

Sarvin Bahmani

 [Sarv Website](#)  [Google Scholar](#)  [Email](#)

Education

University of Liverpool, UK. 2025 – 2029
PhD in Computer Science
Advisor: [Prof. Sven Schewe](#)

University of Tehran, Iran. 2018 – 2023
B.Sc. in Computer Engineering

Research Interests

Game theory, Automata theory, Formal methods, Verification.

Publications

- ◇ **Sarvin Bahmani**, Soumyajit Paul, Sven Schewe, Sadegh Soudjani, Ashutosh Trivedi
Automata-Theoretic Verification of Interval Markov Decision Processes. *CDC* 2026.
- ◇ **Sarvin Bahmani**, Soumyajit Paul, Sven Schewe, Shadi Tasdighi Kalat, Ashutosh Trivedi
Asymmetrically-Discounted Stochastic Games. *CONCUR* 2026.
- ◇ **Sarvin Bahmani**, Soumyajit Paul, Sven Schewe, Shadi Tasdighi Kalat, Ashutosh Trivedi
Social Welfare under Heterogeneous Time Preferences. *IJCAI* 2026.
- ◇ **Sarvin Bahmani**, Rasmus Ibsen-Jensen, Soumyajit Paul, Sven Schewe, Friedrich Slivovsky, Qiyi Tang, Dominik Wojtczak, Shufang Zhu
[The Complexity of Games with Randomised Control](#). *FoSSaCS* 2026.
- ◇ Jan Heiland, Peter Benner, and **Rezvan Bahmani**.
[Convolutional Neural Networks for Very Low-dimensional LPV Approximations of Incompressible Navier-Stokes Equations](#). *Frontiers in Applied Mathematics and Statistics* 2022.

Research Experience

University of Liverpool, Research Associate, Jan. 2025 – present
Advisor: [Prof. Sven Schewe](#)
◇ Analysing payoff games.

Dresden University of Technology, Research Assistant, Dec. 2023 – Dec. 2024
Advisor: [Prof. Shervin Safavi](#)
◇ Comparison on Ripple Detection methods.

MPI for Dynamics of Complex Technical Systems, Research Intern, Jun. 2021 – Dec. 2021
Advisor: [Prof. Jan Heiland](#)
◇ analysis of convolutional neural network for encoding flow simulation data.

Presentations and Talks

- ◇ SYNT, Lisbon, Portugal, 2026
- ◇ FoSSaCS, Torino, Italy, 2026
- ◇ SynCoP, Torino, Italy, 2026

- ◇ Automata in the Wild 2026, Liverpool, UK, 2026
- ◇ Verification Group, Liverpool, UK, 2026

Professional Services

- ◇ Co-PC Chair of [YR-CONCUR 2026](#)
- ◇ Artifact Evaluation Committee of ATVA 2026
- ◇ Artifact Evaluation Committee of CAV 2026

Research Activities

- ◇ Volunteer for the organization of CONCUR 2026
- ◇ Volunteer for the organization of ETAPS 2026

Awards & Prizes

- ◇ Scholarship to attend the ETAPS 2026 international conference in Turin. Apr. 2026

Teaching Experience

University of Liverpool, School of Computer Science

- ◇ **Safety and Dependability** Jan. 2026 – May 2026
[Prof. Sven Schewe](#)
- ◇ **Optimisation** Sep. 2026 – Dec. 2026
[Prof. Friedrich Slivovsky](#)

University of Tehran, School of Computer Engineering

- ◇ **Artificial Intelligence**
- ◇ **Data Structures and Algorithms**
- ◇ **Multivariable Calculus**
- ◇ **Computing Systems and Programming (C)**