

SHUFANG ZHU

Lecturer (Assistant Professor)

Department of Computer Science

University of Liverpool

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Google Scholar: <https://scholar.google.com/citations?user=nk0Kc3MAAAAJ&hl=en>

EDUCATION

PhD in SOFTWARE ENGINEERING

Sept. 14 - Mar. 20

East China Normal University, China

Advisor: Prof. Geguang Pu, Co-advisor: Prof. Moshe Y. Vardi

Thesis: Program Synthesis of Linear Temporal Logic over Finite Traces

BSc in SOFTWARE ENGINEERING

Sept. 10 - Jun. 14

East China Normal University, China

PREVIOUS ACADEMIC APPOINTMENT

Senior Research Associate in DEPARTMENT OF COMPUTER SCIENCE

Feb. 23 - Aug. 24

University of Oxford, UK

Mentor: Prof. Giuseppe De Giacomo

Research Associate in DEPT. OF COMP., CONTROL & MANAGEMENT ENGINEERING

Dec. 20 - Nov. 22

Sapienza University of Rome, Italy

Mentor: Prof. Giuseppe De Giacomo

RESEARCH INTERESTS

My expertise lies in the interdisciplinary research area of artificial intelligence (AI) and formal methods (FM), with a focus on **automated planning and synthesis**. My research vision is to advance the development of **trustworthy** autonomous AI systems through trustworthy-by-design techniques.

TEACHING

Guest Lecturer, One lecture on 'Symbolic Synthesis Techniques'

In the course "Foundations of Self-Programming Agents" (MS/PhD level)

Hilary Term. 24 & 23

University of Oxford, UK

Class Tutor, Foundations of Self-Programming Agents (MS/PhD level)

Hilary Term. 24 & 23

University of Oxford, UK

Co-lecturer, Game-Theoretic Approach to Planning and Synthesis (MS/PhD level)

Jul. 24 & Jul. 23

European Summer School on Artificial Intelligence ESSAI, Ljubljana, Slovenia

Co-lecturer, Game-Theoretic Approach to Planning and Synthesis (MS/PhD level)

Jul. 22

Italian PhD program in Artificial Intelligence & Artificial Intelligence Doctoral Academy

Sapienza University of Rome, Italy

Teaching Assistant, Tools of Software Analysis and Verification (MS/PhD level)

Fall. 14

East China Normal University, China

AWARDS AND HONORS

Invited to Dagstuhl Seminar on Knowledge Compilation in Artificial Intelligence, Databases, and Formal Methods	May. 26
Invited to Dagstuhl Seminar on Software Contracts Meet System Contracts	Jan. 26
Invited Speaker at the 7th edition of the International Symposium on AI Verification (SAIV)	Jul. 24
Invited to Dagstuhl Seminar on Automated Synthesis: Functional, Reactive and Beyond	Apr. 24
Selected Mentee at F+Cube Program TU Delft, The Netherlands	2023
Future Digileader Digital Futures, Sweden	2023
Rising Star in Electrical Engineering and Computer Science (EECS) UT Austin, USA	2022
Invited to Dagstuhl Seminar on The Futures of Reactive Synthesis	Sept. 23
Chinese Government Scholarship Chinese Scholarship Council	May. 2016
Academic Scholarship East China Normal University	2015, 2016, 2017, 2018, 2019
Outstanding Student Scholarship East China Normal University	2012, 2013, 2014
Travel Grants KR Diversity & Inclusion Travel Grant 2022, IJCAI 2019, FLoC 2018, Travel Award for WiL 2018 & 2023	

RESEARCH COMMUNITY SERVICES

Organizing Committee

Co-Chair. the 14th Synthesis (SYNT) Workshop, co-located with CAV 2025

Co-Chair. ECAI 2024 Workshop: Highlights of Reasoning about Actions, Planning and Reactive Synthesis

Co-Chair. AAI Spring Symposium Series 2023: On the Effectiveness of Temporal Logics on Finite Traces

Program Committee

2025. AAI, SPIN, ECAI, KR, SAIV

2024. IJCAI, AAI, KR, AAMAS, FM, FMCAD, CAV Artifact Evaluation, SAIV

2023. IJCAI, KR, FMCAD, ECAI

2022. AAI, IJCAI

2021. AAI

Conference Reviewer

2023. CAV

2022. CSL

2021. ICALP

Journal Reviewer

2024. Logical Methods in Computer Science, Autonomous Agents and Multi-Agent Systems

2023. Artificial Intelligence Journal

2020. Mathematical Problems in Engineering, IEEE Access

2017. Formal Methods in System Design

Conference Volunteer

KR 2021, ATVA 2015 (Head Volunteer)