

THE UNIVERSITY OF TEXAS AT AUSTIN
Cockrell School of Engineering
Resume

FULL NAME: David Fridovich-Keil**TITLE:** Assistant Professor**DEPARTMENT:** Aerospace Engineering and Engineering Mechanics**CONTACT INFORMATION**

Department of Aerospace Engineering and Engineering Mechanics
 The University of Texas at Austin
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 Austin, TX 78712
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EDUCATION

University of California, Berkeley	Electrical Engineering & Computer Sciences	Ph.D.	2020
Princeton University	Electrical Engineering	B.S.E.	2015

CURRENT AND PREVIOUS ACADEMIC POSITIONS

Assistant Professor, The University of Texas at Austin	August 2021 - present
Post-Doctoral Researcher, Stanford University	September 2020 - June 2021
Post-Doctoral Researcher, University of California, Berkeley	June 2020 - August 2020

OTHER PROFESSIONAL EXPERIENCE

Advisor, AeroVect Technologies Inc.	August 2023 - present
Motion planning, prediction, and control for autonomous vehicles.	
Software Engineering Intern, Nuro Inc.	Summer 2018
Motion planning and prediction algorithm development for autonomous vehicles.	
Software Engineering Intern, Applied Science & Technology Research Institute	Summer 2014
Image processing for consumer electronics.	
Embedded Systems Intern, Sentinel Photonics	Summer 2013
Signal processing for lightweight, high-precision gas sensing.	

HONORS AND AWARDS

NSF CAREER Award	2024
Demetri Angelakos Memorial Achievement Award	2020
Robotics: Science & Systems Pioneer	2019
Top Reviewer at NeurIPS	2019
Outstanding Graduate Student Instructor	2018
Charles Ira Young Memorial Prize	2015
G. David Forney Jr. Prize	2015
James Hayes-Edger Palmer Prize	2015
NSF Graduate Research Fellowship	2015

MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES

Member, The Institute of Electrical and Electronics Engineers (IEEE)

Member, The American Institute of Aeronautics and Astronautics (AIAA)

PROFESSIONAL SOCIETY/GOVERNMENT SERVICE AND TECHNICAL COMMITTEES**Outside Committees**

IEEE Technical Committee on Aerospace Controls 2023-present

Conference Activities: Organizer

International Automated Vehicle Validation Conference (IAVVC), Local Arrangements Chair 2023

Workshop on Autonomous Systems for Strategic Advantage 2023

Workshop on Strategic, Multi-Agent Interaction, Conference on Robot Learning (CoRL) 2022

Robotics: Science & Systems (RSS) Workshop on Robust Autonomy 2019-2021

Conference Activities: Editor

Associate Editor, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2024

Associate Editor, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2023

Associate Editor, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2022

Conference Activities: Program Committee

Uncertainty in Artificial Intelligence (UAI) 2023

Distributed Autonomous Robotic Systems (DARS) 2022

IFAC Workshop on Cyber-Physical Human Systems (CPHS) 2022

Uncertainty in Artificial Intelligence (UAI) 2022

Learning for Dynamics and Control (L4DC) 2022

Conference Activities: Session Chair

IEEE International Automated Vehicle Validation Conference (IAVVC) 2023

Other ActivitiesPanel Moderator, “AI Learning in Dynamic, Uncertain, and Adversarial Environments,”
UT Austin Defense Research Symposium 2024**OTHER PROFESSIONAL HIGHLIGHTS****Funding Panels and Proposal Review Activity**

NSF CPS 2023

Canadian NSERC 2022

Other Funding Activities

Panelist for “Navigating the CPS CAREER Proposal,” NSF CPS Aspiring PIs meeting 2024

Conference and Journal Review Activities

Automatica

AIAA Journal of Guidance, Control, and Dynamics

International Journal of Robotics Research

IEEE Transactions on Automatic Control

IEEE Transactions on Robotics

IEEE Transactions on Intelligent Vehicles

Optimization Methods and Software
 Robotics: Science & Systems
 IEEE Robotics and Automation Letters
 IEEE International Conference on Robotics and Automation
 IEEE Conference on Decision and Control
 IEEE Conference on Control Technology and Applications
 Learning for Dynamics and Control
 American Control Conference
 Advances in Neural Information Systems
 International Conference on Learning Representations
 PLOS ONE

