

THE UNIVERSITY OF TEXAS AT AUSTIN
Cockrell School of Engineering
Resume

FULL NAME: Efstathios Bakolas

TITLE: Associate Professor, Eli H. and Ramona Thornton Centennial Fellowship in Engineering

DEPARTMENT: Aerospace Engineering and Engineering Mechanics

EDUCATION:

National Technical University of Athens	Mechanical Engineering	Diploma	Spring 2004
Georgia Institute of Technology	Aerospace Engineering	MS	Spring 2007
Georgia Institute of Technology	Aerospace Engineering	PhD	Fall 2011

CURRENT AND PREVIOUS ACADEMIC POSITIONS:

Georgia Institute of Technology	Post-doctoral Fellow	February 2012-July 2012
University of Texas at Austin	Assistant Professor	Fall 2012-August 2019
University of Texas at Austin	Associate Professor	09/2019 – 08/2026
University of Texas at Austin	Professor	08/2026 - present

OTHER PROFESSIONAL EXPERIENCE:

MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES:

American Institute of Aeronautics and Astronautics (Member since 2008, Senior Member since 2016, Associate Fellow since January 2025)

Institute of Electrical and Electronics Engineers (Member since 2010, Senior Member since 2022)

PROFESSIONAL SOCIETY AND MAJOR GOVERNMENTAL COMMITTEES:

Conference Activities

Organizing Committee (Vice Chair: Special Sessions) of ACC 2025, Denver, CO, July 2025

Best Student Award Judge, ACC 2024, Toronto, Canada

Associate Editor, American Control Conference, 2016-2024.

Associate Editor, Modeling, Estimation and Control Conference (IFAC MECC) 2021, 2022

Associate Editor At Large (International Program Committee), IEEE CDC 2021

Chair/co-chair of one or more sessions, ACC 2013-2024,

Organizer of Workshop in IEEE CDC 2019: “Uncertainty Synthesis,” Nice, France, December 2019.

Journal Activities

Senior Editor (for Guidance and Control Technical Area) IEEE Transactions on Aerospace and Electronic Systems, June 2025-June 2028

Associate Editor, IEEE Transactions on Aerospace and Electronic Systems, November 2022-June 2025

Associate Editor, Aerospace Science and Technology, September 2016-August 2021

Guest Editor, ASME Journal of Dynamic Systems, Measurement and Control (Special Issue on Data-driven Modeling and Control of Dynamical Systems), 2023

Workshop

NSF-CPS Annual PI Meeting (2021)

NSF-NRI Annual PI Meeting (2020, 2021, 2022)

ARL-Strong Summer Summit Series 2020 (cycle 2), 06/02/20 – 08/06/20,

OTHER PROFESSIONAL HIGHLIGHTS:

Served on NSF Panel for IIS Program, June 2021
 Served on NSF Panel for IIS Program, October 2018
 Served on NSF Panel for CMMI Program, 2017
 Served as one of the main organizers of Texas System Day 2016 at UT Austin

UNIVERSITY COMMITTEE ASSIGNMENTS:**Administrative Assignments****University****Cockrell School of Engineering**

Academic Support CSE Committee (09/01/2019-08/15/2024)
 Equal Opportunity in Engineering (09/01/2014-08/31/2017)
 Faculty Focus Group Cockrell School Website Redesign (2016-2017)

Department

ASE Undergraduate Curriculum Committee (09/2020-08/2021)
 ASE ABET Review Committee (Summer 2021)
 UAV Team—Advisor (ASE/EM Department, 09/01/2017-present)
 Strategic Planning Committee-- Member (ASE/EM Department, 09/01/2015-09/01/2018)
 Website Committee—Chair (ASE/EM Department, 09/01/2016-08/31/2019)
 Sigma Gamma Tau —Advisor (ASE/EM Department, 09/01/2013-08/31/2016)
 Faculty Search Committee—Member (ASE/EM Department, 09/01/2014-08/31/2015)

HONORS AND AWARDS:

1. Outstanding Associate Editor Award, IEEE Transactions on Aerospace and Electronic Systems, 2024
2. Finalist of Best AIAA SciTech GNC Graduate Student Paper (as advisor), Jan 2024
3. Letter of recognition for serving as an excellent reviewer for AIAA Journal of Guidance, Control, and Dynamics, 2011, 2013, 2014, 2015, 2016, 2017, 2018, 2022.
4. Student Engineering Council's Award for Best Professor in ASE/EM, 2015-2016.
5. Best paper in session, American Control Conference, 2016 (as advisor of Selvakumar).
6. Travel Award, American Control Conference, 2021, 2024 (as advisor of Y. Lee).
7. Travel Award, American Control Conference, 2016, 2017 (as advisor of Pylorof).
8. Travel Award, American Control Conference, 2016 (as advisor of Selvakumar).
9. Best paper in session, AIAA Sci-Tech GNC, 2015 (as advisor of Pylorof).
10. Best paper in session, American Control Conference, 2010, 2014.
11. Scholarship for Greeks studying abroad at the PhD level from A. Onassis Public Benefit Foundation, 2008-2011.
12. Gerondelis Foundation fellowship, 2007-2008.
13. Scholarship for Greeks studying abroad at the Master level from A. Onassis Public Benefit Foundation, 2005-2007.
14. Yearly fellowship for academic excellence, Greek National Fellowship Institute, 1999-2003.
15. Yearly fellowship for academic excellence, Technical Chamber of Greece, 1999-2004.
16. Academic award D. Thomaidi, N.T.U.A., awarded to the top ranked student among the whole body of undergraduate students (more than 700 students) of the School of Mechanical Engineering, 2002-2003.
17. Annual academic award C. Papakyriakopoulou for Excellence in Mathematics, N.T.U.A., 1999-2001.
18. Fellowship N. I. Kritikou for Excellence in Mathematics, N.T.U.A., 1999-2000.

