Boyang Zhang

CONTACT Information 121 Hudson Hall, Durham NC 27708, United States Duke Scholar

+1 919-660-5200 boyang.zhang@duke.edu Personal Website

EDUCATION

Ph.D., Civil and Environmental Engineering

Aug 2023 (expected)

Duke University, Durham, United States

- Dissertation topic: Synthesis of a novel nonlinear feedback control via constraints
- Committee:

Henri Gavin (Chair), Jerome Lynch, Earl Dowell, Michael Zavlanos, Dennis Bernstein.

- Highlights:
 - Preparing Future Faculty Fellow (22 fellows out of all Duke Ph.D. students/postdocs)
 - Bass TA Fellow (four fellows out of all Duke Ph.D. candidates)
 - Summer Research Fellow (two fellows out of all third year and beyond Duke Ph.D. students in seven Physical Sciences and Engineering departments)
 - Certificate in College Teaching
 - Certificate in Teaching Writing

M.S., Electrical and Computer Engineering

Aug 2023 (expected)

Duke University, Durham, United States

- Research project: Decentralized control of nonlinear multiagent navigation systems.
- Committee:

Vahid Tarokh (Chair), Tyler Bletsch, Ebsan Abadi.

M.Eng., Ocean and Naval Architectural Engineering

Oct 2017

Memorial University (MUN), St. John's, Canada

- Thesis: Improving time-domain prediction of vortex-induced vibration for marine risers
- Committee:

Wei Qiu (Chair), David Molyneux, James Yang.

- Highlights:
 - GPA: 4.0/4.0
 - \bullet Fellow of the School of Graduate Studies (awarded to less than 10% of a degree program's final-year students.)

B.Eng., Ocean and Naval Engineering

July 2013

Tianjin University (TJU), Tianjin, China

RESEARCH EXPERIENCE

Research Assistant

June 2018 – Present

Duke University, Durham, United States

- Developed centralized and decentralized frameworks for the navigation and control of hundreds of double integrators based on extensions of Gauss's principle of least constraint (GPLC).
- Resolved the deadlocks naturally among double integrators by a constraint reformulation.
- Developed computationally simple, centralized and decentralized control methods for single/multiple nonholonomic wheeled mobile robots based on extensions of GPLC.

- Developed computationally simple, centralized and decentralized control methods for single/multiple nonlinear quadrotors based on generalizations of GPLC.
- Derived the input-output stability of nonlinear dynamical systems based on conic sectors.

Research Assistant

June 2014 – June 2017

Memorial University, St. John's, Canada

- Derived and compared time-domain models to predict vortex-induced vibration (VIV).
- Re-developed an in-house finite-element program in Fortran for mooring line analysis.
- Designed a model test of two cylinders under VIV interaction at high Reynolds numbers.

Undergraduate Research Student

 $Mar\ 2012 - June\ 2013$

Tianjin University, Tianjin, China

- Analyzed extreme loading scenarios for an offshore jack-up platform in ANSYS.
- Assisted in coupling the hull heave-moonpool fluid motion for a SPAR platform.
- Conducted ship resistance/propulsion tests at Tianjin University Towing Tank.

Refereed Journal **PUBLICATIONS**

- 1. Zhang, B. and Gavin, H.P. Gauss's Principle with Inequality Constraints for Multiagent Navigation and Control. IEEE Transactions on Automatic Control, vol. 67, no. 2, pp. 810-823, 2022, doi: 10.1109/TAC.2021.3059677. (2021 impact factor: 6.549; Google Scholar Metrics ranking in Automation & Control Theory: 1/20)
- 2. Zhang, B. and Gavin, H.P. Decentralized Control of Multiagent Navigation Systems. IEEE/CAA Journal of Automatica Sinica (JAS), vol. 9, no. 5, pp. 922-925, 2022, doi: 10.1109/JAS.2022.105569.
 - (2021 impact factor: 7.847; Scopus ranking in Control and Optimization: 1/118)
- 3. Zhang, B. and Qiu, W. Improving Time-Domain Prediction of Vortex-Induced Vibration for Marine Risers. Marine Systems & Ocean Technology, vol. 13, no. 1, pp. 13-25, 2018, doi: 10.1007/s40868-017-0041-3.

PEER-Reviewed Conference Publications

- 1. Zhang, B. and Gavin, H.P. Computationally Efficient Tracking Control of Differential Drive Wheeled Mobile Robots. Proceedings of the 2023 American Control Conference (ACC), accepted.
- 2. Zhang, B. and Gavin, H.P. Decentralized Unified Position-Attitude Control of Nonlinear UAVs. Proceedings of the 61st IEEE Conference on Decision and Control (CDC), pp. 5214-5219, 2022, doi: 10.1109/CDC51059.2022.9992624.
- 3. Zhang, B. and Gavin, H.P. Unified Position-Attitude Control of A Nonlinear Quadrotor Swarm. Proceedings of the 2022 American Control Conference (ACC), pp. 4030-4035, 2022, doi: 10.23919/ACC53348.2022.9867205.
- 4. Zhang, B. and Gavin, H.P. Natural Deadlock Resolution for Multi-agent Multi-swarm Navigation. Proceedings of the 60th IEEE Conference on Decision and Control (CDC), pp. 5958-5963, 2021, doi: 10.1109/CDC45484.2021.9683102.
- 5. Zhang, B. and Gavin, H.P. Unified Position and Attitude Control of a Fully Nonlinear Quadrotor. Proceedings of the 2021 American Control Conference (ACC), pp. 1064-1069, 2021, doi: 10.23919/ACC50511.2021.9483358.

