



- A Descendant of Generative AI and Control Systems Safety.**  
A. Bajcsy and J. Fisac  
*International Conference on Machine Learning (ICML)*, 2024.  
(submitted)
- [C19] **Adaptive Human Trajectory Prediction via Latent Corridors.**  
N. Thakkar, K. Mangalam, A. Bajcsy, J. Malik  
*European Conference on Computer Vision (ECCV)*, 2024.  
(submitted)
- [C18] **Conformal Decision Theory:  
Safe Autonomous Decisions Without Distributions.**  
J. Lekeufack\*, A.N. Angelopoulos\*, A. Bajcsy\*, M.I. Jordan, J. Malik.  
*International Conference on Robotics and Automation (ICRA)*, 2024.
- [C17] **Learning Vision-Based Pursuit-Evasion Robot Policies.**  
A. Bajcsy\*, A. Loquercio\*, A. Kumar, J. Malik  
*International Conference on Robotics and Automation (ICRA)*, 2024.
- [C16] **What Matters to You? Towards Visual  
Representation Alignment for Robot Learning.**  
R. Tian, C. Xu, M. Tomizuka, J. Malik, A. Bajcsy  
*International Conference on Learning Representations (ICLR)*, 2024.
- [C15] **Deception Game: Closing the Safety-Learning Loop in Interactive  
Robot Autonomy.**  
H. Hu\*, Z. Zhang\*, K. Nakamura, A. Bajcsy, J.F. Fisac  
*Conference on Robot Learning (CoRL)*, 2023.
- [C14] **Towards Modeling and Influencing the Dynamics of Human Learning.**  
R. Tian, M. Tomizuka, A.D. Dragan, A. Bajcsy.  
*International Conference on Human-Robot Interaction (HRI)*, 2023.
- [C13] **Towards Robots that Influence Humans over Long-Term Interaction.**  
S. Sagheb, Y. Mun, N. Ahmadian, B.A. Christie, A. Bajcsy, K. Driggs-Campbell,  
D.P. Losey.  
*International Conference on Robotics and Automation (ICRA)*, 2023.
- [C12] **Safety Assurances for Human-Robot Interaction via Confidence-aware  
Game-theoretic Human Models.**  
R. Tian\*, L. Sun\*, A. Bajcsy\*, M. Tomizuka, A.D. Dragan.  
*International Conference on Robotics and Automation (ICRA)*, 2022.
- [C11] **Analyzing Human Models that Adapt Online.**  
A. Bajcsy, A. Siththaranjan, C.J. Tomlin, A.D. Dragan.  
*International Conference on Robotics and Automation (ICRA)*, 2021.
- [C10] **A Hamilton-Jacobi Reachability-Based Framework for Predicting and  
Analyzing Human Motion for Safe Planning.**  
S. Bansal\*, A. Bajcsy\*, E. Ratner\*, A.D. Dragan, C.J. Tomlin.  
*Conference on Robotics and Automation (ICRA)*, 2020.
- [C9] **An Efficient Reachability-Based Framework for Provably Safe  
Autonomous Navigation in Unknown Environments.**

A. Bajcsy\*, S. Bansal\*, E. Bronstein, V. Tolani, C.J. Tomlin.  
*Conference on Decision and Control (CDC)*, 2019.

[C8] **A Scalable Framework For Real-Time Multi-Robot, Multi-Human Collision Avoidance.**

A. Bajcsy\*, S.L. Herbert\*, D. Fridovich-Keil, J.F. Fisac, S. Deglurkar, A.D. Dragan, C.J. Tomlin.  
*International Conference on Robotics and Automation (ICRA)*, 2019.

[C7] **Learning Under Misspecified Objective Spaces.**

A. Bobu, A. Bajcsy, J.F. Fisac, A.D. Dragan.  
*Conference on Robot Learning (CoRL)*, 2018.  
**(invited to special issue)**

[C6] **Probabilistically Safe Robot Planning with Confidence-Based Human Predictions.**

J.F. Fisac\*, A. Bajcsy\*, S.L. Herbert, D. Fridovich-Keil, S. Wang, C.J. Tomlin, A.D. Dragan.  
*Robotics: Science and Systems (RSS)*, 2018.  
**(invited to special issue)**

[C5] **Learning from Physical Human Corrections, One Feature at a Time.**

A. Bajcsy, D.P. Losey, M.K. O'Malley, A.D. Dragan.  
*International Conference on Human-Robot Interaction (HRI)*, 2018.

[C4] **Learning Robot Objectives from Physical Human Robot Interaction.**

A. Bajcsy\*, D.P. Losey\*, M.K. O'Malley, A.D. Dragan.  
*Conference on Robot Learning (CoRL)*, 2017.  
**(oral, acceptance rate 10%)**

