

LINGJUN ZHAO

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College Park, MD

EDUCATION

University of Maryland, College Park

Jan 2021 - present

Ph.D. student in Computer Science

Columbia University, New York

Sep 2016 - Dec 2017

M.S. in Computer Science

Sun Yat-Sen University, Guangzhou, China

Sep 2012 - Jun 2016

B.S. in Information and Computational Science

Visiting student at University of California, Berkeley

Fall 2014

EXPERIENCE

Teaching Assistant

Sep 2021 - Present

University of Maryland

College Park, MD

- Introduction to Machine Learning

Research Assistant

Jan 2021 - Aug 2021

University of Maryland

College Park, MD

- Multimodal semantic mismatch
- Cross lingual information retrieval

Staff Scientist II

Mar 2018 - Dec 2020

Raytheon BBN Technologies

Cambridge, MA

- Cross-lingual Information Retrieval (CLIR) for low resource languages from the IARPA MATERIAL program. The queries are short, and no cross-lingual query-document annotated training data is provided
- Designed and built a character-level CNN context-aware lexical translation model, effective for the cross-lingual information retrieval (CLIR) Hidden Markov Model (HMM), achieved state-of-the-art in the IARPA MATERIAL program
- Designed and built a weakly supervised scheme and attentional model for CLIR, trained with samples extracted from parallel translation sentences to estimate CLIR relevance
- Trained and tuned a siamese neural model for the event mention retrieval

Data Science Intern

July 2017 - Aug 2017

Pacific Northwest National Laboratory

Richland, WA

- Developed neural relation extraction attentional models with LSTM and CNN for scientific papers

Research Assistant

Sep 2016 - Dec 2016

Columbia University, Advisor: John Kender

New York, NY

- Applied Viola-Jones face detection to generate upper body bounding boxes for upper body pose estimation in TED Talk videos. Derived upper bounding box scaling and filtered interesting frames
- Approximated the exponential distribution and matrix symmetricity of interesting frames duration

PUBLICATIONS

B. Min, Y. Chan, **L. Zhao**. “Towards Few-Shot Event Mention Retrieval: An Evaluation Framework and A Siamese Network Approach.” LREC 2020. (link)

Z. Jiang, A. El-Jaroudi, W. Hartmann, D. Karakos, **L. Zhao**. “Cross-lingual Information Retrieval with BERT.” LREC 2020 Cross-Language Search and Summarization of Text and Speech Workshop. (link)

L. Zhao, R. Zbib, Z. Jiang, D. Karakos, Z. Huang. “Weakly Supervised Attentional Model for Low Resource Ad-hoc Cross-lingual Information Retrieval.” EMNLP 2019 Deep Learning Approaches for Low-Resource NLP Workshop. (link)

R. Zbib, **L. Zhao**, D. Karakos, W. Hartmann, J. DeYoung, Z. Huang, Z. Jiang, N. Rivkin, L. Zhang, R. Schwartz, J. Makhoul. “Neural-Network Lexical Translation for Cross-lingual IR from Text and Speech.” SIGIR 2019. (link)

AWARDS

- e Prize & First Prize (top 3%), Asia Student Supercomputer Challenge, 2015
- Scholarship for Outstanding Students (top 15%), Sun Yat-Sen University, 2015
- Second Place (top 3%), Mathematical Contest in Modeling, Sun Yat-Sen University, 2012

SERVICES

- Volunteer of Computer Science graduate admissions, University of Maryland, 2020
- Reviewer of ACM TALLIP 2019, Secondary Reviewer of EMNLP 2018
- Director of Computational Science Society, Sun Yat-Sen University, 2013-2014

SKILLS

Programming Languages
Machine Learning Libraries
Other Tools

PYTHON, C++, C, MATLAB
Tensorflow, Keras, Pytorch, scikit-learn, NLTK, OpenCV
Git, Vim, Jupyter, CUDA, NumPy, LATEX