

# Curriculum vitae

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**Name:** Soumya Paul

**Date of Birth:** 18 October 1983

**Current Designation:**

- Doctoral Student  
The Institute of Mathematical Sciences, Chennai

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## Education

### Doctor of Philosophy (Ph.D.)

Specialisation : Theoretical Computer Science

Institution : The Institute of Mathematical Sciences, Chennai, India

Period : From August 2007

Advisor : Prof. R. Ramanujam

### Master of Science

Specialisation : Theoretical Computer Science

Institution : The Institute of Mathematical Sciences, Chennai, India

Period : From August 2005 to July 2007

## **Bachelor of Engineering**

Specialisation : Computer Science  
Institution : Birla Institute of Technology and Science, Pilani, India  
Period : From 2001 to 2005

## **Research Interests**

- Game theory and its application to Computer Science
- Infinite games on graphs - solving and computing memory bounds
- Logic and automata theory
- Logical foundations of game theory
- Formal verification
- Model checking games for different logics
- Set theory, event structures, Petri nets and concurrency theory (general interests)

## **List of Publications**

- Soumya Paul and R. Ramanujam. “Dynamic Restriction of Choices: Synthesis of Societal Rules”, Proceedings of the Third International Workshop on Logic, Rationality and Interaction(LORI-III), 2011 (to appear)
- Soumya Paul and R. Ramanujam. “Neighbourhood Structure in Large Games”, Proceedings of the 14th Conference on Theoretical Aspects of Rationality and Knowledge (TARK), pages 121-130, 2011
- Soumya Paul and R. Ramanujam. “Imitation in Large Games”, Proceedings the First International Symposium on Games, Automata, Logics and Formal Verification (GandALF), Electronic Proceedings in Theoretical Computer Science, pages 162-172, 2010
- Soumya Paul and Sunil Simon. “Nash Equilibrium in Generalised Muller Games”, Proceedings of the conference on Foundation of Software Technology and Theoretical Computer Science (FSTTCS), volume 4 of Leibniz International Proceedings in Informatics (LIPIcs), pages 335-346, 2009

- Soumya Paul, R. Ramanujam and Sunil Simon. “Dynamic Restriction of Choices: A Preliminary Logical Report”, Proceedings of the 12th Conference on Theoretical Aspects of Rationality and Knowledge (TARK), pages 218-226, 2009
- Soumya Paul, R. Ramanujam and Sunil Simon. “Stability under Strategy Switching”, Proceedings of the 5th Conference on Computability in Europe (CiE), LNCS Volume 5635, pages 389-398, 2009

## Other Works

- Soumya Paul. “Model Checking Games for Concurrent Logics”, Thesis submitted for the award of the degree of Master of Science, 2007. Under the guidance of R. Ramanujam

## Professional Activities

- **Referee:** SODA 2011, TARK 2011, FSTTCS 2010, CiE 2010, KR 2010, ICALP 2009, FSTTCS 2008, KR 2008, STACS 2007

## References

- R. Ramanujam  
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- Dietmar Berwanger  
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- Kamal Lodaya  
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