

Zhenpeng CHEN

Ph.D. Candidate

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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

- [C10] **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]
- [C9] 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*, accepted to appear, April 19-23, 2021, Ljubljana, Slovenia. [WWW 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*, 30(2): 18:1-18:48, 2020. [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	ESEC/FSE 2021, Industry Track MSR 2021, Shadow PC SEmotion@ICSE 2021 IEEE EDGE 2020
Co-reviewer	2021: ICSE, WWW 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