

Zhenpeng CHEN

Ph.D. Candidate

Homepage: <https://chenzhenpeng18.github.io>

Department of Computer Science and Technology

School of Electronics Engineering and Computer Science

Peking University

☎ (+86)15652936996

✉ czp@pku.edu.cn

Yanyuan Building, Room 818

No.151, Zhongguancun North Street

Beijing, China

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 the The 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
 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)
PC member	The Sixth International Workshop on Emotion Awareness in Software Engineering (SEmotion 2021) 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