Zhenpeng CHEN

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Research Interests

Software analytics: analyze data in software life cycle to help improve use experience, software quality, and development efficiency

Education

– **Peking University, Beijing, China**   09/2018 – 07/2021 (expected)
  Ph.D. in Computer Science
  Advisor Prof. Hong Mei and co-advisor Prof. Xuanzhe Liu

– **Peking University, Beijing, China**   09/2016 – 08/2018
  M.S. in Computer Science
  Advisor Prof. Xuanzhe Liu

– **Peking University, Beijing, China**   09/2012 – 07/2016
  B.S. in Computer Science, B.A. in Economics (dual degree)

– **National Chiao Tung University, Taiwan**   09/2014 – 01/2015
  Undergraduate Exchange Student at the College of Computer Science

Refereed Publications

[C9] **Zhenpeng Chen**, Huihan Yao, Yiling Lou, Yanbin Cao, Yuanqiang Liu, Haoyu Wang, Xuanzhe Liu. An Empirical Study on Deployment Faults of Deep Learning Based Mobile Applications. In *Proceedings of the 43rd International Conference on Software Engineering*, accepted to appear, May 23-29, 2021, Madrid, Spain. **[ICSE 2021, CCF-A]**

[J1] **Zhenpeng Chen**, Yanbin Cao, Huihan Yao, Xuan Lu, Xin Peng, Hong Mei, Xuanzhe Liu. Emoji-Powered Sentiment and Emotion Detection from Software Developers' Communication Data. In *ACM Transactions on Software Engineering and Methodology*, accepted to appear. **[TOSEM 2020, CCF-A]**

[C8] **Zhenpeng Chen**, Yanbin Cao, Yuanqiang Liu, Haoyu Wang, Tao Xie, Xuanzhe Liu. A Comprehensive Study on Challenges in Deploying Deep Learning Based Software. In *Proceedings of the ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pp.750-762, November 8-13, 2020, Sacramento, USA. **[ESEC/FSE 2020, CCF-A]**

[C7] Yiling Lou, **Zhenpeng Chen**, Yanbin Cao, Dan Hao, Lu Zhang.Understanding Build Issue Resolution in Practice: Symptoms and Fix Patterns. In *Proceedings of the ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pp.617-628, November 8-13, 2020, Sacramento, USA. **[ESEC/FSE 2020, CCF-A]**

[C6] **Zhenpeng Chen**, Sheng Shen, Ziniu Hu, Xuan Lu, Qiaozhu Mei, Xuanzhe Liu. Emoji-Powered Representation Learning for Cross-Lingual Sentiment Classification (Extended Abstract). In *Proceedings of theThe Twenty-Ninth International Joint Conference on Artificial Intelligence*, pp.4701-4705, July 11-17, 2020, Yokohama, Japan. **[IJCAI 2020, Invited paper]**

[C5] Chen Qian, Fuli Feng, Lijie Wen, **Zhenpeng Chen**, Li Lin, Yanan Zheng, Tat-Seng Chua. Solving Sequential Text Classification as Board-Game Playing. In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence*, pp.8640-8648, February 7-12, 2020, New York, USA. **[AAAI 2020, CCF-A]**

[C4] **Zhenpeng Chen**, Yanbin Cao, Xuan Lu, Qiaozhu Mei, Xuanzhe Liu. SEntiMoji: An Emoji-Powered Learning Approach for Sentiment Analysis in Software Engineering. In *Proceedings of the ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pp.841-852, August 26-30, 2019, Tallinn, Estonia. **[ESEC/FSE 2019, CCF-A]**

[C3] **Zhenpeng Chen**, Sheng Shen, Ziniu Hu, Xuan Lu, Qiaozhu Mei, Xuanzhe Liu. Emoji-Powered Representation Learning for Cross-Lingual Sentiment Classification. In *Proceedings of the 2019 World Wide Web Conference*, pp.251-262, May 13-17, 2019, San Francisco, USA. **[WWW 2019, CCF-A], Best Full Paper Award (First WWW Best Paper from China)**

