Senthil Rajasekaran

Houston, TX, 77030 ◦ sr79@rice.edu ◦ (504) 799-9980 ◦ American Citizenship

SKILLS

I am a PhD student at Rice University working in **theoretical computer science** at the intersection of **automata theory**, **game theory**, and **complexity theory**. Before this, I worked as a **software engineer**. I have experience with **Python, C#, Java, Mathematica, and MATLAB**. I enjoy solving **mathematical and algorithmic puzzles**.

EDUCATION

Rice University, Houston, TX — 8/2019 – 5/2025
PhD in Computer Science, GPA 3.88/4.00
Advisor: **Dr. Moshe Y. Vardi**

University of Oxford, Oxford, UK — 9/2016 - 11/2017
MSc in Mathematics and the Foundations of Computer Science

Tulane University, New Orleans, LA — 8/2011 – 5/2015
BS in Mathematics, BS in Economics
Magna Cum Laude with departmental honors in Mathematics

EMPLOYMENT

Digicomm Inc, Metairie, LA — 2018 – 2019
Title: **Full Stack Software Engineer**

Nokia Bell Labs, Murray Hill, NJ — 06/2022 – 09/2022
Title: **Software Analysis Group Intern**

SELECTED WORKS

Nash Equilibria in Finite-Horizon Multiagent Concurrent Games — **AAMAS 2021**
Senthil Rajasekaran and Moshe Y. Vardi

Verification and Realizability in Finite-Horizon Multiagent Systems — **KR 2022**
Senthil Rajasekaran and Moshe Y. Vardi

Multi-Agent Systems with Quantitative Satisficing Goals — **IJCAI 2023**
Senthil Rajasekaran, Suguman Bansal, and Moshe Y. Vardi

Verifying Nash Equilibria in Finite-Horizon Probabilistic Multi-Agent Concurrent Games — In Submission
Senthil Rajasekaran and Moshe Y. Vardi

The Verification Problem for the SGPE and the NE in Finite-Horizon Probabilistic Multi-Agent Concurrent Games — In Submission
Senthil Rajasekaran and Moshe Y. Vardi

Multivariate Analysis of Succinctly Represented Multi-Agent Systems — In Preparation
Senthil Rajasekaran and Moshe Y. Vardi

SELECTED MEDIA

Invited talk at the Simons Institute (leading institution for theoretical computer science)
https://www.youtube.com/watch?v=2RBoaPIrvQY&t=27s
Feature in Rice CS News https://csweb.rice.edu/news/quantitative-goal-approach-game-theory-problem-could-be-important-building-block
Blog (contains some old writing and programming projects) - https://bogobogosort.wordpress.com/