class Rank: 8/323

Publications

Watching the World Go By: Representation Learning from Unlabeled Videos   Arxiv 2020
Daniel Gordon, Kiana Ehsani, Dieter Fox, Ali Farhadi

ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks   CVPR 2020
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   Arxiv 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

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

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

Honors and Awards

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

Work Experience

Facebook AI Research (FAIR):	Winter 2019
Research Intern – A-STAR Team with Dhruv Batra ○ Conducted research resulting in the ICCV publication "SplitNet: Sim2Sim and Task2Task Transfer for Embodied Visual Navigation"	
Allen Institute for Artificial Intelligence:	Winter 2017
Research Intern – PRIOR Team with Roozbeh Mottaghi ○ Conducted research resulting in the ICCV publication "Visual Semantic Planning using Deep Successor Representations"	
Google:	
Software Engineering Intern – Google Maps	Summer 2013, Summer 2014

- o Designed and programmed the Street View Time Machine frontend
- o Increased polish and feature improvement on the new Maps frontend

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

Washington University Department of Computer Science:

Research Assistant for Professor Robert Pless   Fall 2011-
- o Research transfer learning using handwriting recognition data   Spring 2014
- 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