PUBLICATIONS:**Refereed Journal Publications**

1. Bakolas, E. and Tsiotras, P., "The Zermelo-Voronoi Diagram: a Dynamic Partition Problem," *Automatica*, vol. 46, no. 12, pp. 2059-2067, 2010.
2. Saleh, J. H., Marais, K. B., Bakolas, E. and Cowlagi R. V. "Highlights from the Literature on Accident Causation and System Safety: Review of Major Ideas, Recent Contributions, and Challenges," *Reliability Engineering & System Safety*, vol. 95, no. 11, pp. 1105-1116, 2010.
3. Bakolas, E. and Tsiotras, P., "Optimal Synthesis of the Asymmetric Sinistral/Dextral Markov-Dubins Problem," *Journal of Optimization Theory and Applications*, vol. 150, no. 2, pp. 233-250, 2011.
4. Bakolas, E. and Saleh, J. H., "Augmenting Defense-in-Depth with the Concepts of Observability and Diagnosability from Control Theory and Discrete Event Systems," *Reliability Engineering & System Safety*, vol. 96, no.1, pp.184-193, 2011.
5. Tsiotras, P., Jung, D. and Bakolas, E., "Multiresolution hierarchical path-planning using wavelet decompositions," *Journal of Intelligent and Robotic Systems*, vol. 66, no. 4, pp. 505-522, 2011.
6. Bakolas, E. and Tsiotras, P., "Feedback navigation in an uncertain flow-field and connections with pursuit strategies", *Journal of Guidance, Control, and Dynamics*, vol.35, no.4, pp. 1268-1279, 2012.
7. Bakolas, E., and Tsiotras, P., "Relay Pursuit of a Maneuvering Target Using Dynamic Voronoi Diagrams," *Automatica*, vol. 48, no. 9, pp. 2213–2220, 2012.
8. Bakolas, E. and Tsiotras, P., "Optimal Synthesis of the Zermelo-Markov-Dubins Problem in a Constant Drift Field," *Journal of Optimization Theory and Applications*, vol. 155, no. 2, 469-492, 2013.
9. Bakolas, E. and Tsiotras, P., "Optimal Partitioning for Spatiotemporal Coverage in a Drift Field," *Automatica*, vol. 49, no. 7, 2064-2073, 2013.
10. Anderson, R., Bakolas E., Milutinovic, D. and Tsiotras, P., "Optimal Feedback Guidance of a Small Aerial Vehicle in a Stochastic Wind," *Journal of Guidance, Control, and Dynamics* vol. 36, issue 4, pp. 975-985, 2013.
11. Bakolas, E., "Optimal Partitioning for Multi-Vehicle Systems Using Quadratic Performance Criteria," *Automatica*, vol. 49, issue 11, pp. 3377–3383, 2013.
12. Bakolas, E., "Optimal Guidance of the Isotropic Rocket in the Presence of Wind," *Journal of Optimization Theory and Applications*, vol. 162, no. 3, p. 954-974, 2014.
13. Saleh, J. H., Haga, R. A., Favaro, F. M. and Bakolas, E., "Texas City Refinery Accident: Case Study in Breakdown of Defense-In-Depth and Violation of the Safety-Diagnosability Principle in Design," *Engineering Failure Analysis*, vol. 36, p. 121-133, 2014.
14. Bakolas, E., "Decentralized Spatial Partitioning for Multi-Vehicle Systems in Spatiotemporal Flow-Field," *Automatica*, vol. 50, no. 9, pp. 2389–2396, 2014.
15. Bakolas, E., "Decentralized Spatial Partitioning Algorithms for Multi-Vehicle Systems Based on the Minimum Control Effort Metric," *Systems & Control Letters*, vol. 73, November, pp. 81-87, 2014.
16. Bakolas, E., "Feedback Guidance in Uncertain Spatiotemporal Wind Using a Vector Backstepping Algorithm," *Journal of Guidance, Control, and Dynamics*, vol. 38, no. 4, pp. 631-642, 2015.
17. Bakolas, E. "Partitioning Algorithms for Multi-Agent Systems Based on Finite-Time Proximity Metrics," *Automatica*, vol. 55, no. 5, pp. 176-182, 2015.
18. L'Afflitto, A., Haddad, W. M. and Bakolas, E., "Partial-State Stabilization and Optimal Feedback Control," *Int. J. Robust. Nonlinear Control*, vol. 26, pp. 1026-1050, 2016.
19. Marchidan, A. and Bakolas, E., "Numerical Techniques for Minimum-Time Routing on a Sphere with Realistic Winds," *Journal of Guidance, Control, and Dynamics*, Vol. 39, No. 1, pp. 188-193, 2016.
20. Bakolas, E. and Marchidan, A., "Time-Optimal Control of a Self-Propelled Particle in a Spatiotemporal Flow Field," *International Journal of Control*, vol. 89, no. 3, pp. 623-634, 2016.
21. Bakolas, E., "Distributed Partitioning Algorithms for Multi-Agent Networks with Quadratic Proximity Metrics and Sensing Constraints," *Systems & Control Letters*, vol. 91, no. 5, pp. 36-42, 2016.
22. Bakolas, E., "On the finite-time capture of a fast moving target," *Optimal Control, Applications and Methods*, vol. 38, no. 5, pp. 778-794, 2017.
23. Bakolas, E., "Distributed Partitioning Algorithms for Locational Optimization of Multi-Agent Networks in SE(2)," *IEEE Transactions on Automatic Control*, vol. 63, no. 1, pp. 101-116, 2018.

