

SHERYL PAUL

PhD Candidate, Computer Science

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EDUCATION

PhD Computer Science 2019 – 2026¹
University of Southern California 3.87/4.00

- **Areas of Interest:** Game Theory, Control Theory, Multi-Agent systems, Temporal logic, Networked Systems
- **Relevant Coursework:** Theory & Algorithms for Formal Verification, Formal Methods for Robotics, Advanced Algorithms, Network Economics & Games, Computer-Aided Verification

MSc Computer Science 2018-2019
University of Oxford 2:1, 1:1

- **Dissertation:** The Emergence of Social Norms in Evolutionary Games
- **Relevant Coursework:** Computational Game Theory, Artificial Intelligence, Machine Learning, Advanced Database Systems, Computers in Society

BE Computer Engineering 2014-18
University of Mumbai 9.79/10.00

- **Project:** Heterogeneous Clustering for Universal Recommendation Generation (*Patent published*)

PROFESSIONAL EXPERIENCE

Teaching Assistant Spring 2025, Fall 2024
University of Southern California

- Computer Systems, Autonomous Cyber-physical Systems

Research Assistant 2018-19
University of Oxford (Department of Social Policy and Intervention)

Technical Analyst Intern 2017
Credit Suisse Investment Bank

Technical Intern 2016-17
Gromor Fintech

Teaching Assistant 2016-17
University of Mumbai

ONGOING RESEARCH

Dynamics and Control of Information Interventions
Opinion Dynamics, Control Theory, Networked Systems, Sociotechnical Systems

Formal Methods in Multi-Agent Systems
Signal Temporal Logic (STL), STL-GO, Control Synthesis, Multi-Agent Systems

Game-Theoretic Models of Collective Behavior
Evolutionary Game Theory, Population Dynamics, Transportation and Mobility Systems

RESEARCH/PUBLICATIONS

Multi-Agent Planning with Spatio-Temporal and Topological Constraints

**** Under Submission**

S. Paul, V. Kudalkar, A. Balakrishnan, L. Lindemann, A. Speranzon, J. Deshmukh

ABM-SIRTEM: A Hybrid Agent-Based and Epidemiological Model for Pandemic Response

**** Under submission**

S. Paul, S. J. Williams, P. K. Biswas, G. Pedrielli, J. Deshmukh

Online Control of Opinion Dynamics

ACC 2026

S. Paul, L. C. Juarez, J. Deshmukh, K. Savla

Monitoring Spatially Distributed Cyber-Physical Systems with Alternating Finite Automata

HSCC 2025- (Best Paper Winner)

A. Balakrishnan, S. Paul, L. Nenzi, S. Silvetti, J. Deshmukh

Evolutionary Adaptation of Policies for Environmental Shifts

European Conference on Artificial Intelligence, 2024

S. Paul, J. Deshmukh

Multi-Agent Pathfinding for Timed Tasks using Evolutionary Techniques

QEST-FORMATS, 2024

S. Paul, Anand Balakrishnan, Xin Qin, J. Deshmukh

Systematic Translation from Natural Language Robot Task Descriptions to STL

AISoLA, 2024

S. Mohammadinejad, S. Paul, Y. Xia, V. Kudalkar J. Deshmukh

Detection of Breast Cancer from Mammograms using a Hybrid Approach of Deep Learning and Linear Classification

ICSET (IEEE), 2018

S. Paul, D. Gala, S. Agrawal, R. Rangnekar, D. Kalbande

MISCELLANEOUS

- Awarded full tuition scholarship for MSc at Oxford by the British Council
- Reviewer: RV, L4DC, VMCAI, AAAI, ICCPS, CAV, IEEE-TASE, ACC
- Presented posters at GC Women in CS Conference ('23), USC-AAI ('23, '24, '25)
- NASA Formal Methods Volunteer (2022)
- Vocal Arts at USC Thornton (Grade A, 4 semesters)
- Volunteer at Union Rescue Missions, School on Wheels, Dream Center LA

¹Includes health leave of absence