

JIAN WANG

1145 Republican St, Seattle, WA

Email: jianwang.ai@hotmail.com

Mobile: (734) 548-7758

Education

University of Michigan

Ann Arbor, MI

Master of Science in Computer Science GPA: 3.87

Sep 2015 – Aug 2018

Coursework: Machine Learning, Parallel Computing, Algorithms, Randomness and Computation

Peking University

Beijing, China

Bachelor of Science in Physics GPA: 3.73

Sep 2011 – Jun 2015

Coursework: Probability Theory and Statistics, Mathematical Modeling, Theoretical Computer Science

Skills

Programming Languages: Python, Java, C/C++, Bash, SQL, PHP

Frameworks: PyTorch, TensorFlow, Keras, SpaCy, AllenNLP, ONNX, Git, OpenMP, MPI

Natural Languages: English, Chinese

Experience

Natural Language Understanding (NLU) Scientist, LivePerson

Nov 2018 – present

- Created deep learning models for intent detection and classification in production. Increased accuracy by 5%
- Designed deep learning based NLU library for research and production. Automated model training and hyperparameter search processes. Achieved 4x speedup by optimizing hardware usage
- Improved anomaly detection algorithm. Increased intent classification accuracy by 2%, by better identifying out-of-topic messages

Vision and Learning Lab Research Assistant, University of Michigan

Summers 2017 & 2018

- Designed spatial-aware deep learning architecture for question answering. Created datasets for spatial-relation understanding. Improved 6% accuracy than former state-of-the-art model
- Proposed siamese neural network to assist math theorem proving. Outperformed former state-of-the-art model by 7% accuracy on premise selection dataset

Projects

Programmer Chatbot: Built chatbot that answers coding-related questions, by looking up the most relevant answer on Stack Overflow website

Hosting computer vision challenge: Hosted in-class computer vision challenge for over 100 participants. Built website for registration and model evaluation using HTML, PHP, SQL, and Python

Parallel simulation of sticky particles: Simulated sticky particles in parallel with a load-balancing system. Achieved 45x speed up than single-threaded version on server

Awards

Gold Medal, Chinese Physics Olympiad (2011): Excelled in both physics theory and experiment competition. Only 51 students awarded in China in year 2011

Gold Medal, Peking University Math Modeling Competition (2013): Established a team of three. Modeled and simulated basketball shooting. Achieved 9% among 82 teams

Publications

Think Visually: Question Answering through Virtual Imagery

Ankit Goyal, Jian Wang, and Jia Deng. *Association for Computational Linguistics (ACL)*, 2018.

Premise Selection for Theorem Proving by Deep Graph Embedding

Mingzhe Wang, Yihe Tang, Jian Wang, and Jia Deng. *Neural Information Processing Systems (NIPS)*, 2017.