24. Bakolas, E., "Finite-Horizon Covariance Control for Discrete-Time Stochastic Linear Systems Subject to Input Constraints," *Automatica*, vol. 91, pp. 61-68, 2018.
25. Bakolas, E., "Constrained Minimum Variance Control for Discrete-Time Stochastic Linear Systems," *Systems & Control Letters*, vol. 113, pp. 109-116, 2018.
26. Selvakumar, J. and Bakolas, E., "Robust Time-Optimal Guidance in a Partially Uncertain Time-Varying Flow-Field," *Journal of Optimization Theory and Applications*, vol. 179, no. 1, p. 240-264, 2018.
27. Bakolas, E., "Dynamic Output Feedback Control of the Liouville Equation for Discrete-Time SISO Linear Systems," *IEEE Transactions on Automatic Control*, 2019, Volume: 64, Issue: 10, 2019.
28. E. Bakolas, E., "On the Computation of Sparse Solutions to the Basic Controllability Problem for Discrete-Time Linear Systems," *Journal of Optimization Theory and Applications*, vol. 183, pp 292–316, 2019.
29. Marchidan, A. and Bakolas, E. "Collision Avoidance for Unmanned Aerial Vehicles in the Presence of Static and Moving Obstacles," *Journal of Guidance, Control, and Dynamics*, Volume: 43, Issue: 1, pp 96-110, 2020.
30. Pylorof, D., Bakolas, E. and Chan, K. "Design of Robust Lyapunov-based Observers for Nonlinear Systems with Sum-of-Squares Programming," *IEEE Control Systems Letters*, vol. 4(2), p. 283-288, 2020.
31. Demetriou, M. A. and Bakolas, E. "Navigating over 3D environments while minimizing cumulative exposure to hazardous fields," *Automatica*, vol 115, no. 5, 2020.
32. Selvakumar, J. and Bakolas, E., "Feedback Strategies for a Reach-Avoid Game with a Single Evader and Multiple Pursuers," *IEEE Transactions of Cybernetics*, vol. 51, no. 2, pp. 696-707, 2021.
33. Pylorof, D. and Bakolas, E. "Safe nonlinear control design for input constrained polynomial systems using sum-of-squares programming," *International Journal of Control*, vol. 94, no. 9, pp. 2603-261, 2021.
34. Bakolas, E. "Workspace Partitioning and Topology Discovery Algorithms for Heterogeneous Multi-Agent Networks," *IEEE Transactions on Control of Network Systems*, 2020, vol. 8, no. 1, 354-366, 2021.
35. A. Tsolovikos, E. Bakolas, S. Suryanarayanan and D. Goldstein, "Estimation and Control of Fluid Flows Using Sparsity-Promoting Dynamic Mode Decomposition," in *IEEE Control Systems Letters*, vol. 5, no. 4, pp. 1145-1150, 2021.
36. I. Balci and E. Bakolas, "Covariance Steering of Discrete-Time Stochastic Linear Systems Based on Wasserstein Distance Terminal Cost," *IEEE Control Systems Letters*, vol. 5, no. 6, pp. 2000-2005, 2021.
37. J. Lee, E. Bakolas, L. Sentis, "An efficient and direct method for trajectory optimization of robots constrained by contact kinematics and forces," *Autonomous Robots*, vol. 45, pp. 135–153, 2021.
38. A. Tsolovikos, S. Suryanarayanan, E. Bakolas, and D. Goldstein, "Model Predictive Control of Material Volumes with Application to Vortical Structures," *AIAA Journal*, Vol. 59, No. 10, 2021, pp. 4057-4070, doi: doi/abs/10.2514/1.J060413
39. V. Zinage and E. Bakolas, "Koopman Operator Based Modeling for Quadrotor Control on SE(3)," *IEEE Control Systems Letters*, vol. 6, pp. 752-757, 2022, doi:10.1109/LCSYS.2021.3085963
40. Y. Lee and E. Bakolas, "Guarding a Convex Target Set from an Attacker in Euclidean Spaces," *IEEE Control Systems Letters*, 2021, DOI: 10.1109/LCSYS.2021.3132083
41. J. Selvakumar and E. Bakolas, "Min-Max Q-Learning for Multi-Player Pursuit-Evasion Games," *Neurocomputing*, Volume 475, 2022, pg. 1-14, DOI: 10.1016/j.neucom.2021.12.025
42. J. Lee, E. Bakolas, L. Sentis, "Hierarchical Task-Space Optimal Covariance Control with Chance Constraints", *IEEE Control Systems Letters*, vol. 6, pp. 2359-2364, 2022, DOI: 10.1109/LCSYS.2022.3153094
43. Marchidan, A. and Bakolas, E., "A local reactive steering law for 2D collision avoidance with curvature constraints and constant speed," *Robotics and Autonomous Systems*, Volume 155, 2022, 104156 (19 pages), doi:10.1016/j.robot.2022.104156
44. A. Abdulghafoor and E. Bakolas, "Two-Level Control of Multi-Agent Networks for Dynamic Coverage Problems," *IEEE Transactions on Cybernetics*, Volume: 53, Issue: 7, 2023, 4067 – 4078, DOI: 10.1109/TCYB.2021.3131292
45. A. Abdulghafoor and E. Bakolas, "Motion Coordination of Multi-Agent Networks for Multiple Target Tracking with Guaranteed Collision Avoidance," *Journal of Intelligent and Robotic Systems*, 107, 5 (2023). DOI:10.1007/s10846-022-01786-y
46. Vrushabh Zinage, Efstathios Bakolas, "Neural Koopman Lyapunov control," *Neurocomputing*, Volume 527, 2023, Pages 174-183, <https://doi.org/10.1016/j.neucom.2023.01.029>.
47. A. Z. Abdulghafoor and E. Bakolas, "Multi-Agent Distributed Optimal Control for Tracking Large-Scale Multi-Target Systems in Dynamic Environments," in *IEEE Transactions on Cybernetics*, vol. 54, no. 5, pp. 2866-2879, May 2024, doi: 10.1109/TCYB.2023.3302288.

