

YangJunqing Qiao  
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**Address**  
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# YangJunqing Qiao

## CS Grad Student

**About Me** I am a multidisciplinary **mathematics and computer science student** with an interest in understanding, building, scaling, and advancing **systems for data driven solutions**. My main areas of focus are **machine learning and artificial intelligence** with a skill set biased towards designing, deploying, and upgrading **advanced statistical models**.

## Education

### University of Massachusetts, Amherst

MS in Computer Science (September 2018 - February 2020)

BS in Computer Science (September 2014 - June 2018)

BS in Mathematics (September 2014 - June 2018)

## Experience

### June 2019 - August 2019, Software Engineer Intern, Raytheon

Detailed achievements:

- **Decreased latency of operator commands** by parallelizing the main status polling thread of radar operating software
- **Streamlined software testing process** by developing a hardware emulator to simulate operator commands.
- **Increased the validity of standard testing procedure** by helping to identify and resolve long standing segfault bug.

### June 2017 - August 2017, Junior Investigator, REU UMass Amherst (funded by NSF)

Detailed achievements:

- Authored an unpublished survey paper detailing the **insights circuit and complexity theory have on the power and behavior of neural networks**
- Performed a great deal of both **directed and self directed research**.

## Projects

### 2019, Fake New Generation, NLP Final Project

Built a **transformer that learns** from a corpus of fake, inflammatory, and real news articles to generate either 'honest' or 'inflammatory' **headlines**. (Python, Pytorch, Google Colab)

### 2018, Gaussian Normalization, Neural Networks Final Project

Building on the idea of batch and copula normalization, I investigated and drew conclusions about the effectiveness of **normalizing an arbitrary layer of a neural network with a Gaussian distribution**. (Python, Pytorch, Google Colab)

## Skills

### Programming

- |        |         |          |
|--------|---------|----------|
| ◦ Java | ◦ Shell | ◦ Python |
| ◦ C++  | ◦ PHP   | ◦ Matlab |

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# Interests

## Professional

Data analysis, software design, economics, optimization, security,

## Personal

Violin, swimming, cooking