Darryl Hannan

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Carrboro, NC

Education

University of North Carolina - Chapel Hill **August 2018 - Present**
First 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 **May 2018 - Present**
Research Assistant
Research with Dr. Mohit Bansal spanning a variety of subfields in NLP, with an emphasis on multimodal processing.

Los Alamos National Laboratory **June 2017 - Present**
Student Research Scientist
Developed a neurologically plausible sparse deep generative autoencoder with Dr. Edward Kim and Dr. Garrett Kenyon. Applying the sparse-coding model from the prior summer to language. Interested in exploiting top-down feedback to influence sentence-level representations.

Villanova University **September 2016 - May 2018**
Undergraduate Researcher
Research in computer vision with Dr. Edward Kim. Worked on a variety of independent projects, including a continuation of 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
Helped students review course material and complete programming assignments, evaluated and graded student work, and taught a class session. Course was platform-based computing; included advanced Java programming and web-development using Node.JS and Raspberry Pis.

Publications

[1] 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

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.

Professional Organizations

IEEE **2017 - Present**
Student Member

ACM **2017 - Present**
Student Member