48. Alexandros Tsolovikos, Akshit Jariwala, Saikishan Suryanarayanan, Efstathios Bakolas, and David Goldstein, "Separation Delay in Turbulent Boundary Layers via Model Predictive Control of Large-Scale Motions," *Physics of Fluids*, Vol. 35, No. 11, 115118 (2023), DOI:10.1063/5.0169138
49. Y. Lee and E. Bakolas, "Solutions for Multiple-Defender Single-Attacker Convex Target Guarding Games: Verification via Parametric Optimization," *IEEE Transactions on Automatic Control*, 2024, DOI:10.1109/TAC.2024.3379948
50. I. Balci and E. Bakolas, "Constrained Minimum Variance and Covariance Steering Based on Affine Disturbance Feedback Control Parameterization," *International Journal of Robust and Nonlinear Control*, 2024, DOI:10.1002/rnc.7346
51. Alexandros Tsolovikos, Efstathios Bakolas, and David Goldstein, "Dynamic Mode Decomposition with Gaussian Process Regression for Control of High-Dimensional Nonlinear Systems," *ASME Journal of Dynamic Systems, Measurement and Control*, 146(6): 064501, Nov., 2024
52. Zinage, V., Arjun Ram, S. P., Akella, M., & Bakolas, E. (2024). Semi-global Exponential Stability for Dual Quaternion Based Rigid-Body Tracking Control. In *AIAA Journal of Guidance, Dynamics, and Control* (2024).
53. Chandra, R., Zinage, V., Bakolas, E., Stone, P., & Biswas, J. (2025). Deadlock-free, Safe, and Decentralized Multi-Robot Navigation in Social Mini-Games via Discrete-Time Control Barrier Functions. *Autonomous Robots* (note: accepted in March 2025)
54. Ahmed Khalil, Yoonjae Lee, Efstathios Bakolas, "Distributed and Localized Covariance Control of Coupled Systems: A System Level Approach", *IEEE Control Systems Letters (L-CSS)*, 9, 5, pp. 180 – 185, 2025. DOI: [10.1109/LCSYS.2025.3566703](https://doi.org/10.1109/LCSYS.2025.3566703)
55. Donghae Kim, Yoonjae Lee, Andrew J. Miller, Efstathios Bakolas, and Maruthi R. Akella (2026), "Game-Theoretic Distributed Sensor Tasking in Earth Observation Satellite Constellations," *AIAA Journal of Guidance, Control, and Dynamics*, 49 (4), 1023-1033, DOI:10.2514/1.G009119
56. Burtsev, A., Jariwala, A., Bakolas, E., & Goldstein, D. B. (2026) "Adaptive Feedback Flow Control for Finite Wings," *AIAA Journal*, <https://doi.org/10.2514/1.J066619>
57. A. Khalil and E. Bakolas (2026) "ADMM-EKI: Principled Refinement with Local Guarantees for Constrained Nonlinear MPC", in *IEEE Control Systems Letters*, DOI: 10.1109/LCSYS.2026.3710135
58. A. James, E. Bakolas, (2026) "Goal-Oriented Multi-Modal Motion Prediction for Multi-Agent Systems", *AIAA Journal of Aerospace Information Systems* (note: accepted in June 2026)
59. A. James, E. Bakolas, (2026) "Motion prediction of multi-agent systems with multi-view clustering", *Robotics and Autonomous Systems*, Volume 202, 2026, 105471, DOI:10.1016/j.robot.2026.105471.

