Dorsa Sadigh

Contact

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Research Interests

Robotics, Human-Robot Interaction, Control Theory, Formal Methods

Current Position

Stanford University **September 2017 - present**
Assistant Professor
Department of Computer Science and Department of Electrical Engineering

Education

University of California, Berkeley **2017**
Ph.D. in Electrical Engineering and Computer Sciences
Advisors: Sanjit Seshia and Shankar Sastry
Thesis: *Safe and Interactive Autonomy: Control, Learning, and Verification*

University of California, Berkeley **2012**
B.S. in Electrical Engineering and Computer Sciences

Selected Honors & Awards

- Best Student Paper Award (Finalist) 2020
  Robotics: Science and Systems (RSS), for *"Shared Autonomy with Learned Latent Actions"*
- IEEE TC-CPS Early Career Award 2020
- Best Paper Award (Honorable Mention) 2020
  ACM/IEEE International Conference on Human-Robot Interaction (HRI), for *"When Humans Aren't Optimal: Robots that Collaborate with Risk-Aware Humans"*
- National Science Foundation CAREER Award 2020
- Gilbreth Lecturer at National Academy of Engineering 2020
- Google Faculty Research Award 2020
- Amazon Research Award 2019
- Best Paper Award (Finalist) 2019
  European Control Conference (ECC), for *"Human-Robot Interaction for Truck Platooning Using Hierarchical Dynamic Games"*
- Best Paper Award 2019
  ICML Workshop on Adaptive & Multitask Learning: Algorithms & Systems, for *"Continual Adaptation for Efficient Machine Communication"*
- Best Cognitive Robotics Paper (Finalist) 2016
  IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) for *"Information Gathering Actions over Human Internal State"*
- Leon O. Chua Award for excellence in non-linear science,
  EECS Department, UC Berkeley 2016

- Google Anita Borg Scholarship 2016
- National Defense Science and Engineering Graduate Fellowship 2013
- National Science Foundation Graduate Research Fellowship 2013
- CRA Outstanding Undergraduate Researcher Award 2012
- Semiconductor Research Corporation (SRC-URO) Scholar 2011
- Arthur M. Hopkin Award for seriousness of purpose & high academic achievement, EECS Department, UC Berkeley 2011
- Eta Kappa Nu (EECS Honors Society) 2010

Teaching

CS 237B: Robot Autonomy II **Winter 2020**
Instructor, Stanford University.

CS 221: Artificial Intelligence **Spring 2018 - 2019, Fall 2019**
Instructor, Stanford University.

CS 521: Seminar on AI Safety **Spring 2018, 2020**
Instructor, Stanford University.

CS 333: Safe and Interactive Robotics **Fall 2017 - 2018**
Instructor, Stanford University.

EE120: Signals and Systems **Spring 2015**
TA for Murat Arcak. UC Berkeley.

EECS20N: Structure & Interpretation of Systems & Signals **Spring 2014**
TA for David Tse and Thomas Courtade. UC Berkeley.

EECS20N: Structure & Interpretation of Systems & Signals **Spring 2011**
TA for Edward Lee and Pieter Abbeel. UC Berkeley.

Advising & Mentoring

Current Graduate Students
Erdem Bıyık, Minae Kwon, Malayandi Palaniappan (co-advised with Stephen Boyd), Mengxi Li (co-advised with Jeannette Bohg), Zhangjie Cao, Siddhartha Karamcheti (co-advised with Percy Liang), Andy Shih (co-advised with Stefano Ermon)

Past Postdoctoral Students
Dylan Losey (Faculty at Virginia Tech)

Past Undergraduate Students
Nick Landolfi (Ph.D. student in CS at Stanford), Zhiyang He (Ph.D. student in EECS at UC Berkeley), Zheqing Zhu (Ph.D. student in MS&E at Stanford)

Outreach

Stanford AI Mentorship Program **2018 - present**
I have organized the Stanford AI mentorship program, where we connect underrepresented minorities and female undergraduate students interested in AI with Ph.D. students at Stanford to meet monthly and discuss research and career choices.

Faculty Mentor for Stanford Robotics Club **2017 - present**
I mentor the Stanford undergraduate Robotics Club. Every year they work towards participating in a robotics competition. They have won the third place in the University Rover Challenge in 2019.

