Yuepei **Li**

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Education

Iowa State University — *Ames, IA*

PhD (pursuing) in Computer Science, GPA (by now): 3.61/4.00 — *Now*

Institute of Software, Chinese Academy of Science. — *Beijing, China*

Master in Computer Science, GPA: 3.78/4.00 — *June 2017*

University of Science and Technology of China. — *Hefei, China*

Bachelor of Electronic Science and Technology, GPA: 2.76/4.00 — *July 2012*

Research Experience

Multi-class Positive & Unlabeled (MPU) Learning for Named Entity Recognition — *Ames, IA, US*

Research Assistant — *May, 2019 – January, 2020*

- Derived the risk function for MPU and found suitable loss function that level up the performance of the trained model.
- Rewrite the code in **OOP** style which upgrade the code scalability to new datasets and models. (**Python**)
- Deployed and run the program on pronto server (**slurm** job scheduler installed) to train a high performance model.

High Dynamic Range (HDR) Image Processing — *Beijing, China*

Research Assistant — *July, 2014 – July, 2017*

- Designed and implemented camera array and corresponding HDR algorithm to capture and show HDR images on Sandroid Cubesat (a 2U Cubesat with smart phones as computing core).
- Simulated the algorithm in **MatLab** and proved the feasibility of our design.
- Implemented the algorithm in **C/C++** and build a dynamic linking library for further usage.

The source localization of human voice via non-directional microphone array. — *Hefei, Anhui, China*

Student Researcher — *July, 2011 – December, 2011*

- Designed and implemented the phone array, embedded system (Stm32 with ARM architecture) and corresponding algorithm to localize human voice
- Simulated the algorithm in **MatLab** and proved the feasibility of our design.
- Implemented the algorithm in **embedded C/C++** and build a dynamic linking library for further usage.

Work Experience

iReader Inc. — *Beijing, China*

Algorithm Engineer *responsible for recommendation algorithm design and implementation* — *July, 2017 – July, 2018*

- Designed the recommendation system build on **Hadoop Stream** which serves twenty million active readers daily
- Extracted latent features of consummers, which provide support to the service of "Guess what you like", with neural collaborative filter (solve collaborative filter with neural network). (**Python**).
- Extracted book features for all the books in store, which used in the service of "similar book recommendation", with word2vec model and updated features automatically every month. (**Python, crontab**)
- Designed and implemented the real-time recommendation system by combining users' long term interests (update daily) and short term interests (update every minute). (**Python, Java, Spring**)

Skills

Programing Skills	**Python, Java, C/C++, Hadoop Streaming, JS, Shell**, network programming, HTML/CSS, d3, MATLAB
Framework & Library Skills	**Flask(Python), Spring(Java), tensorflow, pytorch**
Machine Learning Skills	**NER, xgboost, PU learning, reinforcement learning, GBDT, LSTM, BERT embedding**, svm, autoencoder
Other skills	**Git, CUDA**, Spark, Hadoop settings, gui, latex, data visualization, blockchain