Refereed Conference Proceedings

1. Tsiotras, P. and Bakolas, E., "A Hierarchical On-Line Path-Planning Scheme Using Wavelets," in *European Control Conference*, Kos, Greece, pp. 2806-2812, July 2-5, 2007.
2. Bakolas, E. and Tsiotras, P., "Multiresolution Path-Planning Using Sector Based Decompositions from Sensor Data," in *AIAA Guidance and Control Conference and Exhibit*, Honolulu, HI, August 18-21, 2008 (number of pages 11).
3. Bakolas, E. and Tsiotras, P., "On-Line, Kinodynamic Trajectory Generation through Rectangular Channels Using Path and Motion Primitives," in *47th IEEE Conference on Decision and Control*, Cancun, Mexico, pp. 3725-3730, December 9-11, 2008.
4. Bakolas, E. and Tsiotras, P., "On the Generation of Nearly Optimal, Planar Paths of Bounded Curvature and Bounded Curvature Gradient," in *American Control Conference*, St. Louis, Missouri, USA, pp. 385-390, June 10-12, 2009.
5. Bakolas, E. and Saleh, J. H., "Augmenting the Traditional Defense-in-Depth Strategy with the Concept of a Diagnosable Safety Architecture," in *ESREL Conference*, Prague, Czech Republic, pp. 2113-2122, September 7-10, 2009.
6. Bakolas, E. and Tsiotras, P., "The Asymmetric Sinistral/Dextral Markov-Dubins Problem," in *48th IEEE Conference on Decision and Control*, Shanghai, China, pp. 5649-5654, December 15-18, 2009.
7. Bakolas, E. and Tsiotras, P., "Minimum-Time Paths for a Light Aircraft in the Presence of Regionally-Varying Strong Winds," In *AIAA Infotech 'AT' Aerospace*, Atlanta, Georgia, AIAA 2010--3380, April, 2010 (number of pages 14).