Faculty Mentor for Inclusion in AI **2018 - present**
I mentor the Stanford AI Lab graduate group "Inclusion in AI". The group holds regular social and networking events for Stanford AI Lab graduate students.

Talks at Women and Inclusion in STEM events and panels
AI4ALL summer program, Girls Who Code summer program, Gender in Robotics Workshop at Stanford, Berkeley-Stanford Meetup, Rising Stars (EECS) of 2018, Rising Stars (Mechanical Engineering) of 2019, Inclusion in AI.

Talks at Graduate and Undergraduate Student Groups
Undergrad CS Women (WiCS), Grad Engineering Women (SWE), SAIL (Stanford AI Lab women), Women in Electrical Engineering, Women in Aero/Astro, Fire-Side chat with Stanford Undergrads.

EEGSA Outreach Member **2012 - 2017**
Visiting local K-12 schools and presenting engineering projects and demonstrations.

WICSE Outreach Coordinator **2014 - 2015**
Organizing events and outreach activities aiming young girls involvements in STEM.

Work Experience

Microsoft Research, Redmond **June - August 2015**
Internship at the Adaptive Systems and Interaction group with Ashish Kapoor and Eric Horvitz.

Stanford Research Institute, International **June - August 2013**
Internship at the Computer Science Laboratory in the formal methods group with Ashish Tiwari.

Professional Activities

Center for AI Safety at Stanford **2018 - present**
Founding member of the Center for AI Safety at Stanford along with Mykel Kochenderfer, Clark Barrett, and David Dill. The center is focused on safety and verification issues for AI and machine learning systems.

Human-Centered AI Institute **2018 - present**
Member of the design committee of Human-Centered AI Institute at Stanford.

Program Co-Chair **2018 - 2019**
Bay Area Robotics Symposium

Program Committee (Associate Editor, Area Chair)
CoRL 2020, RSS 2020, HRI 2020, L4DC 2020, CAV 2019, HSCC 2019, CoRL 2018, ICRA 2018, HSCC Repeatability Eval 2016.

Publicity Chair
HSCC 2021

AAAI ACM SIGAI Dissertation Award Committee **2020**

Workshop Organizer
Reliable Autonomy for Human-Cyber-Physical Systems at NSF PI meeting, Virginia, 2018.
IROS 2016: Perspectives on Analysis and Design of Human-Centered Robotics.
IROS 2019: Learning Representations for Planning and Control.
RSS 2020: Emergent Behaviors in Human-Robot Systems.

DREAM Seminar Organizer **2015 - 2017**
https://embedded.eecs.berkeley.edu/seminar/

External Reviewer for Conferences, Journals, and Grant Panels
- *Robotics:* RSS, CoRL, WAFR, ICRA, HRI, TASE, ACM TECS
- *Control Theory:* HSCC, CDC, ACC, TCST
- *Formal Methods:* CAV, FM, HVC, VMCAI
- *NSF Proposal Panels*

Invited Talks

Keynote at 1st Colloquium on AI for Architecture, Engineering, and Construction 2020

ICML Workshop on Real-World Experiment Design & Active Learning.
Active Learning of Robot Reward Functions. 2020

RSS Workshop on Interaction and Decision-Making in Autonomous-Driving.
When our Human Modeling Assumptions Fail: Planning, learning, and prediction in near-accident driving scenarios. 2020

RSS Workshop on Power-On-and-Go Robots: Out-of-the-Box Systems for Real-World Applications.
To Ignore Humans or to Accept them with Open Arms: Challenges and Opportunities for Efficient, Robust, and Adaptive POGO Robots. 2020

RSS Workshop on AI & Its Alternatives in Assistive & Collaborative Robotics: Decoding Intent.
The Role of Learned Representations in Assistive Teleoperation. 2020

Keynote at HSCC.
Human-CPS from the Lens of Learning and Control. 2020

Keynote at Center for Human-Compatible AI Workshop. – " –. 2020

John Hopkins, Applied Physics Lab Seminar. – " –. 2020

ICRA Workshop on Long-term Human Motion Prediction.
When our Human Modeling Assumptions Fail: The effects of risk, conventions, and non-stationarity on long-term human-robot interaction. 2020

NASA Formal Methods, AI Safety Workshop.
Risk-Aware Human Modeling. 2020

IPAM workshop on Intersections between Control, Learning, and Optimization.
Beyond Theory of Mind: Learning & Influencing Conventions. 2020

Gilbreth Lecture, National Academy of Engineering.

