Darryl Hannan

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Carrboro, NC

Education

University of North Carolina - Chapel Hill **August 2018 - Present**
Second Year PhD Student in Computer Science
Advisor: Mohit Bansal

Villanova University **August 2014 - May 2018**
B.S. in Computer Science
Minors: Cognitive Science and Classical Studies
GPA: 3.77

Research and Work Experience

University of North Carolina - Chapel Hill **August 2018 - Present**
Research Assistant/NSF Fellow
Research with Dr. Mohit Bansal spanning a variety of subfields in NLP, with an emphasis on multimodal processing and social bias detection/mitigation.

Los Alamos National Laboratory **May 2018 - August 2018**
Applied Machine Learning Fellow
Applied the sparse-coding model from the prior summer to language. Interested in exploiting top-down feedback to influence sentence-level representations.

Los Alamos National Laboratory **June 2017 - August 2017**
Student Research Scientist
Developed a neurologically plausible sparse deep generative autoencoder with Dr. Edward Kim and Dr. Garrett Kenyon.

Villanova University **September 2016 - May 2018**
Undergraduate Researcher
Research in computer vision with Dr. Edward Kim. Worked on a variety of independent projects, intersects with work done at Los Alamos.

TS Partners Inc. **June 2013 - June 2017**
Junior Java Developer
Ported hundreds of thousands of lines of code from a Delphi System to a web based Java application, and helped maintain this system as it was deployed.

Teaching Experience

Villanova University **August 2017 - December 2017**
Teaching Assistant for Platform-based Computing
Helped students review course material and complete programming assignments, evaluated and graded student work, and taught a class session.

Publications

[1] Darryl Hannan, Akshay Jain, and Mohit Bansal. ManyModalQA: Modality Disambiguation and QA over Diverse Inputs. *AAAI*, 2020.

[2] Edward Kim, Darryl Hannan, and Garrett Kenyon. Deep Sparse Coding for Invariant Multimodal Halle Berry Neurons. *CVPR*, 2018.

Posters

Emojis and Weather
CCSCNE 2018

Learning the McGurk Effect from Raw Input
Villanova CS Senior Poster Session - Class of 2018

Hierarchical Sparse Coding for Multimodal Deep Learning
IEEE Rebooting Computing 2017 and Villanova Undergraduate Poster Session 2017

Fellowships and Grants

NSF GRFP Fellowship
Competitive program that recognizes and supports outstanding graduate students in science, technology, engineering, and mathematics disciplines.

Applied Machine Learning Summer Research Fellowship
10-week summer program at Los Alamos National Laboratory (10% acceptance rate).

Villanova Research and Travel Grant
Funding supported work at Los Alamos during the summer of 2017.