Yixue Zhao

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University of Southern California (USC) **USA**

Doctor of Philosophy in Computer Science 2014 - Present

Advisor: Nenad Medvidović Cumulative GPA - 3.91/4.0

University of Oxford & York University UK

Engineering Summer School Summer, 2013

Harbin Institute of Technology (HIT) China

Bachelor of Engineering in Software Engineering 2010 - 2014

Advisor: Zhongjie Wang

Cumulative GPA - 88.93/100 (Rank 1/136)

Research Experience

SoftArch Lab USC, USA Reducing User-Perceived Latency in Mobile Apps via Data Prefetching (Dissertation) Current Design and Develop Infrastructure Support to Facilitate Open Science Current 2016 - 2017Reduced Inter-Component Security Vulnerabilities in Android Apps Studied Architecture Change and Decay in Open-Source Systems 2015 - 2017**CREST Centre** UCL, UK Designed and Developed a Framework for Evaluating UI Test Reuse Summer, 2019 Intelligent Computing Lab HIT, China

Designed and Developed Methods for Personal Data Integration in Heterogeneous Services 2013 – 2014

Awards & Honors

Microsoft Research Dissertation Grant (11 recipients in North	America) MSR, 2019 – 2020
UIUC Rising Star in EECS	UIUC, 2019
WiSE Merit Award (3 recipients in Viterbi School of Engineering	USC, 2019
Best Research Assistant Award (3 recipients in CS Department)	USC, 2018
Jenny Wang Excellence in Teaching Award (1 recipient in CS Dep	partment) USC, 2018
1st Place in MOBILESoft Student Research Competition	MOBILESoft, 2017
University Graduate Fellowship	USC, 2014
University Scholarships, consecutive	HIT, 2010 – 2014
Outstanding Student Awards, consecutive	HIT, 2010 – 2014
China National Scholarship (0.2% in China)	Ministry of Education of China, 2013
2nd Place of The Oxford Study Programme Scholarship	Kingdom Education, 2013
Honorable Mention of 2013 Interdisciplinary Contest In Modelin	g COMAP, 2013

Publications

Full Conference Papers

F6: FrUITeR – A Framework for Evaluating UI Test Reuse (to appear)

Yixue Zhao, Justin Chen, Adriana Sejfia, Marcelo Schmitt Laser, Jie Zhang, Federica Sarro, Mark Harman, Nenad Medvidovic

Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2020), acceptance rate: 28% = 101/360

F5: Empirically Assessing Opportunities for Prefetching and Caching in Mobile Apps

Yixue Zhao, Paul Wat, Marcelo Schmitt Laser, Nenad Medvidovic

International Conference on Automated Software Engineering (ASE 2018),

acceptance rate: 19.9% = 69/346

- F4: Leveraging Program Analysis to Reduce User-Perceived Latency in Mobile Applications

 Yixue Zhao, Marcelo Schmitt Laser, Yingjun Lyu, Nenad Medvidovic

 International Conference on Software Engineering (ICSE 2018), acceptance rate: 20.9% = 105/502
- F3: A SEALANT for Inter-App Security Holes in Android
 Youn Kyu Lee, Jae young Bang, Gholamreza Safi, Arman Shahbazian, Yixue Zhao, Nenad Medvidovic
 International Conference on Software Engineering (ICSE 2017), acceptance rate: 17.1% = 68/398
- F2: Code Anomalies Flock Together: Exploring Code Anomaly Agglomerations for Locating Design Problems

Willian Oizumi, Alessandro Garcia, Leonardo da Silva Sousa, Bruno Cafeo, <u>Yixue Zhao</u> International Conference on Software Engineering (ICSE 2016), acceptance rate: 19.1% = 101/530

F1: A Linked Data based Personal Service Data Collection and Semantics Unification Method <u>Yixue Zhao</u>, Zhongjie Wang, Liping Zou, Jiaqiu Wang, Youqiang Hao International Conference on Service Science (ICSS 2014)

Short Papers

S5: Mobile-App Analysis and Instrumentation Techniques Reimagined with DECREE <u>Yixue Zhao</u>, Nenad Medvidovic

International Conference on Software Engineering (ICSE 2019), ROSE Festival (Position Paper)

S4: A Microservice Architecture for Online Mobile App Optimization

Yixue Zhao, Nenad Medvidovic

International Conference on Mobile Software Engineering and Systems (MOBILESoft 2019), Visions Track

S3: Mobile-App Analysis and Instrumentation Techniques Reimagined with DECREE <u>Yixue Zhao</u>

International Conference on Software Engineering (ICSE 2019), Doctoral Symposium, acceptance rate: 29% = 9 (oral presentation)/31

S2: MOBILESoft: G: Reducing Latency in Mobile Apps via Program Analysis <u>Yixue Zhao</u>

ACM Student Research Competition Grand Final 2018

S1: Toward Client-Centric Approaches for Latency Minimization in Mobile Applications Yixue Zhao

International Conference on Mobile Software Engineering and Systems (MOBILESoft 2017), Student Research Competition

Book Chapters

B1: Mining the Social Web, 2nd Edition. Matthew A. Russell (Chinese Translation) Tonghua Su, Tong Wei, Yixue Zhao, Shuoxing Wang, Zhiyue Liu *China Machine Press*, 2015

Academic Services

Organizing Committee: MOBILESoft 2020, ASE 2019, MOBILESoft 2019

Student Volunteer: ICSE 2017

Mentoring and Teaching

Mentored undergraduates Justin Chen, Siwei Yin, Paul Wat, Marcelo Laser
Outcome: 3 top-tier full research papers, 1 full research paper under review
Mentored high school student Diana Balderas in Young Researchers Program
Outcome: the resulting project has won the 2017 Congressional App Challenge
TA for CSCI-310: Software Engineering, Instructor: Nenad Medvidović
USC, Fall 2016, 2017
TA for CSCI-585: Database Systems, Instructor: Saty Raghavachary
USC, Spring 2016

Invited Talks

Reducing User-Perceived Latency in Mobile Apps via Data Prefetching

Networking at Research Conferences

USC, 2019

Reducing User-Perceived Latency in Mobile Apps via Data Prefetching

PKU, 2018

Program Analysis for Latency Optimization in Mobile Apps (Guest Lecture)

USC, 2017

Program Analysis for Latency Optimization in Mobile Apps (Networked Systems Lab)

USC, 2017

Professional Activities

Women in Computing Club Organizing Committee	USC, 2019 – Present
Microsoft Research PhD Summit, Participant	MSR, 2019
UIUC EECS Rising Stars Workshop, Participant	UIUC, 2019
Byte of Life Seminar on Work-Life Balance, Panelist	USC, 2019
Viterbi Teaching Assistant Training, Panelist	USC, 2018
Quantitative Finance Women's PhD Mentorship Program (8 recipients in USA)	Morgan Stanley, 2017
CRA-WP Grad Cohort, Participant	CRA-WP, 2017
Fake Fancy - Academic and Industry Panel, Panelist	USC, 2017
Grace Hopper Celebration of Women in Computing, Participant	AnitaB.org, 2015

Press Coverage

Rising Star Honored for Early Achievements and Promise	USC, 2019
Dissertation grant recipients embarking on diverse paths to scientific and societal impact	MSR, 2019
Interviewed by American Language Institute to Represent International Students	USC, 2018