Influencing Interactions in Autonomous Driving. 2020

Keynote at FMCAD. A journey about Safety of Autonomous Systems. 2019

Frontiers of Engineering, National Academy of Engineering.
Influencing Interactions in Autonomous Driving. 2019

RSS 2019 Workshop on Safe Autonomy. –"–. 2019

Learning for Dynamics and Control Workshop.
Influencing Interactive Mixed-Autonomy Systems. 2019

ICML Workshop on AI for Autonomous Driving. –"–. 2019

MIT, Department Seminar.
Interactive Autonomy: Learning and Control for Human-Robot Systems. 2019

University of Washington, Department Seminar. –"–. 2019

Cornell, Department Seminar. –"–. 2019

CalTech, IST Seminar. –"–. 2019

USC, CPS Seminar. –"–. 2019

University of Maryland, Robotics Seminar. –"–. 2019

Theoretical Machine Learning Simons Foundation Workshop. –"–. 2019

Schloss Dagstuhl on Verification and Synthesis for Human-Robot Interaction.
Reward Functions and Specifications 2019

NeurIPS workshop on Imitation Learning and its Challenges in Robotics.
Active Learning of Humans' Preferences. 2018

UAI workshop on Safety, Risk and Uncertainty in RL. –"–. 2018

UC Berkeley, Center for Human Compatible AI. –"–. 2018

NeurIPS workshop on Machine Learning for Intelligent Transportation Systems. Beating Congestion using Autonomous Cars. 2018

Halmstad University.
Reactive Synthesis and Human Modeling for Human-Robot Systems. 2018

University of Washington, Robotics Seminar. Safe and Interactive Robotics. 2018

UC Santa Barbara, Robotics Seminar. –"–. 2018

UC Santa Cruz, Robotics Seminar. –"–. 2018

Chinese University of Hong Kong in Shenzhen. –"–. 2018

Stanford University, Department Seminar.
Towards a Theory of Safe and Interactive Autonomy. 2017

MIT, Department Seminar. –"–. 2017

UC Berkeley, Department Seminar. –"–. 2017

CMU, Department Seminar. –"–. 2017

Princeton, Department Seminar. –"–. 2017

USC, Department Seminar. –"–. 2017

Cornell, Department Seminar. –"–. 2017

UC San Diego, Department Seminar. –"–. 2017

UC Los Angeles, Department Seminar. –"–. 2017

University of Michigan, Department Seminar. –"–. 2017

UT Austin, Department Seminar. –"–. 2017

Georgia Tech, Department Seminar. –"–. 2017

University of Pennsylvania, Department Seminar. –"–. 2017

Schloss Dagstuhl on Machine Learning and Formal Methods.
Planning for Cars that Coordinate with People. 2017

Schloss Dagstuhl on Non-Zero-Sum-Games and Control.
Correctness and Control for Human-Cyber-Physical Systems. 2015

Microsoft Research, Redmond.
Controller Synthesis for Human-in-the-Loop Systems 2014

Conference & Journal Publications

[52] Erdem Bıyık, Dylan Losey, Malayandi Palan, Nick Landolfi, Gleb Shevchuk, Dorsa Sadigh. Learning Reward Functions from Diverse Sources of Human Feedback: Optimally Integrating Demonstrations and Preferences. *Submitted to The International Journal of Robotics Research (IJRR).*

[51] Erdem Bıyık, Daniel A. Lazar, Ramtin Pedarsani, Dorsa Sadigh. Incentivizing Efficient Equilibria in Traffic Networks with Mixed Autonomy. *Submitted to IEEE Transactions on Control of Network Systems (TCNS).*

[50] Daniel Lazar, Erdem Bıyık, Dorsa Sadigh, Ramtin Pedarsani. Learning How to Dynamically Route Autonomous Vehicles on Shared Roads. *Submitted to IEEE Transactions on Control of Network Systems (TCNS).*

[49] Mengxi Li, Dylan Losey, Jeannette Bohg, Dorsa Sadigh. Learning User-Preferred Mappings for Intuitive Robot Control. *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), October 2020.*

[48] Zheqing Zhu, Erdem Bıyık, Dorsa Sadigh. Multi-Agent Safe Planning with Gaus-

sian Processes. *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), October 2020.*