PUBLICATIONS

Refereed Journal Publications in Rank as Assistant Professor¹

- J1 H. *Khan* and D. Fridovich-Keil, “Leadership inference for multi-agent interactions,” *Robotics and Automation Letters*, vol. 9, pp. 4671–4678, March 2024 [pdf](#)
- J2 R. S. *Thakkar*, A. S. Samyal, D. Fridovich-Keil, Z. Xu, and U. Topcu, “Hierarchical control for cooperative teams in competitive autonomous racing,” *IEEE Transactions on Intelligent Vehicles*, Accepted February 2024 [pdf](#)
- J3 R. S. *Thakkar*, A. S. Samyal, D. Fridovich-Keil, Z. Xu, and U. Topcu, “Hierarchical control for head-to-head autonomous racing,” *Journal of Field Robotics*, vol. 4, pp. 46–69, February 2024 [pdf](#)
- J4 L. Peters, A. Bajcsy, C.-Y. Chiu, D. Fridovich-Keil, F. Laine, L. Ferranti, and J. Alonso-Mora, “Contingency games for multi-agent interaction,” *Robotics and Automation Letters*, vol. 9, pp. 2208–2215, January 2024 [pdf](#)
- J5 L. Peters, V. Rubies-Royo, C. J. **Tomlin**, L. Ferranti, J. Alonso-Mora, C. Stachniss, and D. Fridovich-Keil, “Online and offline learning of player objectives from partial observations in dynamic games,” *International Journal of Robotics Research*, vol. 42, pp. 917–937, June 2023 [pdf](#)
- J6 F. Laine, D. Fridovich-Keil, C.-Y. Chiu, and C. **Tomlin**, “The computation of approximate generalized feedback Nash equilibria,” *SIAM Journal on Optimization*, vol. 33, no. 1, pp. 294–318, 2023 [pdf](#)
- J7 Y. Yu, J. *Salfity*, D. Fridovich-Keil, and U. Topcu, “Inverse matrix games with unique quantal response equilibrium,” *Control Systems Letters*, vol. 7, pp. 643–648, October 2022 [pdf](#)

Refereed Journal Publications in Submission

- SJ1 A. *López* and D. Fridovich-Keil, “Decomposing Control Lyapunov Functions for Efficient Reinforcement Learning,” *Robotics and Automation Letters*, Submitted March 2024 [pdf](#)
- SJ2 J. *Im*, Y. Yu, D. Fridovich-Keil, and U. Topcu, “Coordination in Noncooperative Multiplayer Matrix Games via Reduced Rank Correlated Equilibria,” *Control Systems Letters*, Submitted March 2024 [pdf](#)
- SJ3 J. Li, S. Sojoudi, C. **Tomlin**, and D. Fridovich-Keil, “The Computation of Approximate Feedback Stackelberg Equilibria in Multi-Player Nonlinear Constrained Dynamic Games,” *SIAM Journal on Optimization*, Submitted January 2024 [pdf](#)
- SJ4 S. Chen, Y. E. Bayiz, D. Fridovich-Keil, and U. Topcu, “Relationship design for socially-aware behavior in static games,” *Journal of Autonomous Agents and Multi-Agent Systems*, Submitted December 2023 [pdf](#)

¹Underlines identify myself, *italics* mark students and postdocs I supervise(d) or co-supervise(d) at UT, and **bold** marks PhD and postdoc advisors. Asterisks* indicate equal contribution.

Refereed Journal Publications Prior to Joining UT Austin

- PJ1 E. Rolf*, D. Fridovich-Keil*, M. Simchowitz, B. Recht, and C. J. **Tomlin**, “A successive-elimination approach to adaptive robotic sensing,” *IEEE Transactions on Robotics*, vol. 37, pp. 34–47, July 2020 [pdf](#)
- PJ2 D. Fridovich-Keil*, A. Bajcsy*, J. F. Fisac, S. L. Herbert, S. Wang, A. D. Dragan, and C. J. **Tomlin**, “Confidence-aware motion prediction for real-time collision avoidance,” *International Journal of Robotics Research*, vol. 29, June 2019 [pdf](#)
- PJ3 R. Dobbe, O. Sondermeijer, D. Fridovich-Keil, D. Arnold, D. Callaway, and C. J. **Tomlin**, “Towards distributed energy services: Decentralizing optimal power flow with machine learning,” *IEEE Transactions on Smart Grid*, vol. 11, pp. 1296–1306, August 2019 [pdf](#)

