# Darryl Hannan

## Data Scientist

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## Work Experience

### Research Assistant

**University of North Carolina at Chapel Hill**

📅 August 2018 - August 2021 · 📍 Chapel Hill, North Carolina

- Used web scraping and crowdsourcing tools to collect and label new multi-modal datasets.
- Applied existing state-of-the-art machine learning and statistical techniques to acquire data insights and establish baselines.
- Worked efficiently independently on open-ended problems without clear solutions.

### NLP Research Intern

**Tencent AI Lab (US)**

📅 Summer 2020 · 📍 Seattle, Washington

- Worked with a team of researchers on using dialogue generation to improve conversational QA.
- Quickly adapted and contributed to these previously unfamiliar domains using generative language techniques and the Transformers library.

### Applied ML Fellow/Student Research Scientist

**Los Alamos National Laboratory**

📅 Summer 2017 and 2018 · 📍 Los Alamos, New Mexico

- Learned an unfamiliar framework, Petavision, to develop a biologically plausible multimodal generative autoencoder (publication at CVPR 2018).
- Applied biologically-inspired sparse-coding techniques to language, seeking to utilize top-down feedback to improve sentence-level representations.
- Took part in a summer lecture series covering various machine learning techniques and exposing students to interesting application areas in the lab.

### Junior Java Developer

**TS Partners Inc.**

📅 June 2013 - June 2017 · 📍 King of Prussia, Pennsylvania

- Ported hundreds of thousands of lines of code from a Delphi shareholder system to a web based Java application, and helped maintain this system as it was deployed.
- Used Oracle SQL to maintain shareholder records and provide automatically generated reports to customers.

## Education

### Masters of Science in Computer Science

**University of North Carolina at Chapel Hill**

📅 August 2018 – May 2021

📍 Chapel Hill, North Carolina

### Bachelors of Science in Computer Science

**Villanova University**

📅 August 2014 – May 2018

📍 Villanova, Pennsylvania

GPA: 3.77

## Summary

Masters graduate seeking full-time remote employment, starting in mid-August, as a data scientist.

## Areas of Expertise

- Machine Learning
- Natural Language Processing
- Computer Vision
- Data Collection and Visualization

## Technical Skills

- Python (PyTorch, Keras, NumPy, Pandas, SciKit-Learn, Matplotlib, Beautiful Soup, NLTK, Spacy, OpenCV)
- Linux
- Java
- Git
- SQL (Oracle)
- Amazon Mechanical Turk

## Awards

- National Science Foundation GRFP Fellowship ( 15% acceptance)
- Applied Machine Learning Summer Research Fellowship ( 10% acceptance)
- Villanova Center for Research and Fellowships Research and Travel Grant

## Papers/Projects

- Improving Generation and Evaluation of Visual Stories via Semantic Consistency (NAACL 2021)
- ManyModalQA: Modality Disambiguation and QA over Diverse Inputs (AAAI 2020)
- Deep Sparse Coding for Invariant Halle Berry Neurons (CVPR 2018)
- Emojis and Weather (CCSCNE 2018)
- Learning the McGurk Effect from Raw Input (Senior Project 2018)