Zheng Li

Ph.D

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Research Interests

My current research focuses on enhancing Low-Resource Natural Language Processing (**LR-NLP**), including **cross-domain**, **multi lingual** or **cross-lingual** and **multi-task** settings. Revolving around this goal, I mainly study the following topics:

- **Machine Learning**: transfer learning, meta-learning, few-shot learning, multi-task learning, graph embedding
- **Natural Language Processing**: sentiment analysis, opinion mining, information extraction, question answering

Education

Hong Kong University of Science and Technology (HKUST) — *Hong Kong SAR*

Ph.D., Department of Computer Science and Engineering. — *Aug. 2016 - Aug. 2020*

- Supervisor: Prof. **Qiang Yang**.

Sun Yat-Sen University (SYSU) — *Guangzhou, China*

B.Eng., Department of Data and Computer Science — *Aug. 2012 - Jun. 2016*

Excellent thesis awards & Excellent undergraduate awards

Working Experience

Google Research, NLX Group — *Mountain View, CA, USA*

Research Intern, Mentor: Ji Young Lee — *May. 2020-Aug. 2020*

Research topic: Domain-agnositc Few-shot Learning

Amazon Search (A9), Search and NLP, Query Understanding Group — *Palo, Alto, CA, USA*

Applied Scientist Intern, Mentor: Mukul Kumar, Manager: Headden, Will and Bing Yin — *Seq. 2019-Dec. 2019*

Research topic: Meta Learning for Low-Resource Cross-lingual Search Query Understanding.

Microsoft Research Asia (MSRA) - Multimedia Search and Mining Group — *Beijing, China*

Research Intern, supervised by Dr. Mei Tao — *Jun. 2015 - Sep. 2015*

Research topic: DNN-based Visual Tracking.

HKUST FOK YING TUNG Research — *Guangzhou, China*

Research Intern, supervised by Prof. Qiang Yang — *Jun. 2016 - Aug. 2016*

Research topic: Coffee Tag Cloud. **Demo** & Sample 1, Sample 2, Sample 3

Publications

Learn to Cross-lingual Transfer with Meta Graph Learning Across Heterogeneous Languages — *EMNLP-2020*

Zheng Li, Mukul Kumar, Will Headden, Nikhil Rao, Bing Yin, Ying Wei, Yu Zhang, Qiang Yang — *Aug, 2020*

The 2020 Conference on Empirical Methods in Natural Language Processing (**Long paper, Oral**)

Transferable E2E Aspect-based Sentiment Analysis with Selective Adversarial Learning — *EMNLP-2019*

Zheng Li, Xin Li, Ying Wei, Lidong, Bing, Yu Zhang, Qiang Yang — *May. 2019*

- The 2019 Conference on Empirical Methods in Natural Language Processing (**Long paper, Oral**)
- **Github** stars:34, forks:7

Exploiting Coarse-to-Fine Task Transfer for Aspect-level Sentiment Classification — *AAAI-2019*

Zheng Li, Ying Wei, Yu Zhang, Xiang Zhang, Xin Li, Qiang Yang — *Feb. 2019*

- The 33rd AAAI Conference on Artificial Intelligence (**Full paper, Oral**)
- **Github** stars:36, forks:9 & Ranking (MGAN)

Hierarchical Attention Transfer Network for Cross-domain Sentiment Classification — *AAAI-2018*

Zheng Li, Ying Wei, Yu Zhang, Qiang Yang — *Feb. 2018*

- The 32nd AAAI Conference on Artificial Intelligence (**Full paper, Oral**)
- **Github** stars:67, forks:22 & **Demo**

End-to-End Adversarial Memory Network for Cross-domain Sentiment Classification — *IJCAI-2017*

Zheng Li, Yu Zhang, Ying Wei, Yuxiang Wu, Qiang Yang — *Aug. 2017*

The 26th International Joint Conference on Artificial Intelligence (**Full paper, Oral**)