[C3] **A Review of Principles in Design and Usability Testing of Tactile Technology for Individuals with Visual Impairments.**

E.L. Horton, R. Renganathan, B.N. Toth, A.J. Cohen, A.V. Bajcsy, A. Bateman, M.C. Jennings, A. Khattar, R.S. Kuo, F.A. Lee, M.K. Lim, L.W. Migasiuk, A. Zhang, O.K. Zhao, M.A. Oliveira.  
*Assistive Technology*, 2016.

[C2] **Systematic Measurement of Marginal Mark Types on Voting Ballots.**

A. Bajcsy, Y.S. Li-Baboud, M. Brady.  
*NIST IR 8069*, 2015.

[C1] **Depicting Web Images for the Blind and Visually Impaired.**

A. Bajcsy, Y.S. Li-Baboud, M. Brady.  
*SPIE Newsroom*, 2013.

JOURNAL  
ARTICLES

[J8] **Contingency Games for Multi-Agent Interaction.**

L. Peters, A. Bajcsy, C.Y. Chiu, D. Fridovich-Keil, F. Laine, L. Ferranti, J. Alonso-Mora.  
*Robotics and Automation Letters (RA-L)*, 2024.

[J7] **StROL: Stabilized and Robust Online Learning from Humans.**

S.A. Mehta, F. Meng, A. Bajcsy, D.P. Losey  
*Robotics and Automation Letters (RA-L)*, 2024.

- [J6] **Physical Interaction as Communication: Learning Robot Objectives Online from Human Corrections.**  
D.P. Losey, A. Bajcsy, M.K. O'Malley, A.D. Dragan.  
*International Journal of Robotics Research (IJRR)*, 2021.
- [J5] **Efficient Dynamics Estimation with Adaptive Model Sets.**  
E. Ratner, A. Bajcsy, C.J. Tomlin, A.D. Dragan.  
*IEEE Robotics and Automation Letters (RA-L)*, 2021.
- [J4] **A Robust Control Framework for Human Motion Prediction.**  
A. Bajcsy, S. Bansal, E. Ratner, C.J. Tomlin, A.D. Dragan.  
*IEEE Robotics and Automation Letters (RA-L)*, 2020.
- [J3] **Quantifying Hypothesis Space Misspecification in Learning from Human-Robot Demonstrations and Physical Corrections.**  
A. Bobu, A. Bajcsy, J.F. Fisac, S. Deglurkar, A.D. Dragan.  
*IEEE Transactions on Robotics (T-RO)*, 2020.  
**(Honorable Mention for the 2020 IEEE T-RO Best Paper Award)**
- [J2] **Confidence-Aware Motion Prediction for Real-Time Collision Avoidance.**  
D. Fridovich-Keil\*, A. Bajcsy\*, J.F. Fisac, S.L. Herbert, S. Wang, A.D. Dragan, C.J. Tomlin.  
*International Journal of Robotics Research (IJRR)*, 2019.
- [J1] **A User-Centered Design and Analysis of an Electrostatic Haptic Touchscreen System for Students with Visual Impairments.**  
A. Bateman, O. Zhao, A. Bajcsy, M. Jennings, B. Toth, A. Cohen, E. Horton, A. Khattar, R. Kuo, F. Lee, M.K. Lim, L. Migasiuk, R. Renganathan, A. Zhang, M.A. Oliveira.  
*International Journal of Human-Computer Studies*, 2017.
- PRE-PRINTS [P2] **Towards the Unification and Data-Driven Synthesis of Autonomous Vehicle Safety Concepts.**  
K. Leung\*, A. Bajcsy\*, E. Schmerling, M. Pavone.  
*arXiv*: <https://arxiv.org/abs/2107.14412>, 2022.
- [P1] **Intent Demonstration in General-Sum Dynamic Games via Iterative Linear-Quadratic Approximations.**  
J. Li, A. Siththaranjan, S. Sojoudi, C. Tomlin, A. Bajcsy  
*arXiv*, 2024.
- HONORS & AWARDS
- |   |      |
|---|------|
| Google Research Scholar Award                             | 2024 |
| Rising Stars Academic Career Workshop in EECS             | 2021 |
| Honorable Mention for the 2020 IEEE T-RO Best Paper Award | 2020 |
| Robotics: Science and Systems (RSS) Pioneers              | 2020 |
| National Science Foundation Graduate Research Fellowship  | 2016 |
| Berkeley EECS Excellence Award                            | 2016 |

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\* indicates equal contribution.

