Brian S. Bingham

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Education

2003	Massachusetts Institute Technology, Mechanical Engineering. Committee: Warren Seering, David Mindell and Dana Yoerger. Dissertation: *Precision Autonomous Underwater Navigation.*	Ph.D.
1998	Massachusetts Institute Technology, Mechanical Engineering. Thesis: *Structural-acoustic design and control of an integrally actuated composite panel.*	M.S.
1996	Missouri University of Science and Technology, Mechanical Engineering.	B.S.

Research Interests

Robotics and autonomous vehicles; Navigation and control; Reinforcement learning

Academic Appointments

2019–present	Professor, Department of Mechanical and Aerospace Engineering, Naval Postgraduate School.
2022–2024	Department Chair, Mechanical and Aerospace Engineering, Naval Postgraduate School.
2015–2019	Associate Professor, Department of Mechanical and Aerospace Engineering, Naval Postgraduate School.
2013–2015	Associate Professor, Department of Mechanical Engineering, University of Hawaii at Manoa.
2009–2013	Assistant Professor, Department of Mechanical Engineering, University of Hawaii at Manoa.
2005–2008	Assistant Professor, Franklin W. Olin College of Engineering
2004–2005	Postdoctoral Investigator, Woods Hole Oceanographic Institution.

Professional Experience

2023–present	Co-Founder, Honu Robotics Inc.
2016–2022	Dive Supervisor and ROV Lead, Global Foundation for Ocean Exploration.
2005–present	Visiting Scientist, Woods Hole Oceanographic Institution.

Updated: 2025

Honors and Awards

2011-2022	Northrop Grumman Excellence in Teaching Award.
2010 and 2013	Hi Chang Chai Excellence in Teaching Award, University of Hawaii.
2010	National Academy of Engineering as one of nation's top 53 most innovative young engineering educators.

Publications

Bingham, B., Aguero, C., McCarrin, M., Klamo, J., & Choi, W.-S. (2024). "Mobile robot simulation for unmanned surface vehicles in ocean environments." *Naval Engineers Journal*, *136*(3), 219–235.

Choi, W., Bingham, B., & Camilli, R. (2022). "Faster-than-real-time Hybrid Autonomous Underwater Glider Simulation for Ocean Mapping." *Journal of the Korean Society of Marine Environment and Safety*, *28*, 441–450.

Choi, W.-S., Olson, D. R., Davis, D., Zhang, M., Racson, A., Bingham, B., McCarrin, M., Vogt, C., & Herman, J. (2021). "Physics-based modelling and simulation of multibeam echosounder perception for autonomous underwater manipulation." *Frontiers in Robotics and AI*, *8*.

Bingham, B., Mindell, D., Wilcox, T., & Bowen, A. (2006). "Integrating precision relative positioning into JASON/MEDEA ROV operations." *Marine Technology Society (MTS) Journal*, *40*(1), 87–96.

Submitted Papers

Coauthor, F. M., & Last, F. M. (2018). "Paper four."

Last, F. M. (2017). "Paper two." *Under revise and resubmit.*

Working Papers

Last, F. M. (2018). "Paper three."

Presentations

Peer-reviewed conference presentations

Last, F. M. (2016). "Paper two."

Last, F. M. (2014). "Paper one."

Invited presentations

Zhang, M. M., Choi, W.-S., Herman, J., Davis, D., Vogt, C., McCarrin, M., Vijay, Y., Dutia, D., Lew, W., Peters, S., & Bingham, B. (2022). "DAVE aquatic virtual environment: Toward a general underwater robotics simulator." *2022 IEEE/OES Autonomous Underwater Vehicles Symposium (AUV)*, 1–8.

Last, F. M. (2014). "Paper one."

Teaching

Instructor
University | Department

YYYY COURSE NUM: *Course name*

One sentence description (optional)

Website/Course materials: github.com/btskinner/tex_cv

Teaching Assistant
University | Department

YYYY COURSE NUM: *Course name*

Instructor: Instructor of record

Awards, Fellowships, and Honors

YYYY	Honor	
YYYY - YYYY	Fellowship	$ AMOUNT

Professional Memberships

Organization 1 • Organization 2 • Organization 3 • Organization 4 • Organization 5