Online Visual Tracking via Correlation Filter with Convolutional Networks *VCIP-2017*

ZHENG LI, JIANFEI YANG, JUAN ZHA, CHANG-DONG WANG, WEISHI ZHENG *May. 2017*

- The IEEE International Conference on Visual Communications and Image Processing (**Full paper, Oral**).
- **Demo**

Compressive Perceptual Hashing Tracking *Neurocomputing-2017*

ZHENG LI[*], LONG CHEN[*], JIAN-FEI YANG

* denotes equal contributions, Neurocomputing-2017

Compressive Perceptual Hashing Tracking with Online Foreground Learning *ROBIO-2015*

ZHENG LI, JIAN-FEI YANG, LONG CHEN, JUAN ZHA *Nov. 2015*

- The IEEE International Conference on Robotics and Biomimetics (**Full paper, Oral**).
- **Homepage** & **Demo**

Robust Vehicle Tracking Using Perceptual Hashing Algorithm *ICMLA-2015*

ZHENG LI, JIANFEI YANG, LONG CHEN, JUAN ZHA *Aug. 2015*

The 14th International Conference on Machine Learning and Applications (**Full paper, Oral**)

Long-Term Revenue Maximization Pricing Scheme for Cloud *IJSSE-2015*

WEN-KAI HUAN, CHANG-DONG WANG, SHAO-SHU HUAN, ZHENG LI, JIAN-HUANG LAI, LING HUANG

The International Journal of System of Systems Engineering

Scholarships, Honors & Awards

Nov. 2018 **Baidu PhD Fellowship Nomination Awards**, Baidu, awarded to about 20/5000 applicants all over the world.

2017-2019 **AAAI Travel grants 2018, 2019, IJCAI Travel grants 2017.**,

Jun. 2016 **Outstanding Bachelor Awards**, Sun Yat-sen University

Jun. 2016 **Outstanding Bachelor Thesis Awards**, Sun Yat-sen University

Aug. 2015 **China Intelligent Design Competition, Second Prize**, Awarded to Top 5% teams from China

Nov. 2015 **"YongSheng Liu" Outstanding Undergraduate Scholarship**, Top 1% student in DCS Department

Sep. 2015 **First-class Merit Scholarship**, Top 5% student in DCS Department, Sun Yat-sen University

Sep. 2014 **Second-class Merit Scholarship**, Top 10% student in DCS Department, Sun Yat-sen University

Sep. 2014 **ACM-ICPC Competition, Third Prize**, Sun Yat-sen University

Sep. 2013 **Third-class Merit Scholarship**, Top 20% student in DCS Department, Sun Yat-sen University

Talks

Dec. 2019 **Learn to Cross-lingual Transfer: Meta Learning for Low-Resource Cross-lingual Product Search**, *Amazon Search*

Nov. 2019 **Transferable E2E Aspect-based Sentiment Analysis with Selective Adversarial Learning**, *EMNLP 2019*

Jan/Jul, 2019 **Exploiting Coarse-to-Fine Task Transfer for Aspect-level Sentiment Classification**, *HKSAIR*

Aug. 2018 **Transfer learning for Fine-grained Sentiment Analysis**, *WeBank*

Feb. 2018 **Hierarchical Attention Transfer Network for Cross-domain Sentiment Classification**, *AAAI 2018*

Aug. 2017 **End-to-End Adversarial Memory Network for Cross-domain Sentiment Classification**, *IJCAI 2017*

Professional Services

- **Program Committee (Reviewer)**: ICLR 2021, AAAI 2021
- **Program Committee (Reviewer)**: ACL 2020, EMNLP 2020, ICLR 2020, AAAI 2020, IJCAI 2020
- **Journal Reviewer**: TBD 2019
- **Conference Secondary Reviewer**: AAAI 2019, IJCAI 2019

Skills

- **Deep learning frameworks**: tensorflow, keras, pytorch, theano, dynet
- **Programming language**: python, matlab, c&c++
- **Others**: highchart (visualization), django, js, shell script