Refereed Conference Proceedings in Rank as Assistant Professor

- C1 B. *Barkley*, A. Zhang, and D. Fridovich-Keil, “An investigation of time reversal symmetry in reinforcement learning,” in *International Conference on Learning for Dynamics & Control (L4DC)*, Accepted March 2024 [pdf](#)
- C2 M. O. Karabag, S. Smith, D. Fridovich-Keil, and U. Topcu, “Encouraging Inferable Behavior for Autonomy: Repeated Bimatrix Stackelberg Games with Observations,” in *American Control Conference*, Accepted January 2024 [pdf](#)
- C3 T. Wolf, D. Fridovich-Keil, and B. A. Jones, “Mutual information-based trajectory planning for cislunar space object tracking using successive convexification,” in *AIAA SCITECH Forum*, January 2024 [pdf](#)
- C4 J. Li, C.-Y. Chiu, L. Peters, F. *Palafox*, M. Karabag, J. Alonso-Mora, S. Sojoudi, C. **Tomlin**, and D. Fridovich-Keil, “Scenario-game ADMM: A parallelized scenario-based solver for stochastic noncooperative games,” in *IEEE Conference on Decision and Control (CDC)*, December 2023 [pdf](#)
- C5 S. Chen, Y. Yu, D. Fridovich-Keil, and U. Topcu, “Soft-Bellman Equilibrium in Affine Markov Games: Forward Solutions and Inverse Learning,” in *IEEE Conference on Decision and Control (CDC)*, December 2023 [pdf](#)
- C6 A. Patil, Y. *Zhou*, D. Fridovich-Keil, and T. Tanaka, “Risk-minimizing two-player zero-sum stochastic differential game via path integral control,” in *IEEE Conference on Decision and Control (CDC)*, December 2023 [pdf](#)
- C7 T. *Westenbroek*, J. *Levy*, and D. Fridovich-Keil, “Enabling efficient, reliable real-world reinforcement learning with approximate physics-based models,” in *Conference on Robot Learning*, November 2023 [pdf](#)
- C8 J. Sun, S. Kousik, D. Fridovich-Keil, and M. **Schwager**, “Connected autonomous vehicle motion planning with video predictions from smart, self-supervised infrastructure,” in *IEEE International Conference on Intelligent Transportation Systems (ITSC)*, September 2023 [pdf](#)
- C9 J. Li, C.-Y. Chiu, L. Peters, S. Sojoudi, C. J. **Tomlin**, and D. Fridovich-Keil, “Cost inference for feedback dynamic games from noisy partial state observations and incomplete trajectories,” in *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, June 2023 [pdf](#)
- C10 P. Washington, D. Fridovich-Keil, and M. **Schwager**, “GrAVITree: Graph-based approximate value function in a tree,” in *American Control Conference (ACC)*, June 2023 [pdf](#)
- C11 Y. Yu, S. Chen, D. Fridovich-Keil, and U. Topcu, “Cost design in atomic routing games,” in *American Control Conference (ACC)*, June 2023 [pdf](#)
- C12 S. Agarwal, D. Fridovich-Keil, and S. P. Chinchali, “Robust forecasting for robotic control: A game-theoretic approach,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2023 [pdf](#)
- C13 M. O. Karabag, D. Fridovich-Keil, and U. Topcu, “Alternating direction method of multipliers for decomposable saddle-point problems,” in *2022 58th Annual Allerton Conference on Communication, Control, and Computing*, IEEE, September 2022 [pdf](#)