[C2] **Zhenpeng Chen**, Xuan Lu, Wei Ai, Huoran Li, Qiaozhu Mei, Xuanzhe Liu. Through a Gender Lens: Learning Usage Patterns of Emojis from Large-Scale Android Users. In *Proceedings of the 2018 World Wide Web Conference*, pp.763-772, April 23-27, 2018, Lyon, France. **[WWW 2018, CCF-A]**

[C1] Xuan Lu, **Zhenpeng Chen**, Xuanzhe Liu, Huoran Li, Tao Xie, Qiaozhu Mei. PRADO: Predicting App Adoption by Learning the Correlation between Developer-Controllable Properties and User Behaviors. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 1(3):79:1–79:30, September 11-15, 2017, MAUI, USA. **[UbiComp 2017, CCF-A]**

Research Mentorship

Yanbin Cao, Peking University. 09/2018-present
Huihan Yao, Peking University. 12/2019-present
Kaibo Liu, Peking University. 09/2020-present
Sheng Shen, Peking University. 09/2017-07/2018

Teaching Experience

09/2017-07/2020	**Undergraduate student instructor (for 60 undergraduate students)**, EECS, Peking University
Spring 2020	**Teaching assistant**, Scientific Writing, Peking University
Fall 2019	**Teaching assistant**, Foundations of Computer Application, Peking University
Spring 2019	**Teaching assistant**, Foundations of Computer Application, Peking University
Fall 2018	**Teaching assistant**, Foundations of Computer Application, Peking University
Spring 2018	**Teaching assistant**, Data Structure and Algorithm, Peking University
Fall 2017	**Teaching assistant**, Foundations of Computer Application, Peking University
Spring 2017	**Teaching assistant**, Data Structure and Algorithm, Peking University
Fall 2016	**Teaching assistant**, Foundations of Computer Application, Peking University

Academic Services

Journal reviewer	ACM Transactions on the Web (**TWEB**)

PC member	IEEE International Conference on Edge Computing (**IEEE EDGE 2020**)
Co-reviewer	International Conference on Software Engineering (**ICSE 2021, ICSE-SEIP 2020**)
	The Web Conference (**WWW 2018-2021**)
	Empirical Software Engineering (**EMSE**)
	ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2019-2020**)
	ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2017-2020**)
	International Conference on Information and Knowledge Management (**CIKM 2017-2020**)

Honors and Awards

2020	May 4th Medal, **highest honor for students at Peking University (10 recipients every 2 years)**
2020	National Scholarship, **Chinese Ministry of Education**
2020	Merit Student Pacesetter, Peking University
2020	President Scholarship, Peking University
2020	Tang Lixin Scholarship, Peking University
2019	Microsoft Research Asia Fellowship, Microsoft **(12 recipients from the Asia-Pacific region)**
2019	Best Full Paper Award, WWW 2019 **(first WWW Best Paper from China)**
2019	National Scholarship, **Chinese Ministry of Education**
2019	President Scholarship, Peking University
2019	Tang Lixin Scholarship, Peking University
2019	Exceptional Award for Academic Innovation, Peking University
2019	Top-ten Research Excellence Award, EECS, Peking University
2019	Merit Student, Peking University
2018	CETC The 14th Research Institute Glarun Scholarship, Peking University
2018	Exceptional Award for Academic Innovation, Peking University
2018	Merit Student Pacesetter, Peking University
2018	President Scholarship, Peking University
2017	National Scholarship, **Chinese Ministry of Education**
2017	Merit Student, Peking University
2016	Outstanding Graduation Thesis, EECS, Peking University
2015	May 4th Scholarship, Peking University
2015	Award for Scientific Research, Peking University
2014	Award for Learning Excellence, Peking University