Zelun Wang

Education

Texas A&M University

Ph.D. in Computer Science, GPA 3.9/4.0

Xi'an Jiaotong University

B.Eng. in Automation, GPA 89.0/100

College Station, USA

2014.09–2020.09

Xi'an, China

2010.09-2014.07

Work Experiences

Software Engineer

Visual Search

Software Engineer Intern

Location Prediction

Snap, Inc., 2020.10-current

Facebook, Inc., 2018.06-2018.08

Teaching Assistant

o CSCE 121: Introduction to Program Design

o CSCE 462: Microcomputer Systems

Texas A&M University

Research Interests

- Machine Learning, Document Analysis, Affective Computing, Computer Vision

Technical Skills

- Programming Languages: Python, Java, C++, Javascript, Php
- Tools: PyTorch, Matlab, Android, Latex, Hive, Mercurial, Git

Publications

- **Z. Wang**, J. Liu, "PDF2LaTeX: A Deep Learning System to Convert Mathematical Documents from PDF to LaTeX", *ACM Symposium on Document Engineering*. (2020)
- **Z. Wang**, J. Liu, "Translating Math Formula Images to LaTeX Sequences Using Deep Neural Networks with Sequence-level Training", *arXiv* preprint *arXiv*:1908.11415 (2019)
- **Z. Wang**, D. Beyette, J. Lin, J. Liu, "Extraction of Math Expressions from PDF Documents based on Unsupervised Modeling of Fonts", *International Conference on Document Analysis and Recognition*. (2019)
- X. Wang, **Z. Wang**, J. Liu, "Bigram Label Regularization to Reduce Over-Segmentation on Inline Math Detection", *International Conference on Document Analysis and Recognition*. (2019)
- J. Lin, X. Wang, **Z. Wang**, D. Beyette J. Liu, "Prediction of Mathematical Expression Declarations based on Spatial, Semantic, and Syntactic Analysis", *ACM Symposium on Document Engineering*. (Best Student Paper, 2019)
- D. Beyette, **Z. Wang**, J. Lin, J. Liu, 'Semi-Automatic LaTeX-Based Labeling of Mathematical Objects in PDF Documents: MOP Data Set", *ACM Symposium on Document Engineering.* (2019)
- D. Beyette, M. Rugh, J. Lin, X. Wang, Z Wang, R. Capraro, J. Liu, "DIME: A Dynamic Interactive Mathematical Expression Tool for STEM Education", Annual Conference of American Society for Engineering Education. (2019)

- F. Akbar, A. Bayraktaroglu, P. Buddharaju, D. Silva, G. Gao, T. Grover, R. Gutierrez, N. Jones, G. Mark, I. Pavlidis, K. Storer, **Z. Wang**, A. Wesley, S. Zaman, "Email Makes You Sweat: Examining Email Interruptions and Stress with Thermal Imaging", *Proceedings of Human Factors in Computing Systems, ACM Press.* (2019)
- T Jin, J Zhou, **Z Wang**, R Gutierrez-Osuna, C Ahn, W Hwang, K Park, P Lin, "Real-Time Gas Mixture Analysis Using Mid-Infrared Membrane Microcavities", *Journal of Analytical Chemistry.* (2018)
- **Z Wang**, T Jin, P Lin, R Gutierrez-Osuna, "Mixture quantification in the presence of unknown interferences", *The International Symposium on Olfaction and Electronic Nose.* (2017)
- **Z Wang**, A Parnandi, R Gutierrez-Osuna, "BioPad: Leveraging Off-the-Shelf Video Games for Stress Self-Regulation", *Journal of Biomedical and Health Informatics*. (2017)
- C Liberatore, S Aryal, **Z Wang**, S Polsley, R Gutierrez-Osuna, "SABR: Sparse, Anchor-Based Representation of the Speech Signal", *Sixteenth Annual Conference of the International Speech Communication Association*. (2015)
- **Z Wang**, J Wang, S Zhang, Y Gong, "Visual Tracking based on Online Sparse Feature Learning", *Journal Image and Vision Computing*. (2015)
- S Zhang, J Wang, **Z Wang**, Y Gong, Y Liu, "Multi-target tracking by learning local-to-global trajectory models", *Journal Pattern Recognition*. (2014)

Patents

- "A multi-target tracking method by iterating trajectory models", CN201410136574, granted Apr. 2014

Honors and Awards

ACM DocEng Best Student Paper Award: Berlin, Germany	2019
Undergraduate with University Honors: Xi'an Jiaotong University	2014
National Encouragement Scholarship: Xi'an Jiaotong University	2013, 2012, 2011
Outstanding Student Award: Xi'an Jiaotong University	2013, 2012
Excellent Student Leader Award: Xi'an Jiaotong University	2011