[47] Jonathan Mern, Dorsa Sadigh, Mykel Kochenderfer. Object Exchangability in Reinforcement Learning. *2020 American Control Conference (ACC), July 2020.*

[46] Hong Jun Jeon, Dylan Losey, Dorsa Sadigh. Shared Autonomy with Learned Latent Actions. *Robotics: Science and Systems (RSS), June 2020.* **(Best Student Paper Award, Finalist)**

[45] Erdem Bıyık, Nicolas Huynh, Mykel Kochenderfer, Dorsa Sadigh. Active Preference-Based Gaussian Process Regression for Reward Learning. *Robotics: Science and Systems (RSS), June 2020.*

[44] Zhangjie Cao, Erdem Bıyık, Woodrow Wang, Allan Raventos, Adrien Gaidon, Guy Rosman, Dorsa Sadigh. Reinforcement Learning based Control of Imitative Policies for Near-Accident Driving. *Robotics: Science and Systems (RSS), June 2020.*

[43] Shushman Choudhury, Jayesh Gupta, Mykel Kochenderfer, Dorsa Sadigh, Jeannette Bohg. Dynamic Multi-Robot Task Allocation under Uncertainty and Temporal Constraints. *Robotics: Science and Systems (RSS), June 2020.*

[42] Malayandi Palan, Shane Barratt, Alex McCauley, Dorsa Sadigh, Vikas Sindhwani, Stephen P. Boyd. Fitting a Linear Control Policy to Demonstrations with a Kalman Constraint. *2nd Learning for Dynamics & Control Conference (L4DC), June 2020.*

[41] Minae Kwon, Erdem Bıyık, Aditi Talati, Karan Bhasin, Dylan P. Losey, Dorsa Sadigh. When Humans Aren't Optimal: Robots that Collaborate with Risk-Aware Humans. *ACM/IEEE International Conference on Human-Robot Interaction (HRI), 2020.* **(Best Paper Award, Honorable Mention)**

[40] Yuhang Che, Allison M. Okamura, Dorsa Sadigh. Efficient and Trustworthy Social Navigation Via Explicit and Implicit Robot-Human Communication. *IEEE Transactions on Robotics (TRO), 2019.*

[39] Dylan P. Losey, Krishnan Srinivasan, Ajay Mandlekar, Animesh Garg, Dorsa Sadigh. Controlling Assistive Robots with Learned Latent Actions. *International Conference on Robotics and Automation (ICRA), May 2020.*

[38] Dylan P. Losey, Mengxi Li, Jeannette Bohg, Dorsa Sadigh. Learning from My Partner's Actions: Roles in Decentralized Robot Teams. *Conference on Robot Learning (CoRL), 2019.*

[37] Erdem Bıyık, Malayandi Palan, Nicholas Landolfi, Dylan P. Losey, Dorsa Sadigh. Asking Easy Questions: A User-Friendly Approach to Active Reward Learning. *Conference on Robot Learning (CoRL), 2019.*

[36] Dylan P. Losey, Dorsa Sadigh. Robots that Take Advantage of Human Trust. *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), November 2019.*

[35] Chandrayee Basu, Erdem Bıyık, Zhixun He, Mukesh Singhal, Dorsa Sadigh. Active Learning of Reward Dynamics from Hierarchical Queries. *Proceedings of*

the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), November 2019.

[34] Erdem Bıyık, Daniel A. Lazar, Dorsa Sadigh, Ramtin Pedarsani. The Green Choice: Learning and Influencing Human Decisions on Shared Roads. *Proceedings of the 58th IEEE Conference on Decision and Control (CDC), December 2019.*

[33] Minae Kwon, Mengxi Li, Alexandre Bucquet, Dorsa Sadigh. Influencing Leading and Following in Human-Robot Teams. *Robotics: Science and Systems (RSS), June 2019.*

[32] Malayandi Palan, Gleb Shevchuk, Nicholas C. Landolfi, Dorsa Sadigh. Learning Reward Functions by Integrating Human Demonstrations and Preferences. *Robotics: Science and Systems (RSS), June 2019.*

[31] Tianhe Yu, Gleb Shevchuk, Dorsa Sadigh, Chelsea Finn. Unsupervised Visuomotor Control through Distributional Planning Networks. *Robotics: Science and Systems (RSS), June 2019.*