8. Bakolas, E. and Tsiotras, P., "Time-Optimal Synthesis for the Zermelo-Markov-Dubins Problem: The Constant Wind Case," in *American Control Conference*, Baltimore, MD, pp. 6163-6163, June 30-July 2, 2010.
9. Bakolas, E. and Tsiotras, P., "The Zermelo-Voronoi Diagram: a Dynamic Partition Problem," in *American Control Conference*, Baltimore, MD, pp. 1320-1325, June 30-July 2, 2010.
10. Bakolas, E. and Tsiotras, P., "Optimal Pursuit of Moving Targets using Dynamic Voronoi Diagrams," in *IEEE Decision and Control Conference*, Atlanta, GA, pp. 7431-7436, December 15-17, 2010.
11. Bakolas, E. and Tsiotras, P., "Optimal Pursuer and Moving Target Assignment using Dynamic Voronoi Diagrams," in *American Control Conference*, San Francisco, CA, pp. 5444-5449, June 29-July 1, 2011.
12. Bakolas, E. and Zhao, Y. and Tsiotras, P., "Initial Guess Generation for Aircraft Landing Trajectory Optimization," in *AIAA Guidance and Control Conference and Exhibit*, Portland, OR, August 8-11, 2011 (number of pages 16).
13. Bakolas, E. and Tsiotras, P., "Relay Pursuit of a Maneuvering Target by a Group of Pursuers," in *IEEE Conference on Decision and Control*, Orlando, FL, pp. 4270-4275, December 12-15, 2011.
14. Haga, R. A., Saleh, J. H. and Bakolas, E., "Texas City Refinery Explosion: Case Study in Breakdown of Defense-In-Depth and Violation of the Safety-Diagnosability Principle," in *Proceedings of PSAM / ESREL 2012*, Helsinki, Finland, June 25-29, 2012 (number of pages: 10).
15. Anderson, R., Bakolas, E. Milutinović, D. and Tsiotras, P., "The Markov-Dubins Problem in the Presence of a Stochastic Drift Field", *51st IEEE Conf. on Decision and Control*, Maui, Hawaii, pp. 130-135, December 2012.
16. Bakolas, E., "Spatial Partitioning for Distributed Agents Driven by a Line-of-Sight Navigation Law in a Spatiotemporal Drift Field," *American Control Conference*, Washington, DC, pp. 2509-2514, June, 2013.
17. Bakolas, E., "Optimal Partitioning for Task Assignment of Spatially Distributed Vehicles Based on Quadratic Performance Criteria", *American Control Conference*, Washington, DC, pp. 3206 - 3211, June, 2013.
18. Bakolas, E., "Evasion from a Group of Pursuers with Double Integrator Kinematics," *IEEE Conference on Decision and Control 2013*, Florence, Italy, pp. 1472-1477, December 2013.
19. Bakolas, E., "A Decentralized Spatial Partitioning Algorithm Based on the Minimum Control Effort Metric", *American Control Conference 2014*, Portland, OR, pp. 5264-5269, June 2014.
20. Bakolas, E., "Minimum Time Control for a Newtonian Particle in a Spatiotemporal Flow Field," *American Control Conference 2014*, Portland, OR, pp. 2342-2347, June 2014.
21. Bakolas, E. "Partitioning Algorithms for Homogeneous Multi-Vehicle Systems with Planar Rigid Body Dynamics," *IEEE Conference on Decision and Control*, Los Angeles, CA, pp. 5393-5398, December 2014.
22. A. L'Aflitto, Haddad, W. M., and Bakolas, E., "State Feedback Control for Optimal Partial Asymptotic Stabilization", *IEEE Conference on Decision and Control 2014*, Los Angeles, CA, pp. 6647-6652, December 2014.
23. D. Pylorof and Bakolas, E., "Tracking a Maneuvering Target with an Underactuated UAV in the SE(3) Space, " *AIAA Guidance, Navigation, and Control Conference*, AIAA Science and Technology Forum 2015, Kissimmee, Florida, 2015(number of pages: 12, best paper in session).
24. Selvakumar, J. and Bakolas, E., "Optimal Guidance of the Isotropic Rocket in a Partially Uncertain Flow," *European Control Conference*, Linz, Austria, pp. 3328-3333, July 2015.
25. D. Pylorof and Bakolas, E., "Nonlinear Control under Polytopic Input Constraints with Application to the Attitude Control Problem," *American Control Conference*, 2015, Chicago, IL, pp. 4455-4460, July 2015.
26. D. Pylorof, Bakolas, E., and Russel, R., "A Nonlinear Controller for Low Thrust Stabilization of Spacecraft on CRTBP Orbits," *26th AASIAA Space Flight Mechanics Meeting*, Napa, CA, 2016 (number of pages: 17).
27. D. Pylorof and Bakolas, E., "Analysis and Synthesis of Nonlinear Controllers for Input Constrained Systems using Semidefinite Programming Optimization," *American Control Conference*, Boston, pp. 6959-6964, July 2016 (student travel award).
28. J. Selvakumar and Bakolas, E., "Evasion from a Group of Pursuers with a Prescribed Target Set for the Evader," *American Control Conference*, Boston, pp. 155-160, July 2016 (best paper in session & student travel award).
29. E. Bakolas, "Optimal Covariance Control for Stochastic Linear Systems Subject to Integral Quadratic State Constraints," *American Control Conference*, Boston, pp. 7231 - 7236, July 2016.
30. E. Bakolas, "Optimal Covariance Control for Discrete-Time Stochastic Linear Systems Subject to Constraints," *IEEE Conference on Decision and Control*, Las Vegas, pp. 1153 - 1158, December 2016.
31. J. Selvakumar and E. Bakolas, "A pursuit-evasion game in the orbital plane," *27th AASIAA Space Flight Mechanics Meeting*, San Antonio, TX, pp. 1093-1104, February 2017.