- C14 J. Sun, S. Kousik, D. Fridovich-Keil, and M. **Schwager**, “Self-supervised traffic advisors: Distributed, multi-view traffic prediction for smart cities,” in *IEEE International Conference on Intelligent Transportation Systems (ITSC)*, October 2022 [pdf](#)
- C15 C.-Y. Chiu and D. Fridovich-Keil, “GTP-SLAM: Game-theoretic priors for simultaneous localization and mapping in multi-agent scenarios,” in *IEEE Conference on Decision and Control (CDC)*, December 2022 [pdf](#)
- C16 L. Peters, D. Fridovich-Keil, L. Ferranti, C. Stachniss, J. Alonso-Mora, and F. Laine, “Learning mixed strategies in trajectory games,” in *Robotics: Science and Systems (RSS)*, July 2022 [pdf](#)
- C17 D. R. Anthony, D. P. Nguyen, D. Fridovich-Keil, and J. F. Fisac, “Back to the future: Efficient, time-consistent solutions in reach-avoid games,” in *IEEE International Conference on Robotics and Automation (ICRA)*, May 2022 [pdf](#)
- C18 J. Li, D. Fridovich-Keil, S. Sojoudi, and C. **Tomlin**, “Augmented Lagrangian method for instantaneously constrained reinforcement learning problems,” in *IEEE Conference on Decision and Control (CDC)*, December 2021 [pdf](#)

Refereed Conference Publications: In Submission

- SC1 F. *Palafox**, J. Milzman*, D. H. *Lee*, R. *Park*, and D. Fridovich-Keil, “Smooth information gathering in two-player noncooperative games,” in *IEEE Conference on Decision and Control (CDC)*, Submitted March 2024
- SC2 Y. Yu, A. Thorpe, J. Milzman, D. Fridovich-Keil, and U. Topcu, “Sensing resource allocation against data-poisoning attacks in traffic routing,” in *IEEE Conference on Decision and Control (CDC)*, Submitted March 2024
- SC3 J. *Hsin*, S. Agarwal, A. Thorpe, L. Sentis, and D. Fridovich-Keil, “Symbolic Regression on Sparse and Noisy Data with Gaussian Processes,” in *IEEE Conference on Decision and Control (CDC)*, Submitted March 2024 [pdf](#)
- SC4 X. *Liu**, L. Peters*, J. Alonso-Mora, U. Topcu, and D. Fridovich-Keil, “Auto-Encoding Bayesian Inverse Games,” in *Robotics: Science and Systems (RSS)*, Submitted February 2024 [pdf](#)

Refereed Conference Proceedings Prior to Joining UT Austin

- PC1 L. Peters, D. Fridovich-Keil, V. Rubies-Royo, C. **Tomlin**, and C. Stachniss, “Inferring objectives in continuous dynamic games from noise-corrupted partial state observations,” in *Robotics: Science and Systems (RSS)*, July 2021 [pdf](#)
- PC2 D. Fridovich-Keil and C. J. **Tomlin**, “Approximate solutions to a class of reachability games,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2021 [pdf](#)
- PC3 C.-Y. Chiu*, D. Fridovich-Keil*, and C. J. **Tomlin**, “Encoding defensive driving as a dynamic Nash game,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2021 [pdf](#)
- PC4 F. Laine, D. Fridovich-Keil, C.-Y. Chiu, and C. J. **Tomlin**, “Multi-hypothesis interactions in game-theoretic motion planning,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2021 [pdf](#)
- PC5 T. Westenbroek, E. Mazumdar, D. Fridovich-Keil, V. Prabhu, C. J. **Tomlin**, and S. S. Sastry, “Adaptive control for linearizable systems using on-policy reinforcement learning,” in *IEEE Conference on Decision and Control (CDC)*, December 2020 [pdf](#)
- PC6 D. Fridovich-Keil*, V. Rubies-Royo*, and C. J. **Tomlin**, “An iterative quadratic method for general-sum differential games with feedback linearizable dynamics,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2020 [pdf](#)
- PC7 D. Fridovich-Keil, E. Ratner, L. Peters, A. D. Dragan, and C. J. **Tomlin**, “Efficient iterative linear-quadratic approximations for nonlinear multi-player general-sum differential games,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2020 [pdf](#)

