

Shang Gao

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Github: <https://github.com/iamshang1/Projects>

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Oak Ridge National Laboratory – Research Intern, Oak Ridge, TN

Jan 2017 – Present

- Achieved state-of-the-art performance in automated classification of cancer pathology reports for the National Cancer Institute using Hierarchical Attention Networks, a deep learning model based on LSTM recurrent neural nets
- Developed novel method for pretraining Hierarchical Attention Networks and other deep learning document classification models, improving model accuracy by several percentage points without any additional labelled data
- Designed and implemented Python API to manage scientific-scale dataset transfers using Globus and CKAN framework
- Implemented deep learning pipeline to automate parameter search and optimization for deep learning models on Oak Ridge supercomputer clusters

University of Georgia – Graduate Research Assistant, Athens GA

Aug 2016 – Dec 2016

- Work with interdisciplinary team on human activity recognition project that attempts to classify activity type based on hip-worn accelerometer device
- Developed convolutional-LSTM model that achieves competitive performance on human activity recognition tasks without requiring manual engineering of features

Noble Systems – Technical Writer, Atlanta GA

Mar 2012 – Jul 2016

- Produce customer-facing online training for a wide range of contact center products, including campaign management software, IVR scripting interfaces, and more
- Maintain and develop structure, templates, procedures, and single-sourcing guidelines for internal, VAR, and customer knowledge bases—content includes product technical specifications, client connectivity information, troubleshooting procedures, database reference tables, and best practices
- Work with Engineering, Development, and Support teams to produce troubleshooting and configuration guides for both internal and customer use
- Troubleshoot all technical problems related to internal and customer knowledge bases, including issues with HTML/CSS formatting, Team Foundation Server version control, and nightly auto-build and publishing process

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M.S. Artificial Intelligence – University of Georgia c/o 2018

- Masters of Science in Artificial Intelligence
- Recipient of UGA's Graduate School Research Assistantship

B.S. Economics – Duke University c/o 2009

- Major in Economics, minor in Film, second minor in Markets and Management

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Notable Awards and Achievements

- 2017 Workshop on Mining Scientific Publications Program Committee Member
- 2016 Submitted patent for Utilizing Predictive Models to Improve Predictive Dialer Pacing Capabilities
- 2015 Submitted patent for Live Call Debugging and Monitoring Tool for an Interactive Voice Response Unit
- 2014 Led design, development, and deployment of www.innerquestchurch.org website
- 2012 Pinnacle Promotions January Honorable Mention for Outstanding Employee
- 2011 Pinnacle Promotions Outstanding Teamwork Award
- 2009 William J Griffith University Service Award for Outstanding Contributions to the Duke Community
- 2009 Duke Student Affairs Distinguished Leadership and Service Award for Expanding the Boundaries of Learning
- 2009 Hal Kammerer Memorial Award for Outstanding Film and Video Production

Programming Languages and Skills

- My preferred language is Python; I am strong in Numpy, Pandas, SciKitLearn, Theano, TensorFlow, and PySpark
- I can also do work in Linux, HTML, CSS, SQL, Java, and Matlab
- I can speak conversational Chinese