	Student Researchers of the Year Award, University of Maryland	2016
	CRA Undergraduate Research Award Honorable Mention	2015
	Brendan Iribe Scholar, University of Maryland	2015
TEACHING	Human-Robot Interaction (CMU)	Fall 2024
	Models & Algorithms for Interactive Robotics (CMU)	Spring 2024
	Teaching Assistant: Introduction to Artificial Intelligence (Berkeley)	Fall 2020
	Teaching Assistant: Linear Systems Theory (Berkeley)	Fall 2019
	Teaching Assistant: Object-Oriented Programming (UMD)	Spring 2014
SELECTED INVITED TALKS	<b>DeepMind   Princeton   University of Utah   RSS '24 Workshops</b> <i>Towards Human-AI Safety</i>	2024
	<b>MIT   UW   Georgia Tech   Caltech   Upenn   Cornell   UMichigan</b> <i>Bridging Safety and Learning in Human-Robot Interaction</i>	2023
	<b>Nuro   ICML Autonomous Driving Workshop</b> <i>Practical Safety Assurances for Dynamic Human-Robot Interactions</i>	2022
	<b>ETH: Autonomy Talks   Stanford: Robotics Seminar</b> <i>Introspective Human Motion Prediction for Safe Robot Autonomy</i>	2020
	<b>UChicago Laboratory School: Innovative Robotics Symposium</b> <i>Safe Robots Which Learn From and About Humans</i>	2020
	<b>NIST   ICRA: Long-Term Human Motion Prediction Workshop</b> <i>Confidence-Aware Motion Prediction for Real-time Collision Avoidance</i>	2019
ADVISING & MENTORSHIP	<b>Current Ph.D. Students</b> Kensuke Nakamura, Ran Tian, Ravi Pandya	
	<b>Current MS Students</b> Vibhakar Mohta	
	<b>Current Undergraduate Students</b> Abigail Defranco, Dylan Goetting	
	<b>Past MS Students</b> Regina Wang (MS at Stanford), Charles Tang (Software engineer at Mosaic ML)	
	<b>Past Undergraduate Students</b> Anand Siththaranjan (PhD at Berkeley), Sampada Deglurkar (PhD at Berkeley), Eli Bronstein (PhD at Berkeley)	
PH.D THESIS COMMITTEES	Shaunak Mehta (Virgina Tech), Jay Patrikar (CMU), Katherine Shih (CMU), Benjamin Newman (CMU), Ananya Rao (CMU), Itamar Mishani (CMU)	
OUTREACH	Machine Learning @ Berkeley (invited talk)	2021
	creAIivity (invited talk)	2021
	BAIR & Tranfer-To-Excellence REU (mentoring and invited talks)	2021 - 2022

	AI4ALL (mentor and speaker)	2020 - 2022
	Berkeley AI Research (mentor)	2019
	Girls in Engineering Camp (instructor)	2018 - 2019
	Girl Scouts Engineering Fun Day (demos)	2018
PROFESSIONAL ACTIVITIES	<b>Conference Associate Editor / Area Chair</b>	
	ICLR: International Conference on Learning Representations (AC)	2024
	IROS: International Conference on Robotics and Automation (AE)	2024
	ICRA: International Conference on Robotics and Automation (AE)	2023
	L4DC: Learning for Decision and Control (AC)	2023
	<b>Organizing Committee</b>	
	RSS: Robotics Science & Systems	2023
	<b>External Reviewer</b>	
	CoRL, RSS, RA-L, T-RO, IROS, ICRA, HRI, AuRo, ICCPS, ACC, AACL, PNAS Nexus	
	<b>Workshops Co-Organized</b>	
	4th Workshop on Long-term Human Motion Prediction	2022
	Robotics for People: Perspectives on Interaction, Learning, and Safety	2021
	Robotics: Science and Systems Pioneers	2021
3rd Workshop on Long-term Human Motion Prediction	2021	
2nd Workshop on Robust Autonomy	2020	
Safe Robot Learning and Control in Uncertain Real-World Environments	2019	
PRESS & MEDIA	NBC news <i>“Robots at UC Berkeley Take a Step Forward”</i>	2018
	WIRED <i>“How to Interact With Robots Without Embarrassing Yourself”</i>	2018
	Robohub <i>“Learning Robot Objectives from Physical Human Interaction”</i>	2018