

Mohammadreza Kamaldar

Curriculum Vitae

Assistant Professor
Mechanical, Aerospace & Biomedical Engineering
College of Engineering
University of South Alabama

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EDUCATION

2013{2018	Ph.D. in Mechanical Engineering University of Kentucky, Lexington, KY
2009{2011	M.S.E. in Mechanical Engineering University of Tehran, Tehran, Iran
2005{2009	B.S.E. in Mechanical Engineering Shiraz University, Shiraz, Iran

PROFESSIONAL EXPERIENCE

2025{Present	Assistant Professor, Mechanical, Aerospace & Biomedical Engineering Dept. University of South Alabama
2022{2024	Postdoctoral Research Fellow, Aerospace Engineering Dept. University of Michigan
2020{2022	Postdoctoral Research Scholar, Mechanical & Aerospace Engineering Dept. University of Kentucky
2019{2020	Postdoctoral Research Fellow, Aerospace Engineering Dept. University of Michigan
2013{2018	Graduate Assistant, Mechanical & Aerospace Engineering Dept. University of Kentucky
2012{2013	Technical Instructor, Mechatronics Engineering Dept. University of Tehran
2011{2012	Research Engineer, Center for Surface-E ect Craft Shiraz University
2009{2011	Graduate Research & Teaching Assistant, Mechanical Engineering Dept. University of Tehran

RESEARCH EXPERIENCE

2023{2024	Sampled-Data Global Stabilization with Control Constraints University of Michigan <u>Role</u> : Post-doctoral Research Fellow <u>Sponsor</u> : NSF
2022-2023	Adaptive & Nonlinear Model Predictive Control University of Michigan <u>Role</u> : Post-doctoral Research Fellow <u>Sponsor</u> : ONR
2020{2022	Almost Global Convergence in Discrete-Time Systems University of Kentucky <u>Role</u> : Post-doctoral Research Scholar <u>Sponsor</u> : AFOSR
2019{2020	Adaptive Digital PID Control for Nonlinear Systems University of Michigan <u>Role</u> : Post-doctoral Research Fellow <u>Sponsor</u> : AFOSR & ONR
2019{2020	Output-Feedback Control of Chain of Integrators with Arbitrary Zeros and Asymmetric Input Saturation University of Michigan <u>Role</u> : Post-doctoral Research Fellow <u>Sponsor</u> : AFOSR & ONR
2014{2018	Adaptive Sinusoidal Disturbance Rejection for Helicopter Vibration Reduction University of Kentucky <u>Role</u> : Graduate Research Assistant <u>Sponsor</u> : Lord Corp.

TEACHING EXPERIENCE

2025{Present	Instructor	Mechanical, Aerospace & Biomedical Engineering Dept. University of South Alabama <u>Courses:</u> Fluid Mecahnics (Spring 2025)
2013{2017	TeachingAssistant	Mechanical & Aerospace Engineering Dept. University of Kentucky <u>Courses:</u> Control Systems (Fall 2013, Spring 2014, Fall 2015) Dynamic Systems (Spring 2016, Fall 2106, Spring 2017) Mechanics of Materials (Spring 2015) Statics (Fall 2014)
2012{2013	TeachingAssistant	Mechatronics Engineering Dept. University of Tehran <u>Courses:</u> Advanced Robotics (Spring 2012, Spring 2013) Mechatronics I (Spring 2012, Spring 2013) Mechatronics II (Spring 2012, Fall 2012)
2011{2013	Instructor	Mechatronics Engineering Dept. University of Tehran <u>Courses:</u> Mechatronics I,II Lab (Spring 2012, Fall 2012, Spring 2013)
2010{2011	Instructor	Mechanical Engineering Dept. University of Tehran <u>Courses:</u> Mechatronics I Lab (Fall 2010, Fall 2011)

TEACHING INTERESTS

- Dynamic Systems & Control
- Flight Mechanics & Control
- Intermediate Dynamics j Spacecraft Dynamics & Control
- Robotics j Mechatronics
- Fluid Mechanics j

ARCHIVAL PEER-REVIEWED JOURNAL PUBLICATIONS

12. H. J. Kim, M. Kamaldar, and D. S. Bernstein, [Initial undershoot in discrete-time input-output Hammerstein systems](#), *IEEE Open Journal of Control Systems*, 2025. DOI: 10.1016/j.ymssp.2024.111711
11. M. Kamaldar, N. Mohseni, S. A. U. Islam, and D. S. Bernstein, [A numerical and experimental investigation of predictive cost adaptive control for noise and vibration suppression](#), *Mechanical Systems and Signal Processing*, 2024. DOI: 10.1016/j.ymssp.2024.111711
10. M. Kamaldar, S. A. U. Islam, J. B. ~~et al~~ , etems

12. M. Kamaldar and I. Kolmanovsky,

TECHNICAL TALKS

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