Baoxiong Jia

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EDUCATION

University of California, Los Angeles, Los Angeles, CA
Master of Science (M.S.), Computer Science (Expected) June 2019
- PKU-UCLA Integrated B.S.- M.S. Program, PKU-UCLA Joint Research Institute (JRI)
- Research Intern at Center for Vision, Cognition, Learning and Autonomy (VCLA)

Peking University, Beijing, China
*Bachelor of Science (B.S.) with **honor***, Computer Science June 2018
- Major GPA: 3.63/4.0   Rank: 29/185
- Research Intern at Operating System Lab, Key Laboratory of High-Confidence Software Technologies
- Courses: Mathematical Analysis (93), Lab on Operating Systems (95), Mathematical Logic (93), Computer Organization (92), Algorithm Design and Analysis (90)

RESEARCH EXPERIENCE

Center for Vision, Cognition, Learning and Autonomy (VCLA) UCLA
Research Intern, advised by: Prof. Song-chun Zhu Sept. 2017 - present
- Intention prediction and planning problems based on stochastic grammar parsing, inverse reinforcement learning, theory of mind.
- Reinforcement learining with prior knowledge, hierarchical reinforcement learning.

Operating System Lab Peking University
Research Intern, advised by: Prof. Yao Guo Feb. 2016 - present
- Automatic app comparison generation by mining comparative user reviews from app markets.
- Paper accepted by IMWUT 2017 (Ubicomp 2017).

PUBLICATION

Yuanchun Li, **Baoxiong Jia**, Yao Guo, Xiangqun Chen. Mining User Reviews for Mobile App Comparisons. *PACM Interact. Mob. Wearable Ubiquitous Technol.* (Ubicomp 2017)

Siyuan Qi, **Baoxiong Jia**, Song-chun Zhu. 2018. Future Activity Prediction Using Generalized Earley Algorithm. *ICML* 2018

Siyuan Qi*, Wenguan Wang*, **Baoxiong Jia**, Jianbing Shen, Song-chun Zhu. Learning Human-Object Interactions by Graph Parsing Neural Networks. *ECCV* 2018

Feng Gao, **Baoxiong Jia**, Siyuan Qi, Yixin Zhu, Song-chun Zhu. Hierarchical Reinforcement Learning with Generalized Boltzmann Policy. *AAAI* 2019 (under review)

PROJECTS

Video based Indoor Positioning and Navigation System Spring, 2017
- Developed by a group of 3, using Java, C and Android SDK
- Build indoor map by marking ground truth location points and recording feature pictures.
- Analyze short videos taken by users and find the user's indoor location based on video segmentation and feature matching between frames and ground truth landmarks.
- Develop Android application and build navigation system using shortest path algorithms.

Lab on Operating System, Android Fall, 2016
- Developed individually using C
- Modify Android kernel (Android 4.9 goldfish) to implement addtional features for Android system.
- Added features: process coloring scheme for constraining inter-process communication, get and set quota for processes, simple memory sharing scheme, cloud file system.

Intelligent Chinese QA System Based on Wiki Corpus   Fall, 2016
- Developed by a group of 4, using Python, C, Java
- Use Chinese Wiki Corpus to set up question answering framework, including question analysis, passage retrieval and pattern mining/matching.
- Approach used: semantic analysis, question classification, pattern extraction.

Structural Perceptron Model for Chinese tokenization   Fall, 2016
- Developed individually using Java
- Complete the task of word tokenization using a basic structural perceptron model with performance enhancements.

Joint Cascade Face Verification System   Spring, 2016
- Developed by a group of 2, using C, OpenCV
- Implement algorithm framework introduced in Joint Cascade Face Detection and Alignment (ECCV14) for face identification and verification purposes.
- Compare between the implemented framework and the model given in OpenCV (Eigenface/Fisherface).

SKILLS

Language C/C++, Java, Python, MatLab, Lisp, SQL, Shell, LaTeX, Javascript, R (familiar)
Tools Numpy, PyTorch, TensorFlow

HONORS

Excellent College Graduate Award, Peking University	2018
Kwang-Hua Scholarship, Peking University	2014 - 2015
Award for Community Contribution, Peking University	2014 - 2015
Award for Academic Excellence, Peking University	2015 - 2016

OTHER ACTIVITIES

Member of the schools basketball team, School of EECS, Peking University	2014 - 2018
Member of the Youth Volunteers Association, School of EECS, Peking University	2014 - 2016