- PC8 L. Peters, D. [Fridovich-Keil](#), C. J. **Tomlin**, and Z. Sunberg, “Inference-based strategy alignment for general-sum differential games,” in *International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, May 2020 [pdf](#)
- PC9 T. Westenbroek*, D. [Fridovich-Keil](#)*, E. Mazumdar*, S. Arora, V. Prabhu, S. S. Sastry, and C. J. **Tomlin**, “Feedback linearization for unknown systems via reinforcement learning,” in *IEEE International Conference on Robotics and Automation (ICRA)*, June 2020 [pdf](#)
- PC10 V. Rubies-Royo, D. [Fridovich-Keil](#), S. L. Herbert, and C. J. **Tomlin**, “A classification-based approach for approximate reachability,” in *IEEE International Conference on Robotics and Automation (ICRA)*, May 2019 [pdf](#)
- PC11 S. L. Herbert*, A. Bajcsy*, D. [Fridovich-Keil](#), J. F. Fisac, S. Deglurkar, A. D. Dragan, and C. J. **Tomlin**, “A scalable framework for real-time multi-robot, multi-human collision avoidance,” in *IEEE International Conference on Robotics and Automation (ICRA)*, May 2019 [pdf](#)
- PC12 D. [Fridovich-Keil](#)*, J. F. Fisac*, and C. J. **Tomlin**, “Safely probabilistically complete real-time planning and exploration in unknown environments,” in *IEEE International Conference on Robotics and Automation (ICRA)*, May 2019 [pdf](#)
- PC13 J. F. Fisac*, A. Bajcsy*, S. L. Herbert, D. [Fridovich-Keil](#), S. Wang, C. J. **Tomlin**, and A. D. Dragan, “Probabilistically safe robot planning with confidence-based human predictions,” in *Robotics: Science and Systems (RSS)*, June 2018 [pdf](#)
- PC14 D. [Fridovich-Keil](#)*, S. L. Herbert*, J. F. Fisac, S. Deglurkar, and C. J. **Tomlin**, “Planning, fast and slow: A framework for adaptive real-time safe trajectory planning,” in *IEEE International Conference on Robotics and Automation (ICRA)*, May 2018 [pdf](#)
- PC15 R. Dobbe*, D. [Fridovich-Keil](#)*, and C. J. **Tomlin**, “Fully decentralized policies for multi-agent systems: An information theoretic approach,” in *Advances in Neural Information Processing Systems (NeurIPS)*, pp. 2941–2950, December 2017 [pdf](#)
- PC16 D. [Fridovich-Keil](#), N. Hanford, M. P. Chapman, C. J. **Tomlin**, M. K. Farrens, and D. Ghosal, “A model predictive control approach to flow pacing for TCP,” in *Allerton Conference on Communication, Control, and Computation*, pp. 988–994, October 2017 [pdf](#)
- PC17 D. [Fridovich-Keil](#), E. Nelson, and A. Zakhori, “AtomMap: A probabilistic amorphous 3D map representation for robotics and surface reconstruction,” in *IEEE International Conference on Robotics and Automation (ICRA)*, pp. 3110–3117, June 2017 [pdf](#)

Software

- W1 D. [Fridovich-Keil](#), “ILQGames: Iterative linear-quadratic games,” 2019
- W2 D. [Fridovich-Keil](#), “FaSTrack: Fast and safe tracking,” 2018

INVITED ORAL PRESENTATIONS²

- O1 April 2024, “Information-Aware Algorithms for Smooth Dynamic Games,” GRASP seminar, Penn
- O2 March 2024, “Inverse games: a MPEC by any other name...,” Interactive Robotics Guest Lecture, CMU
- O3 December 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Workshop on Models and Algorithms for Path Planning, UT Austin
- O4 December 2023, “Differential Games: A Brief History and Modern Developments,” ASEN 6519 Guest Lecture, CU Boulder
- O5 November 2023, “An Introduction to Trajectory Optimization,” RBT 350 Guest Lecture, UT Austin
- O6 October 2023, “Nested Optimization and Feedback Games,” CMS 248 Guest Lecture, Caltech
- O7 September 2023, “Regulating a Digitally-Transformed NAS: A Game-Theoretic Perspective,” Workshop on Clean Slate Approaches to Crewed and Uncrewed Air Traffic Operations, UC Berkeley

²D. Fridovich-Keil was the sole presenter.

