

LETIAN CHEN

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ACADEMIC INTERESTS

Reinforcement Learning, Artificial Intelligence, Human Intelligence

EDUCATION

Georgia Institute of Technology, College of Computing

M.S. in Computer Science (Concentration: Machine Learning), Aug 2018 to now

- GPA: 4.0/4.0

Peking University, School of Psychological and Cognitive Sciences

B.S. in Psychology (Concentration: Cognitive Science and Neuroscience), Sep 2014 to Jul 2018

B.S. in Computer Science, Sep 2015 to July 2018

- Psychology Overall GPA: 3.64/4.0, Junior GPA: 3.78/4.0
- Computer Science GPA: 3.8/4.0
- Awards: Zhang Wenjin Scholarship (1%), Scholarship for undergraduate research, First Prize of National Olympiad in Informatics in Provinces Advanced Group

RESEARCH EXPERIENCE

Model-Free and Model-Based Algorithms in Human Sequential Decision Making, Sep 2017 to May 2018

Undergraduate Thesis, Advisor: Hang Zhang, Peking University

- Designed an experiment to determine whether human uses model-free or model-based strategy under multi-task RL environment.
- Introduced forgetting mechanism in human RL algorithms.
- Used computational modeling methods to compare several existing and newly-introduced algorithms.
- Exploring meta-learning explanation on the experiment data.

Better Exploration using both Good and Bad Demos, Sep 2016 to Jan 2018

Team Leader, Directed Research, Advisor: Yizhou Wang, Peking University

- Developed a tool to record human demos on OpenAI Universe platform.
- Built up a sample efficiency proof for our method based on Gaussian Process and Posterior Sampling.
- Proposed a new algorithm based on Bayesian Neural Network and Posterior Sampling. Experimental results showed it boosted RL exploration significantly.

PROJECTS

Doodle Recognition, Sep 2018 to Dec 2018

- Implemented several Deep Learning architectures to deal with Doodle Recognition task
- Results are shown on <https://github.com/sunshineclt/DoodleBuzzReport>

Face Morphing, Mar 2016 to May 2016

- Implemented face morphing algorithm in C++, which is to morph two faces into one using face landmark detection and Delaunay triangulation
- Codebase and Result are shown on <https://github.com/sunshineclt/MagicMorpher>

Chinese Word Segmentation, Feb 2016 to May 2016

- Used crawler to automatically fetch Chinese news articles online
- Calculated condensation degree and freedom degree of each possible word, used n-gram algorithm to divide Chinese sentence into words

- Increase correct rate by introducing word frequency to segmentation decision

PKU Hackathon, Apr 2015 to Apr 2015

- Investigated deep learning algorithms for face recognition
- Developed an iOS diary application which needs face to unlock and record current emotion automatically by extracting features from face

**WORK
EXPERIENCE**

Peking University, PKU Helper Team, Sep 2015 to Present

Senior iOS Developer, Software Engineer

- Developed and maintained iOS app PKU Helper for PKU campus life (10k+ users)

Teaching Assistant, Assisted Prof. Jun Sun in *Introduction to Computation*, Sep 2016 to Jan 2017

- Designed practice set, instructed students, assisted professor for mid-term and final exam

SKILLS

Programming: Python, C/C++, Matlab, JAVA, SQL, JavaScript, Scheme, Swift, Linux, R, SAS

Language: Native in Mandarin, proficient in English (TOEFL 105/120)