32. D. Pylorof, Bettadpur, S. and Bakolas, E., "On the Robust Attitude Regulation for Earth Observation Spacecraft Under Hybrid Actuation," *27th AASIAA Space Flight Mechanics Meeting*. San Antonio, TX, February 2017 (number of pages: 18).
33. E. Bakolas, "Covariance Control for Discrete-Time Stochastic Linear Systems with Incomplete State Information," *American Control Conference*, Seattle, pp. 432–437, May 2017.
34. J. Selvakumar and E. Bakolas, "Evasion with Terminal Constraints from a Group of Pursuers Using a Matrix Game Formulation," *American Control Conference*, Seattle, pp. 1604-1609, May 2017.
35. D. Pylorof and Bakolas, E., "Robust Control of Input Constrained Nonlinear Systems Subject to Unknown Bounded Disturbances Based on Convex Optimization," *American Control Conference*, Seattle, pp. 3700 - 3705, May 2017 (student travel award).
36. E. Bakolas, "A Solution to the Minimum L1-Norm Controllability Problem for Discrete-Time Linear Systems via Iteratively Reweighted Least Squares," *American Control Conference*, Milwaukee, pp. 1244-1249, June 2018.
37. D. Pylorof and Bakolas, E., "Robust Distributed and Decentralized Control of Large-Scale Nonlinear Systems with Input Constraints based on SOS Optimization," *American Control Conference*, Milwaukee, pp. 4658-4663, June 2018.
38. E. Bakolas, "Finite-Horizon Separation-Based Covariance Control for Discrete-Time Stochastic Linear Systems," *IEEE Conference on Decision and Control*, Miami, FL, December 2018, pp. 3299 -3304.
39. D. Pylorof and Bakolas, E., "Stabilization of Input Constrained Nonlinear Systems with Imperfect State Feedback Using Sum-of-Squares Programming," *IEEE Conference on Decision and Control*, Miami, FL, December 2018, pp. 1847-1852.
40. Lee, J, Bakolas, E and Sentis, L., "Trajectory Generation for Robotic Systems with Contact Force Constraints," *American Control Conference*, Philadelphia, PA, pp. 671-678, July 2019.
41. D. Pylorof, E. Bakolas, K. Chan, "Design of Robust Lyapunov-based Observers for Nonlinear Systems with Sum-of-Squares Programming," *IEEE Conference on Decision and Control*, Nice, France, December 2019 (dual IEEE L-CSS submission). DOI: [10.1109/LCSYS.2019.2925511](https://doi.org/10.1109/LCSYS.2019.2925511)
42. Tsolovikos, A., Suryanarayanan, S., Bakolas, E. and Goldstein, D. B., "Toward Model-Based Control of Near-Wall Turbulent Coherent Structures," *AIAA Scitech 2020 Forum*, January 2020. DOI: <https://doi.org/10.2514/6.2020-1319>
43. Bakolas, E. and Tsolovikos, A. "Greedy Finite-Horizon Covariance Steering for Discrete-Time Stochastic Nonlinear Systems Based on the Unscented Transform," *2020 American Control Conference (ACC)*, Denver, CO, USA, pp. 3595-3600, June 2020. DOI: [10.23919/ACC45564.2020.9147505](https://doi.org/10.23919/ACC45564.2020.9147505)
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77. *Akshit Jariwala*, John Wylie, *Alexandros Tsolovikos*, Saikishan Suryanarayanan, Efstathios Bakolas, Michael Amitay and David Goldstein, "Generation of Hairpin Vortices Using a Hybrid Cyber-Physical Data Assimilation Approach, AIAA SciTech, January, 2024. **DOI:** <https://doi.org/10.2514/6.2024-0931>
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79. *V. Zinage*, R. Chandra, and E. Bakolas, "Disturbance Observer-based Robust Integral Control Barrier Functions for Nonlinear Systems with High Relative Degree," American Control Conference 2024, Toronto, Canada, July 2024. **DOI:** [10.23919/ACC60939.2024.10644578](https://doi.org/10.23919/ACC60939.2024.10644578)
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83. *A. Burtsev*, *A. Jariwala*, E. Bakolas and D. Goldstein, "Data-Driven Flow Control for Finite Wings at Low Reynolds Numbers, AIAA Aviation Forum 2024, Las Vegas, NV, June 2024. **DOI:** <https://doi.org/10.2514/6.2024-3690>
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87. *James, A., & Bakolas, E.* (2025). Goal-Oriented Multi-Modal Motion Prediction for Multi-Agent Systems. In AIAA SCITECH 2025 Forum, January 2025. **DOI:** <https://doi.org/10.2514/6.2025-0351>
88. *Lee, Y., Khalil, A., Bakolas, E., & Gremillion, G.* (2025). A Two-Phase Algorithm for Joint Task Assignment and Coordination in Hierarchical Multi-Vehicle Systems. In AIAA SCITECH 2025 Forum, January 2025. **DOI:** <https://doi.org/10.2514/6.2025-2283>
89. *Zinage, V., Zinage, S., Bettadpur, S., & Bakolas, E.* (2025). Leveraging gated recurrent units for iterative online precise attitude control for geodetic missions. In AIAA SCITECH 2025 Forum, January 2025. **DOI:** <https://doi.org/10.2514/6.2025-1701>
90. *Zinage, V., Jha, A., Chandra, R., & Bakolas, E.* (2024). Decentralized Safe and Scalable Multi-Agent Control under Limited Actuation. ICRA 2025, May 2025
91. *Zinage, V., Khalil, A., & Bakolas, E.* (2024). Transformer MPC: Accelerating Model Predictive Control via Transformers. ICRA 2025, May 2025

92. *Khalil, A., Lee, Y., Bakolas, E., Gremillion, G.M.* Coupled Task Assignment for Hierarchical Multi-Agent Systems in Disaster Response Missions: A Nested Hungarian Approach, AIAA SCITECH 2026 Forum, 2747, January 2026
93. *Khalil, A., Safwat, M., Bakolas, E.* (2026) “Ensemble Kalman Inversion for Constrained Nonlinear MPC: An ADMM-Splitting Approach,”
94. American Control Conference, May 2026 Bakolas, E. (2026) “Multi-Model Covariance Steering for Continuous-Time Stochastic Linear Systems,” American Control Conference, May 2026
95. N Käfer, *A Khalil, E Huynh, E Bakolas, D Fridovich-Keil,* (2026) “Game-Theoretic Autonomous Driving: A Graphs of Convex Sets Approach”, WAFR 2026
96. *Gil Buitrago, A. and Bakolas, E.* (2026) “Shape Control of Deformable Structures Using Iterative Multi-Modal Density Steering“, MECC 2026 (note: accepted)

PH.D. SUPERVISIONS COMPLETED:

