

Audrey Beard

630-854-9620 • audrey.s.beard@gmail.com
AudreyBeard.com • github.com/AudreyBeard

Education

MS in Computer Science at [Rensselaer Polytechnic Institute](#) in Troy, NY Aug. 2017 - Aug. 2020
BS in Electrical Engineering at [Seattle University](#) in Seattle, WA Sept. 2014 - June. 2017

Professional Experience

Research Assistant at [Rensselaer Polytechnic Institute](#) in Troy, NY Jan. 2020 - Aug. 2020

- ▷ Formalized computer-assisted human annotation system for data labeling tasks
- ▷ Proposed novel metrics for human annotation effort and derived estimates using easily-computed proxies

Researcher at [Rensselaer Polytechnic Institute](#) in Troy, NY Jan. 2020 - Aug. 2020

- ▷ Led team of eight undergrads to develop CS curriculum that incorporates feminist and critical race theory into foundational CS curriculum
- ▷ Collected and analyzed qualitative data to examine negative impacts of traditional pedagogical models on LGBTQ+, POC, and women CS students

Computer Vision Research Intern at [The TRASH App](#) in Brooklyn, NY May 2019 - Aug. 2019

- ▷ Developed novel method for action modeling in images and videos by emulating language
- ▷ Produced semantically-significant action embeddings similarly to WordNet for retrieval and recommendation

Computer Vision Research Intern at [Kitware](#) in Clifton Park, NY May 2018 - Aug. 2018

- ▷ Implemented deep learning algorithm using PyTorch and other open-source machine learning libraries
- ▷ Adapted the YOLO object detector to improve human annotation error in satellite images

Software Development Engineer Intern at [98point6](#) in Seattle, WA June 2017 - Aug. 2017

- ▷ Learned TensorFlow, Keras, and Scikit-Learn to develop image-based skin condition diagnosis tool for small tele-health startup
- ▷ Balanced diagnostic accuracy, usability, and scalability to deliver proof-of-concept and presented work to each PM's, doctors, and executives

Research Assistant at [Seattle University](#) in Seattle, WA Sept. 2016 - June 2017

- ▷ Built background segmentation and image classification pipeline for 94% accuracy
- ▷ Published results in the 2017 [IEEE Global Conference on Signal and Information Processing](#)

Researcher at [Florida Institute of Technology](#) in Melbourne, FL May 2016 - July 2016

- ▷ Selected for competitive [NSF REU](#) to classify time-domain signals and developed novel feature extraction technique.
- ▷ Published in the 2017 [International work-conference on Time-Series Analysis](#) and selected for the 2017 edition of Springer's [Contributions to Statistics](#)

Skills and Qualifications

- ▷ Python (focused on DS and ML)
- ▷ C/C++
- ▷ Bash scripting
- ▷ MATLAB
- ▷ SQL
- ▷ Deep learning R&D
- ▷ Quantitative experimentation
- ▷ Qualitative analysis
- ▷ Curriculum design
- ▷ Image processing
- ▷ Project management
- ▷ Public speaking
- ▷ Open-source contribution
- ▷ Technical writing
- ▷ Team leadership

Relevant Coursework

- ▷ Computational Vision
- ▷ Machine Learning
- ▷ Parallel Computing
- ▷ Distributed Systems
- ▷ Algorithm Analysis & Design
- ▷ Digital Signal Processing
- ▷ Programming Languages
- ▷ Computer Operating Systems
- ▷ Data Structures