

Chunmiao Li

PERSONAL DATA

PLACE AND DATE OF BIRTH: Shaanxi, China | 03 March 1993
ADDRESS: Room 1611, 2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo, 101-8430, Japan
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RESEARCH INTEREST

Blockchain, Pushdown System, Automata Theory.
I love exploring other areas as well.

EDUCATION

- 2018.10 - 2021.9 PhD Student in INFORMATICS
 PRL Lab, SOKENDAI, Japan
 Advisor: Prof. Zhenjiang Hu
- 2015.9 - 2018.3 Master Student in SOFTWARE ENGINEERING
 BASICS Lab, Shanghai Jiao Tong University, China
 Advisor: Prof. Yuxi Fu and Prof. Guoqiang Li
- 2011.9 - 2015.6 Undergraduate Degree in SOFTWARE ENGINEERING
 Northwest University, China
 GPA: 3.74/4 RANK: 1/167
 Thesis: "Design and Implementation of PI Calculus Editor"
 | Advisor: Xiaoqun GUO

PUBLICATION

Chunmiao Li. Gas Estimation and Optimization for Smart Contracts on Ethereum. *In the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021 Doctoral Symposium)*, Nov. 15-19, 2021

Chunmiao Li, Shijie Nie, Yang Cao, Yijun Yu, Zhenjiang Hu. Trace-based Dynamic Gas Estimation of Loops in Smart Contracts. *IEEE Open Journal of the Computer Society*, 2020

Chunmiao Li, Shijie Nie, Yang Cao, Yijun Yu, Zhenjiang Hu. Dynamic Gas Estimation of Loops using Machine Learning. *In International Conference on Blockchain and Trustworthy Systems (BlockSys'2020)*, Aug. 06-07, 2020

Chunmiao Li, Yang Cao, Zhenjiang Hu, Masatoshi Yoshikawa. Blockchain-based Bidirectional Updates on Fine-grained Medical Data. *In First International Workshop on Blockchain and Data Management (BlockDM 2019)*, Macau SAR, China, Apr 8, 2019

Chunmiao Li, Yijun Yu and Zhenjiang Hu. Collaborative Development Environment: Fusing Human Insights into Automated Program Repair. *In the 15th Asian Symposium on Programming Languages and Systems (APLAS)*, the finalist award at SRC (Student Research Competition) (3 were selected out of 15), 2017

Chunmiao Li, Xiaojuan Cai and Guoqiang Li. Lower Bound for Coverability Problem of Well-Structured Pushdown Systems. *Journal of Software*, 2018

Chunmiao Li and Xiaojuan Cai. Hardness Results for Coverability Problem of Well-Structured Pushdown Systems. *In Proceedings of the 11th International Conference on Language and Au-*

tomata Theory and Applications (LATA 2017). LNCS 10168, pp 435-446, 2017.
 Previous oral presentation at the 2nd Young Researchers Workshop on Formal Methods YR-SETTA 2016

Chunmiao Li and Xiaojuan Cai. On Hardness of Recursive Integer Program Analysis. In *the 1st National Conference on Formal Methods and Applications (FMAC'16)*, 2016, accepted (as poster)

HONORS AND AWARDS

SEPT. 2012	The First Prize Scholarship in NWU
SEPT. 2013	The First Prize Scholarship in NWU
APR. 2014	Champion Team in Elementary Group of the fourth session, the Xi'an Colleges and Universities Joint Computer Culture and Arts Festival Programming Contest ("Intelligent Calendar", written in C Sharp)
JUN. 2014	The Third place in Grape Cup Program Design Contest, Xi'an ("the Implementation of Calculator for big numbers", written in C Sharp)
SEPT. 2015	The First Prize Scholarship in SJTU
SEPT. 2016	The Second Prize Scholarship in SJTU
SEPT. 2017	The Second Prize Scholarship in SJTU
OCT. 2018 -OCT. 2021	Japanese Government (MEXT) Scholarship

EXPERIENCE

Aug. 2013	Intern of Software Testing in Navy Blue Software development and Training School, Xi'an
Oct. 2013	SAP HANA Authentication
May. 2014 - Jul. 2014	Intern of JAVA + 3G Mobile Development in Navy Blue Software development and Training School, Xi'an ("Product Management System" Android Application)
Fall, 2015	Teaching Assistant of Computational Thinking (Python), SJTU
Spring, 2016	Teaching Assistant of Theory of Algorithm, SJTU
Fall, 2016	Teaching Assistant of Theory of Algorithm, SJTU
Mar. 26th, 2017 - Sep. 14th, 2017	Internship on the National Institute of Informatics, Japan (NII International Internship Program, supervised by Zhenjiang Hu)

ACADEMIC ACTIVITIES

- 12/16/2015 The 8th NSFC-JSPS Joint Workshop on Formal Methods
- 1/9/2016 BASICS New Year Workshop
- 6/14/2016 The 9th NSFC-JSPS Joint Workshop on Formal Methods
- 7/10/2016 - 7/15/2016 SEI ECNU "Coalgebraic Methods for Automata" Summer School 2016
- 7/17/2016 - 7/19/2016 The 10th International Symposium on Theoretical Aspects of Software Engineering(TASE 2016)
- 8/15/2016 - 8/19/2016 BASICS Summer School on Quantum Algorithm and Quantum Programming
- 11/9/2016 - 11/11/2016 Symposium on Dependable Software Engineering: Theories, Tools, and Applications(SETTA 2016)
- 11/12/2016 oral presentation at YR-SETTA 2016
- 11/12/2016 - 11/13/2016 FMAC 2016

- 3/6/2017 - 3/9/2017 *oral presentation on the 11th International Conference on Language and Automata Theory and Applications (LATA 2017), paper accepted*
- 4/18/2017 - 7/25/2017 IPL Seminar of of Programming Research laboratory in NII
- 6/29/2017 2nd NII-SJTU Joint Workshop on Urban Informatics
- 8/9/2017 - 8/11/2017, Summer Camp on Programming 2017 of Programming Research laboratory in NII (with presentation)

SKILLS

Programming: SOLIDITY, C, JAVA, HTML, JSP, ^A, PYTHON

Applications: Android Development, Webpage Development

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming

Travelling, Singing, Playing piano

Reading books

Volunteering