

Dorsa Sadigh

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Research Interests	Robotics, Human-Robot Interaction, Control Theory, Formal Methods	
Current Position	Stanford University Assistant Professor Department of Computer Science and Department of Electrical Engineering	September 2017 - present
Education	University of California, Berkeley Ph.D. in Electrical Engineering and Computer Sciences Advisors: Sanjit Seshia and Shankar Sastry Thesis: <i>Safe and Interactive Autonomy: Control, Learning, and Verification</i>	2017
	University of California, Berkeley B.S. in Electrical Engineering and Computer Sciences	2012
Selected Honors & Awards	AFOSR Young Investigator Program Award Best Paper Award Conference on Robot Learning (CoRL) for “ <i>Learning Latent Representations to Influence Multi-Agent Interaction</i> ” Best Student Paper Award (Finalist) Robotics: Science and Systems (RSS) for “ <i>Shared Autonomy with Learned Latent Actions</i> ” IEEE TC-CPS Early Career Award Best Paper Award (Honorable Mention) ACM/IEEE International Conference on Human-Robot Interaction (HRI) for “ <i>When Humans Aren’t Optimal: Robots that Collaborate with Risk-Aware Humans</i> ” National Science Foundation CAREER Award Gilbreth Lecturer at National Academy of Engineering Google Faculty Research Award Amazon Research Award Best Paper Award (Finalist) European Control Conference (ECC), for “ <i>Human-Robot Interaction for Truck Platooning Using Hierarchical Dynamic Games</i> ”	2020 2020 2020 2020 2020 2020 2020 2020 2019 2019

	Best Paper Award	2019
	ICML Workshop on Adaptive & Multitask Learning: Algorithms & Systems, for “ <i>Continual Adaptation for Efficient Machine Communication</i> ”	
	Best Cognitive Robotics Paper (Finalist)	2016
	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) for “ <i>Information Gathering Actions over Human Internal State</i> ”	
	Leon O. Chua Award	2016
	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
	Arthur M. Hopkin Award	2010
	EECS Department, UC Berkeley	
Teaching	CS 237B: Robot Autonomy II	Winter 2020, 2021
	Instructor, Stanford University.	
	CS 221: Artificial Intelligence	Spring 2018, 2019, Fall 2019, 2020
	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.	
Advising & Mentoring	Current Graduate Students	
	Erdem Biyik, 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 CS Mentorship Program	2018 - present
	I have organized the Stanford CS mentorship program, where we connect underrep- resented 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 Uni- versity 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 - 2020 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 – Conference on Robot Learning (CoRL)

Walking the Boundary of Learning and Interaction 2020

NeurIPS Workshop on Robot Learning. – “–.

2020

National Canadian Robotics Network (NCRN) Seminar. – “–.

2020

Distinguished Voices – National Academies of Sciences, Engineering, and Medicine

A Human-Centered Perspective on Interactive Robotics 2020

Panelist – AI Ethics conference at Interdisciplinary Research Center in the Arts, Humanities, and Interpretive Social Sciences at Duke Kunshan University

2020

IPAM workshop on Individual Vehicle Autonomy: Perception and Control.

Interaction-Aware Planning: A Human-Centered Approach toward Autonomous Driving. 2020

Keynote – 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 – 22nd ACM International Conference on Hybrid Systems: Computation and Control (HSCC).

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

Keynote – 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 – Formal Methods in Computer-Aided Design (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

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)*.

[53] Erdem Biyik, 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)*.

[52] Hadas Kress-Gazit, Kerstin Eder, Guy Hoffman, Henny Admoni, Brenna Argall, Ruediger Ehlers, Christoffer Heckman, Nils Jansen, Ross Knepper, Jan Kretinsky, Shelly Levy-Tzedek, Jamy Li, Todd Murphey, Laurel Riek, Dorsa Sadigh. Formalizing and Guaranteeing* Human-Robot Interaction. *Communications of the ACM*, 2020.

[51] Annie Xie, Dylan Losey, Ryan Tolsma, Chelsea Finn, Dorsa Sadigh. Learning Latent Representations to Influence Multi-Agent Interaction. *Proceedings of the 4th Conference on Robot Learning (CoRL)*, November 2020. **(Best Paper Award)**

[50] Robert X. D. Hawkins, Minae Kwon, Dorsa Sadigh, Noah D. Goodman. Continual Adaptation for Efficient Machine Communication. *The 24th Conference on Computational Natural Language Learning (CoNLL)*, November 2020.

[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 Biyik, Dorsa Sadigh. Multi-Agent Safe Planning with Gaussian 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 Biyik, 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 Biyik, 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 Biyik, 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 Biyik, 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 Biyik, 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 Biyik, 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 Biyik, 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 Pople, 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 Biyik, Dorsa Sadigh. Batch Active Preference-Based Learning of Reward Functions. *Conference on Robot Learning (CoRL)*, 2018.
- [25] Erdem Biyik, 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

[7] Mark Beliaev, Woodrow Z. Wang, Daniel A. Lazar, Erdem Bıyık, Dorsa Sadigh, Ramtin Pedarsani. Emergent Correlated Equilibrium through Synchronized Exploration. *RSS 2020 Workshop on Emergent Behaviors in Human-Robot Systems*, 2020.

[6] Kawin Ethayarajh, Dorsa Sadigh. BLEU Neighbors: A Reference-less Approach to Automatic Evaluation. *1st Workshop on Evaluation and Comparison for NLP systems (Eval4NLP)*, 2020.

[5] Siddharth Karamcheti, Dorsa Sadigh and Percy Liang. Continual Learning Adaptive Language Interfaces through Decomposition. *Proceedings of the EMNLP Workshop on Interactive and Executable Semantic Parsing*, 2020.

[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.