

# Darryl Hannan

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## Education

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### University of North Carolina - Chapel Hill

*PhD in Computer Science*

August 2018

### Villanova University

*B.S. in Computer Science*

Minors: Cognitive Science and Classical Studies

GPA: 3.77

August 2014 - May 2018

## Research and Work Experience

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### Los Alamos National Laboratory

*Student Research Scientist*

Applying the sparse-coding model from the prior summer to language. Interested in exploiting top-down feedback to influence sentence-level representations.

May 2018 - Present

### Villanova University

*Student Researcher*

Independently worked on several projects over the school year, including an extension of our work from the summer.

August 2017 - May 2018

### Los Alamos National Laboratory

*Student Research Scientist*

Developed a neurologically plausible sparse deep generative autoencoder with Dr. Edward Kim and Dr. Garrett Kenyon.

June 2017 - August 2017

### Villanova University

*Student Researcher*

Research in computer vision with Dr. Edward Kim.

September 2016 - June 2017

### TS Partners Inc.

*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.

June 2013 - June 2017

## Teaching Experience

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### Villanova University

*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.

August 2017 - December 2017

## **Publications**

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

## **Posters**

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### **Emojis and Weather**

*CCSCNE 2018*

### **Learning the McGurk Effect from Raw Input**

*Villanova CS Senior Poster Session*

### **Hierarchical Sparse Coding for Multimodal Deep Learning**

*IEEE Rebooting Computing 2017 and Villanova Undergraduate Poster Session*

## **Honors and Awards**

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### **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 the work at Los Alamos during the summer of 2017

## **Professional Organizations**

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IEEE

ACM