1. Jhanani Selvakumar, Doctor of Philosophy, Thesis title: “Multi-objective path-planning for autonomous agents using dynamic game theory,” Graduation date: 8/20/18 (now at Boston Dynamics, CA)
2. Dimitrios Pylorof-Parsinas, Doctor of Philosophy, Title: “Optimization-based feedback control of nonlinear systems subject to input constraints”, Graduation date:12/20/18 (now at Idaho National Laboratory, ID)
3. Andrei Marchidan, Doctor of Philosophy, Thesis title: “Collision avoidance techniques and optimal synthesis for motion planning applications”, Graduation date:05/31/2019 (now at Amazon, Seattle, WA)
4. Alaa Abdulghafoor, Doctor of Philosophy, Thesis Title: “Distributed Coverage Control, Motion Coordination and Path Planning for Multi-Agent Networks and Multi-Target Tracking in Complex and Dynamic Environments”, Graduation date:05/31/2022 (now at Ali & Sons Oilfield Supplies & Services Company LLC)
5. Jaemin Lee, Doctor of Philosophy ASE ME (co-advised with Dr. Sentis), Title: “Optimization-based feedback control of nonlinear systems subject to input constraints”, Graduation date:05/31/2022 (now at Assistant Professor at NC State University, NC)
6. Alexandros Tsolovikos, Doctor of Philosophy ASE (co-advised with Dr. Goldstein), Thesis title: “Data-Driven Modeling and Control of High-Dimensional Systems with Application to Turbulent Flows,” graduated in Summer 2023 (now an Engineer at Applied Intuition, San Francisco, CA)
7. Isin Balci, Doctor of Philosophy ASE, advised since June 2020, graduated in Summer 2024, Thesis title:” Convex Optimization for Covariance Steering and Density Control,” (now an Engineer at Applied Intuition, San Francisco, CA)
8. Vrushabh Zinage, Doctor of Philosophy ASE, advised since January 2021 (co-advised with Dr. Tanaka; graduated in spring 2025, Thesis Title: “Learning, Planning, and Control for Agile and Safe Robotic Systems” (now a post-doctoral fellow at Caltech)
9. Yoonjae Lee, Doctor of Philosophy ASE, advised since August 2020, graduated in summer 2025, Thesis Title “Cooperative Target Defense against Intelligent Adversaries: A Game-Theoretic Approach” (now a post-doctoral fellow at Cornell University)

M.S. SUPERVISIONS COMPLETED:

1. Dimitrios Pylorof completed MS in ASE in August 2015 (course-work only, GRA)
2. Andrei Marchidan completed MS in ASE in August 2015 (course-work only, GRA)
1. Alaa Abdulghafoor completed MS in ASE in December 2020 (MS report, GRA)
2. Martin Braquet completed MS in ASE in May 2022 (MS report, GRA)
3. Drew McNeely completed MS in ASE in May 2023 (MS Thesis)
4. Steven Patrick completed MS in ASE in December 2023 (course-work only, GRA)
5. Jedd S. Wilder, MS in ASE, advised since August 2023 (course-work only)
6. Austin C. Case, MS in ASE, advised since August 2024 (course-work only)

POST-DOCTORAL FELLOWS COMPLETED:

Anton Burtsev, post-doctoral fellow advised since May 2025 (co-advised with Dr. Goldstein)

PH.D. IN PROGRESS:

1. Anegi James, Doctor of Philosophy ASE, advised since August 2020
2. Akshit Jariwala, Doctor of Philosophy ASE, advised since August 2021 (co-advised with Dr. Goldstein)
3. Ahmed Khalil, Doctor of Philosophy ASE, advised since August 2023
4. Antonio Gil, Doctor of Philosophy ASE, advised since August 2024

M.S. IN PROGRESS:

1. Nathan Scharfe, MS in ASE, advised since June 2026

POST-DOCTORAL FELLOWS IN PROGRESS:

1. Chandan Kumar, post-doctoral fellow advised since July 2026 (co-advised with Dr. Goldstein)

OTHER RESEARCH SUPERVISION:

1. Timothy Baba, Moncrief Undergraduate Summer Intern ICES/ODEN (Summer 2015)
2. Sterling Maynard, Undergraduate Researcher ASE (Fall 2015, Spring 2016)
3. Erik Ballesteros, Undergraduate Researcher ASE (Summer, Fall 2017)
4. Jorge Gutierrez, Undergraduate Researcher ASE (Summer 2017-Spring 2018)
5. Thomas Nguyen, Undergraduate Researcher ASE (Summer 2018, Fall 2018)
6. Akshat Venkataraman, Undergraduate Researcher ASE (Spring 2019)
7. Aaron Wong, Undergraduate Researcher ME (Spring 2020-Summer 2021)
8. Jacob Johnston, Undergraduate Researcher ASE (Summer 2021-Spring 2022)
9. Conor Donihoo, Undergraduate Researcher ASE (Summer 2022)
10. Pedro Gracia, Undergraduate Researcher ASE (Summer 2023)
11. Antonio Gil, Undergraduate Researcher ASE (Spring 2022, Fall 2023-Spring 2024)
12. Benjamin Dunstone, Undergraduate Researcher ASE (Summer 2024)
13. Sabrina Skolnick, Undergraduate Researcher ASE (Spring 2025-Spring 2026)
14. Akhil Gharpurey, Undergraduate Researcher ME (Spring 2026-present)