[30] Erdem Bıyık, Jonathan Margoliash, Shahrouz Ryan Alimo, Dorsa Sadigh. Efficient and Safe Exploration in Deterministic Markov Decision Processes with Unknown Transition Models. *2019 American Control Conference (ACC), July 2019.*

[29] Elis Stefansson, Jaime Fisac, Dorsa Sadigh, Shankar Sastry, Karl H. Johansson. Human-Robot Interaction for Truck Platooning Using Hierarchical Dynamic Games. *European Control Conference (ECC), June 2019.* **(Best Paper Award, Finalist).**

[28] Ashwini Pokle, Roberto Martin-Martin, Patrick Goebel, Vincent Chow, Hans M. Ewald, Junwei Yang, Zenkai Wang, Amir Sadeghian, Dorsa Sadigh, Silvio Savarese, Marynel Vazquez. Deep Local Trajectory Planning and Control for Robot Navigation. *International Conference on Robotics and Automation (ICRA), May 2019.*

[27] Jaime F. Fisac, Eli Bronstein, Elis Stefansson, Dorsa Sadigh, S. Shankar Sastry, Anca D. Dragan. Hierarchical Game-Theoretic Planning for Autonomous Vehicles. *International Conference on Robotics and Automation (ICRA), May 2019.*

[26] Erdem Bıyık, Dorsa Sadigh. Batch Active Preference-Based Learning of Reward Functions. *Conference on Robot Learning (CoRL), 2018.*

[25] Erdem Bıyık, Daniel A. Lazar, Ramtin Pedarsani, Dorsa Sadigh. Altruistic Autonomy: Beating Congestion on Shared Roads . *International Workshop on Algorithmic Foundations of Robotics (WAFR), 2018.*

[24] Daniel Lazar, Kabir Chandrasekher, Ramtin Pedarsani, Dorsa Sadigh. Maximizing Road Capacity Using Cars that Influence People. *IEEE Conference on Decision and Control (CDC), 2018.*

[23] Jiaming Song, Hongyu Ren, Dorsa Sadigh, Stefano Ermon. Multi-Agent Generative Adversarial Imitation Learning. *Conference on Neural Information Processing Systems (NeurIPS), 2018.*

[22] Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia. Verifying Robustness of Human-Aware Autonomous Cars . *IFAC conference on Cyber-Physical and Human Systems*

(CPHS), 2018.

[21] Dorsa Sadigh, Nick Landolfi, S. Shankar Sastry, Sanjit A. Seshia, Anca Dragan. Planning for Autonomous Cars that Leverages Effects on Human Actions. *Invited to Autonomous Robots (AURO), 2018.*

[20] Susmit Jha, Vasumathi Raman, Dorsa Sadigh, Sanjit A. Seshia. Safe Autonomy Under Perception Uncertainty Using Chance-Constrained Temporal Logic . *Journal of Automatic Reasoning (JAR), 2018.*

[19] Dorsa Sadigh. Safe and Interactive Autonomy: Control, Learning, and Verification. *Ph.D. Dissertation. EECS Department, University of California, Berkeley, August 2017.*

[18] Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia, Anca Dragan. Active Preference-Based Learning of Reward Functions. *Robotics: Science and Systems Conference (RSS), July 2017.*

[17] Negar Mehr, Dorsa Sadigh, Roberto Horowitz, S. Shankar Sastry, Sanjit Seshia. Stochastic Predictive Freeway Ramp Metering from Signal Temporal Logic Specifications. *American Control Conference (ACC), May 2017.*

[16] Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia, Anca Dragan. Information Gathering Actions over Human Internal State. *International Conference on Intelligent Robots and Systems (IROS), 2016.* **(Best Paper in Cognitive Robotics Award, Finalist).**

[15] Tara Rezvani, Katherine Driggs-Campbell, Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia, Ruzena Bajcsy. Towards Trustworthy Automation: User Interfaces that Convey Internal and External Awareness. *IEEE Intelligent Transportation Systems Conference (ITSC), November 2016.*

[14] Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia, Anca Dragan Planning for Autonomous Cars that Leverages Effects on Human Actions . *Robotics: Science and Systems Conference (RSS), 2016.*

[13] Dorsa Sadigh, Ashish Kapoor. Safe Control under Uncertainty with Probabilistic Signal Temporal Logic. *Robotics: Science and Systems Conference (RSS), 2016.*