- O8 September 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Robotics Seminar, University of Illinois–Urbana Champaign
- O9 July 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Control-X Seminar, University of Washington
- O10 June 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Robotics Seminar, Northeastern University
- O11 May 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Robotics Seminar, TU Delft
- O12 May 2023, “Dynamic Game Models for Multi-Agent Interactions: The Role of Information in Designing Efficient Algorithms,” Robotics Seminar, Princeton University
- O13 April 2023, “Dynamic Game Models for Multi-Agent Interactions: Forward and Inverse Solutions,” Babuška Forum, Oden Institute, UT Austin
- O14 November 2022, “Dynamic Game Models for Multi-Agent Interactions: Forward and Inverse Solutions,” CMS/EC 248 Guest Lecture, Caltech
- O15 October 2022, “Dynamic Game Models for Multi-Agent Interactions: Forward and Inverse Solutions,” Nuro [video](#)
- O16 September 2022, “Mixing Continuous Strategies: A Case Study in Trajectory Games,” Allerton, UIUC
- O17 May 2022, “Learning Mixed Strategies in Lifted Trajectory Games,” Autonomy Talks, ETH Zürich [video](#)
- O18 May 2022, “What is Feedback, Really?” EE290 Guest Lecture, UC Berkeley
- O19 April 2022, “Learning to Compete: Efficient Solutions for Noncooperative Games,” Texas Robotics Symposium, UT Austin
- O20 April 2022, “Learning in Noncooperative Games: Efficient Algorithms and Open Challenges,” Amazon Robotics
- O21 November 2021, “A Brief Tour of Dynamic Games for Multi-Agent Modeling,” Aerospace Engineering and Engineering Mechanics External Advisory Committee, UT Austin
- O22 November 2021, “A Brief Tour of Dynamic Games for Multi-Agent Modeling,” Aerospace Engineering Department Seminar, CU Boulder
- O23 October 2021, “A Brief Tour of Dynamic Games for Multi-Agent Modeling,” Control, Autonomy, and Robotics Seminar, UT Austin
- O24 July 2021, “A Brief Tour of Dynamic Games for Multi-Agent Modeling,” Workshop on Perception and Control for Autonomous Navigation in Crowded, Dynamic Environments, Robotics: Science & Systems [video](#)
- O25 July 2021, “A Brief Tour of Dynamic Games for Multi-Agent Modeling,” Semiautonomous Seminar, UC Berkeley.
- O26 July 2021, Robotics Research Debate, Robotics: Science & Systems Pioneers Workshop.
- O27 April 2021, “Parallelizable Methods for Multimodal Stochastic Optimal Control,” NASA ULI Joint Meeting, Stanford.
- O28 2019, “A Scalable Framework for Real-Time Multi-Robot, Multi-Human Collision Avoidance,” Connected and Automated Vehicles, University of Michigan.
- O29 2019, “Iterative Linear Quadratic Approximations for Nonlinear Differential Games,” Robotic Manipulation and Interaction, UC Berkeley.
- O30 2019, “Iterative Linear Quadratic Approximations for Nonlinear Multi-Player General-Sum Differential Games,” Berkeley Artificial Intelligence Lab, UC Berkeley.
- O31 2019, “Toward Robust Autonomy in Multi-Agent Safety-Critical Systems,” DARPA Assured Autonomy Program, Northrop Grumman.
- O32 2019, “Toward Robust Autonomy in Uncertain Safety-Critical Systems,” Nuro.

O33 2019, “Toward Robust Autonomy in Uncertain Safety-Critical Systems,” Postmates X.

David Fridovich-Keil, Assistant Professor

The University of Texas at Austin

Department of Aerospace Engineering and Engineering Mechanics

Dr. David Fridovich-Keil is the Director of the Control and Learning for Autonomous Robotics (CLeAR) Laboratory, a core member of the Texas Robotics consortium, and an affiliated member of the Oden Institute for Computational Engineering and Sciences. He received his B.S.E. in Electrical Engineering from Princeton University and his Ph.D. in Electrical Engineering & Computer Sciences from the University of California, Berkeley. His research spans optimal control, dynamic game theory, learning for control and robot safety. Fridovich-Keil is the recipient of an NSF Graduate Research Fellowship and an NSF CAREER Award.