

Benjamin Bolte

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EDUCATION

EMORY UNIVERSITY

BACHELORS OF SCIENCE

MATH AND COMPUTER SCIENCE

May 2017 | Atlanta, GA

Dean's List

Dean's Achievement Scholarship

Cum. GPA: 3.86 / 4.0

MASTERS OF SCIENCE

MATH AND COMPUTER SCIENCE

May 2017 | Atlanta, GA

LINKS

Blog: benjaminbolte.com

Github: [codekansas](https://github.com/codekansas)

LinkedIn: [benjamin-bolte-37337686](https://www.linkedin.com/in/benjamin-bolte-37337686)

COURSEWORK

GRADUATE

Information Retrieval

Software Engineering

Computational Neuroscience

Computer Security

Systems Programming

UNDERGRADUATE

Computer Science:

Artificial Intelligence

Data Structures and Algorithms

Assembly Programming

Electronics and Microprocessors

Theory of Computing

Mathematics:

Numerical Analysis

Complex Variables

Linear Algebra

Differential Equations

Probability and Statistics

Neuroscience:

Introduction to Neurobiology

Neurophysiology Laboratory

PROJECTS

DEEP LANGUAGE MODELING FOR QUESTION ANSWERING USING KERAS

Implementations of multiple question-answering models using the popular Python deep learning framework Keras. Language models include a simple vector embedding model, a convolutional model, a recurrent model and an attentional recurrent model. I wrote an accompanying blog post which is available on my website.

Electric Longboard • Open Source 3D Printer • tDCS Brain Stimulator • Bluetooth Texting App • Smart Mirror

OPEN SOURCE CONTRIBUTIONS

KERAS

Popular deep learning framework written in Python.

- Added support for masking to **Merge** layer
- Added **all** command to backend

WORK EXPERIENCE

CADSP LAB | RESEARCHER

May 2015 - Present | Atlanta, GA

Cooperative Analog Digital Signal Processing Lab. Reverse engineered low-level IO code to communicate with FPAA board. Designed Android app to interact with FPAA chip with the goal of integrating low-power neuromorphic hardware with mobile devices. Designed several models for always-on voice recognition. Will present poster at ISCAS 2016.

Past: Sober Lab, Emory Center for Digital Scholarship

LEADERSHIP AND COMMUNITY ENGAGEMENT

- 2016 Teaching Assistant, Data Structures and Algorithms
- 2015 "Seeds of Sustainability" Alternative Spring Break
- 2014 Cognitively Based Compassion Training
- 2014 Co-ed Intramural Soccer Champions
- 2014 Computational Neuroscience Graduate Journal Club
- 2013 Emory Undergraduate Math Majors Association
- 2013 Raya Community Tutoring

AWARDS AND HONORS

- 2016 2nd round of Facebook Hacker's Cup
- 2016 3rd place, Mercer Programming Competition
- 2015 2nd place, ACM ICPC Southeast Regional Competition Div. B
- 2015 Google Code Jam qualifier
- 2014 Top 10 finisher at HackGT for Phonely web application
- 2014 Dean's Achievement Scholarship
- 2014 Computational Neuroscience Training Grant Trainee