Zhenpeng CHEN

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Research Interests

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

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

[1] **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 (**ICSE 2021**)*, accepted to appear, May 23-29, 2021, Madrid, Spain.

[2] Chengxu Yang, Qipeng Wang, Mengwei Xu, **Zhenpeng Chen**, Kaigui Bian, Yunxin Liu, Xuanzhe Liu. Characterizing Impacts of Heterogeneity in Federated Learning upon Large-Scale Smartphone Data. In *Proceedings of the 2021 World Wide Web Conference (**WWW 2021**)*, accepted to appear, April 19-23, 2021, Ljubljana, Slovenia.

[3] **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 (**TOSEM 2021**)*, 30(2): 18:1-18:48, 2021.

[4] **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 (**ESEC/FSE 2020**)*, pp.750-762, November 8-13, 2020, Sacramento, USA.

[5] 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 (**ESEC/FSE 2020**)*, pp.617-628, November 8-13, 2020, Sacramento, USA.

[6] **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 (IJCAI 2020)*, pp.4701-4705, July 11-17, 2020, Yokohama, Japan. **(Invited paper)**

[7] 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 (AAAI 2020)*, pp.8640-8648, February 7-12, 2020, New York, USA.

[8] **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 (ESEC/FSE 2019)*, pp.841-852, August 26-30, 2019, Tallinn, Estonia.

[9] **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 (WWW 2019)*, pp.251-262, May 13-17, 2019, San Francisco, USA. **Best Full Paper Award (First WWW Best Paper from China)**

[10] **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 (WWW 2018)*, pp.763-772, April 23-27, 2018, Lyon, France.

[11] 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 (UbiComp 2017)*, 1(3):79:1–79:30, September 11-15, 2017, MAUI, USA.

Research Mentorship

Yanbin Cao, Peking University. 09/2018-present
Huihan Yao, Peking University. 12/2019-present
Jinfeng Wen, 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)
	ACM Transactions on Internet Technology (TOIT)
PC member	ESEC/FSE 2021, Industry Track

Emoji@ICWSM 2021

SEmotion@ICSE 2021

MSR 2021, Shadow PC

IEEE EDGE 2020

Co-reviewer 2021: ICSE, WWW, SIGIR

2020: WWW, SIGIR, KDD, CIKM, ICSE-SEIP

2019: WWW, SIGIR, KDD, CIKM

2018: WWW, KDD, CIKM

2017: KDD, CIKM

Honors and Awards

2020 May 4th Medal, **highest honor for students at Peking University** (10 recipients every 2 years)

2020 Person of the Year 2020, Peking University (10 recipients every 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