

## Naveen Sundar Govindarajulu

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Naveen Sundar G. is an International Fulbright Science and Technology scholar pursuing his Ph.D. in Computer Science at RPI in the Rensselaer Artificial Intelligence and Reasoning Laboratory (RAIR Lab) with Prof. Bringsjord.

His research focuses on formal Computer Science and AI. Naveen's research in syntax and consciousness continues work in building cognitively robust synthetic characters at the RAIR Lab through formal modeling of self-consciousness in synthetic characters and the building of characters that are able to pass the mirror test for self-consciousness. His PhD research overlaps with a project funded by the Templeton Foundation entitled "*Toward a Markedly Better Geography of Minds, Machines, and Math.*" The objective of this project is to study and advance the mathematical frontiers of AI research. His research in this project revolves around using general-purpose reasoning via formal logic to model areas ranging from cognition and language to automated verification in science and engineering. The latter has produced the first un-computable game, the Robot Devolution game, which can enable crowd-sourced solving of truly difficult problems.

Naveen holds a dual degree in Physics and Electronics & Electrical engineering from BITS-Pilani, obtained with help provided by the GE Foundation's Scholar-Leader award. His prior experience includes research at Hewlett Packard Labs, the Tata Institute of Fundamental Research, and the Indian Space Research Organization. He has an active interest in the philosophy of the mind and AI and what can be brought to light about minds by studying mathematical cognition.