

Peng Qi

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Education & Professional Experiences

- Master's Student & Research Assistant**, Computer Science Department, Stanford University SEP. 2013 ~ PRESENT
- Research Assistant**, State Key Lab of Intelligent Technology & Systems, Tsinghua University JUL. 2012 ~ JUN. 2013
- Bachelor of Engineering (Honors)**, School of Software, Tsinghua University SEP. 2008 ~ JUL. 2012
- Major GPA 89.9 / 100 (Major rank top 5%)

Publications

- Hu, X., Zhang, J., **Qi, P.**, and Zhang, B. Modeling Response Properties of V2 Neurons with a Modified K-Means Algorithm. In *Neurocomputing*, 2014.
- **Qi, P.**, Hu, X. Learning Nonlinear Regularities in Natural Images by Modeling the Outer Product of Image Intensities. *Neural Computation*, 2013.
- **Qi, P.**, Su, S. and Hu, X. Modeling Outer Products of Features for Image Classification. *ICACI 2013*.
- Hu, X., **Qi, P.** and Zhang, B. Hierarchical K-Means Algorithm for Modeling Visual Area V2 Neurons. *ICONIP 2012*. **Best Paper Award**.

Research / Engineering Project Experiences

- Large-Vocabulary Continuous Speech Recognition with Deep Learning** at Stanford AI Lab SEP. 2013 ~ PRESENT
- Convolutional RBM for Matlab**, Open source project on Github OCT. 2012 ~ PRESENT
- Implemented CRBM algorithm for Matlab applications, accelerated with MEX / CUDA-MEX
- Software Engineer & Machine Learning Consultant (part-time)**, Soulgame Company (mobile game startup), Beijing MAR. 2013 ~ MAR. 2014
- Involved in game development, adaptive load/difficulty algorithms for back-end services, and data analytic algorithms for user behavior analysis
- TexTriBute: A Distributed Framework for Text Retrieval (Team)** MAY 2011 ~ JUN. 2011
- Implemented a simple map-reduce framework with Java Remote Invocation and Latent Semantic Indexing
- Other Project Experiences (Highlights)** 2008 ~ 2012
- Short Text Classification based on Universal Knowledge Base
 - Semantic Query Optimization in HyperSQL-DB the Open Source Database
 - Semantic-directed LR Grammar Analyzer Generator

Academic Services

- **Teaching:** CS224S (Spoken Language Processing, Spring 2014), CS145 (Introduction to Databases, Summer 2014)
- **Reviewing:** ICML 2014, ICACI 2013

Others

- **Skills:** Versed in various programming languages (including parallel programming); Solid background in computer architecture, operating systems, compilers, data structures and algorithms
- **Academics:** Practical understanding and strong implementation capabilities in various sub-fields of machine learning, including speech recognition, computer vision, natural language processing, etc
- **Leadership:** Vice president of Students' Union, School of Software, Tsinghua University (2010~2011)
- **Honors:** National Scholarship (top 3% university-wide), Freshman Scholarship (provincial top 10 in college entrance exam), and other merit-based awards