

# Jeevana Priya Inala

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📄 [jinala.github.io](https://github.com/jinala.github.io)

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## Education

- 2016–present **Ph.D.**, *Electrical Engineering and Computer Science*, Massachusetts Institute of Technology.  
Advisor: Prof. Armando Solar-Lezama
- 2015–2016 **Master of Engineering**, *Electrical Engineering and Computer Science*, Massachusetts Institute of Technology, *GPA – 5/5*.
- 2012–2016 **Bachelor of Science**, *Electrical Engineering and Computer Science*, Massachusetts Institute of Technology, *GPA – 4.9/5*.

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## Research focus

Artificial intelligence and program synthesis. I develop *neuro-symbolic* approaches for learning models as *programs* and apply them to several applications in *robotics*.

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## Publications

- NeurIPS 2020 Jeevana Priya Inala\*, Yichen Yang\*, James Paulos, Yewen Pu, Osbert Bastani, Vijay Kumar, Martin Rinard, Armando Solar-Lezama.  
**Neurosymbolic Transformers for Multi-Agent Communication.**
- ICLR 2020 Jeevana Priya Inala, Osbert Bastani, Zenna Tavares, Armando Solar-Lezama.  
**Synthesizing Programmatic Policies that Inductively Generalize.**
- ICRA 2019 Thais Campos\*, Jeevana Priya Inala\*, Armando Solar-Lezama, Hadas Krez-Gazit. (\* equal contribution)  
**Task-based Design of Modular Ad-hoc Manipulators.**
- SIGGRAPH ASIA 2018 Tao Du, Jeevana Priya Inala, Yewen Pu, Andrew Spielberg, Adriana Schulz, Daniela Rus, Armando Solar-Lezama, Wojciech Matusik.  
**InverseCAD: Automatic Conversion of 3D Models to CSG Trees.**
- POPL 2018 Jeevana Priya Inala, Rishabh Singh.  
**WebRelate: Joining Web Data with Relational Data using Examples.**
- TACAS 2017 Jeevana Priya Inala, Nadia Polikarpova, Xiaokang Qiu, Ben Lerner, Armando Solar-Lezama.  
**Synthesis of Recursive ADT Transformations from Reusable Templates.**
- EuroSys 2016 Nathaniel Herman, Jeevana Priya Inala, Yihe Huang, Lily Tsai, Eddie Kohler, Barbara Liskov, Liuba Shrira.  
**Type-Aware Transactions for Faster Concurrent Code.**
- SAT 2016 Jeevana Priya Inala, Rohit Singh, Armando Solar-Lezama.  
**Synthesis of Domain Specific CNF Encoders for Bit-Vector Solvers.**

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## Experience

- Summer 2017 **Research Intern**, TOYOTA RESEARCH INSTITUTE, Cambridge, MA.
- Summer 2016 **Research Intern**, MICROSOFT RESEARCH, Redmond, WA.
- Summer 2014 **Software Engineering Intern**, GOOGLE INC., Mountain View, CA.

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## Awards

- 2016 - 17 Microsoft Research Women's Fellowship
- 2016 Charles and Jennifer Johnson MEng Thesis First Place Award
- 2016 First place in ACM student research competition grand finals
- 2015 First place in PLDI student research competition
- 2014 - 15 Actifio Undergraduate Research and Innovation Scholar

- 2012 Gold medal at 13th Asian Physics Olympiad, India
- 2011 Gold medal and Best in Theory in 5th International Olympiad in Astronomy and Astrophysics, Poland
- 2012 Silver medal and Asian Girl topper in 43rd International Physics Olympiad, Estonia
- 2012 Secured rank 21 in the Indian Institute of Technology (IIT) Joint Entrance Examination

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## Talks

- April 2020 **ICLR conference.** Synthesizing Programmatic Policies that Inductively Generalize.
- Feb 2020 **AAAI GenPlan workshop.** Synthesizing Programmatic Policies that Inductively Generalize.
- Jan 2018 **POPL conference.** WebRelate: Joining Web Data with Relational Data using Examples.
- Apr 2017 **TACAS conference.** Synthesis of Recursive ADT Transformations from Reusable Templates.
- Aug 2016 **Microsoft Research.** WebRelate: Joining Web Data with Relational Data using Examples.
- Jul 2016 **SAT conference.** Synthesis of Domain Specific CNF Encoders for Bit-Vector Solvers.
- Jul 2016 **SMT workshop.** Synthesis of Domain Specific CNF Encoders for Bit-Vector Solvers.
- Jun 2016 **ExCAPE PI meeting.** Synthesis of Domain Specific CNF Encoders for Bit-Vector Solvers.
- Jun 2015 **PLDI student research competition.** Synthesis of Recursive ADT Transformations from Reusable Templates.

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## Reviewing

Reviewer for artifact evaluation for CAV 2020 and POPL 2019.  
Reviewer for journal papers in Robotica.