[12] Shromona Ghosh, Dorsa Sadigh, Pierluigi Nuzzo, Vasumathi Raman, Alexandre Donze, Alberto Sangiovanni-Vincentelli, S. Shankar Sastry, Sanjit Seshia. Diagnosis and Repair for Synthesis from Signal Temporal Logic Specifications. *Conference on Hybrid Systems: Computation and Control (HSCC), 2016.*

[11] Sanjit A. Seshia, Dorsa Sadigh, S. Shankar Sastry. Formal Methods for Semiautonomous Driving. *Design and Automation Conference (DAC), 2015.*

[10] Vasumathi Raman, Alexandre Donze, Dorsa Sadigh, Richard M. Murray, Sanjit Seshia. Reactive Synthesis from Signal Temporal Logic Specifications. *Conference on Hybrid Systems: Computation and Control (HSCC), 2015.*

[9] Dorsa Sadigh, Eric S. Kim, Samuel Coogan, S. Shankar Sastry, Sanjit Seshia. A Learning Based Approach to Control Synthesis of Markov Decision Processes for Linear Temporal Logic Specifications. *IEEE Conference on Decision and Control*

(CDC), 2014.

[8] Dorsa Sadigh, Henrik Ohlsson, S. Shankar Sastry, Sanjit Seshia. Robust Subspace System Identification via Weighted Nuclear Norm Optimization. *International Federation of Automatic Control (IFAC), 2014.*

[7] Dorsa Sadigh, Katherine Driggs-Campbell, Alberto Puggelli, Wenchao Li, Victor Shia, Ruzena Bajcsy, Alberto Sangiovanni-Vincentelli, Shankar Sastry, and Sanjit Seshia. Data-driven probabilistic modeling and verification of human driver behavior. *Formal Verification and Modeling in Human-Machine Systems (AAAI Spring Symposium), 2014.*

[6] Dorsa Sadigh, Katherine Driggs Campbell, Ruzena Bajcsy, S. Shankar Sastry, Sanjit Seshia. User Interface Design and Verification for Semi-autonomous Driving. *Conference on High Confidence Networked Systems, 2014.*

[5] Ashish Tiwari, Bruno Dutertre, Dejan Jovanovic, Thomas de Candia, Dorsa Sadigh, Sanjit Seshia. Safety Envelop in Security. *Conference on High Confidence Networked Systems (HiCoNS), 2014.*

[4] Wenchao Li, Dorsa Sadigh, S. Shankar Sastry, Sanjit Seshia. Synthesis for Human-in-the-Loop Control Systems. *Tools and Algorithms for the Construction and Analysis of Systems (TACAS), 2014.*

[3] Dorsa Sadigh, Sanjit Seshia and Mona Gupta. Automating Exercise Generation: A Step towards Meeting the MOOC Challenge for Embedded Systems. *Workshop on Embedded Systems Education, 2012.*

[2] Orna Kupferman, Dorsa Sadigh, and Sanjit A. Seshia. Synthesis with Clairvoyance. *Haifa Verification Conference (HVC), 2011.*

[1] Jonathan Kotker, Dorsa Sadigh, and Sanjit A. Seshia. Timing Analysis of Interrupt-Driven Programs under Context Bounds. *Formal Methods in Computer Aided Design (FMCAD), 2011.*

Technical Reports & Workshop Papers

[4] Robert X. D. Hawkins, Minae Kwon, Dorsa Sadigh, Noah D. Goodman. Continual Adaptation for Efficient Machine Communication. *Proceedings of the ICML Workshop on Adaptive & Multitask Learning: Algorithms & Systems, June 2019.* **(Best Paper Award).**

[3] Jiaming Song, Hongyu, Ren, Dorsa Sadigh, Stefano Ermon. Multi-Agent Generative Adversarial Imitation Learning. *International Conference on Learning Representations (ICLR), Workshop Track, April 2018.*

[2] Sanjit Seshia, Dorsa Sadigh, S. Shankar Sastry. Towards Verified Artificial Intelligence. *Technical Report, July 2016.*

[1] Debadeepta Dey, Dorsa Sadigh, Ashish Kapoor. Fast Safe Mission Plans for Autonomous Vehicles. *Proceedings of Robotics: Science and Systems Workshop, June 2016.*

Dissertation Dorsa Sadigh. Safe and Interactive Autonomy: Control, Learning, and Verification. *Ph.D. Dissertation; EECS Department, University of California, Berkeley, August 2017.*