ACADEMIC PRESENTATIONS	• 2023 Southeast Control Conference, Gainesville, FL. Best Presentation Award	Feb 2023
	• 61st IEEE Conference on Decision and Control, Cancún, Mexico.	$\mathrm{Dec}\ 2022$
	• 2022 American Control Conference, Atlanta, GA.	June 2022
	• IEEE/CAA JAS Symposium Series 1 (virtual).	Feb 2022
	• 60th IEEE Conference on Decision and Control, Austin, TX.	Dec 2021
	• 2021 Southeast Control Conference, Blacksburg, VA.	Oct 2021
	• 2021 American Control Conference, New Orleans, LA.	May 2021
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TEACHING & Co-instructor of Uncertainty, Design, and Optimization (CEE 201) S PROFESSIONAL Duke University, Durham, United States

EXPERIENCE

- Gave four guest lectures and weekly 75-minute recitations to 21 undergraduate students.
- Assisted in preparing lecture materials and homework questions/solutions.
- Held weekly office hours.

Instructor of Robust Control (ME 592)

Spring 2018

Duke University, Durham, United States

- Developed lecture notes.
- Gave lectures to seven people, including five undergraduate/graduate students and two research professors.

Teaching Assistant

Aug 2021 – Present

Duke University, Durham, United States

- Gave three tutorial labs to 51 students.
- Held weekly office hours.
- Graded the assignments and lab reports.

Mechanics of Solids (EGR 201)

Fall 2021

Undergraduate course, 54 students.

Risk and Resilience in Engineering (CEE 690.06)

Spring 2022

Graduate course, 15 students.

Teaching Assistant

Jan 2014 - Dec 2015

Memorial University, St. John's, Canada

- Gave tutorial lectures and labs to 344 students.
- Generated the solutions to assignments and exams.
- Graded the assignments and lab reports.

Mechanical Vibrations (EN 6933)

Fall 2014/2015

Undergraduate course, 106/105 students.

Fluid Mechanics (EN 4961)

Spring 2015

Undergraduate course, 91 students.

Dynamics and Maneuvering of Ocean Vehicles (EN 7035)

Spring 2014

Undergraduate course, 20 students.

Marine Propulsion (EN 5020)

Winter 2014

Undergraduate course, 22 students.

Technology Intern

Jan 2015 – May 2015

American Bureau of Shipping, Houston, United States

- Researched the rules and regulations from seven classification societies: ABS, DNV-GL, LR, BV, NK, CCS, and KR.
- Upgraded the ABS notation comparison database with 371 modifications.

## NWARDS, & HONORS Best Presentation Award	Grants,	International/National/Provincial Level:	
Honors		,	Feb 2023
Society for Risk Analysis - Research Triangle Regional Organization 2022 CDC Student Travel Award and Workshop Support (\$825) Sept 2022 61st IEEE Conference on Decision and Control (CDC) 2022 ACC Student Travel Grant (\$445) Apr 2022 2022 American Control Conference (ACC) Selected oral presenter Jan 2023/Oct 2021 Southeast Control Conference 60th IEEE CDC Student Travel Support (\$125) Sept 2021 60th IEEE Conference on Decision and Control (CDC) 2021 ACC Student Registration Grant (\$100) Apr 2021 Short-Term Innovative Research Grant (\$60,000) Sept 2019 U.S. Army Research Office Mitacs Accelerate Award (\$10,000) Jan 2015 Mitacs Canada NSERC CREATE Offshore Technology Research Fellowship (\$42,000) Sept 2013/14 Natural Sciences and Engineering Research Council of Canada (NSERC) Excellent Volunteer Sept 2012 World Economic Forum (Tianjin Summer Davos) University Level: Duke Graduate School Conference Travel Award (\$700) Nov 2022 Preparing Future Faculty Fellowship July 2022 Duke Graduate School Conference Travel Award (\$525) May 2022 Duke Graduate School Conference Travel Award (\$525) Jan 2022 Duke Graduate School Conference Travel Award (\$525) Jan 2022 Duke Graduate School Conference Travel Award (\$525) Jan 2022 Duke Graduate School Conference Travel Award (\$525) Jan 2022 Duke Graduate School Conference Travel Award (\$525) Summer Research Fellowship (\$29,770) Dec 2021 Selected Auburn Preparing Future Faculty Fellow (200 out of 800+) Sept 2021 Senol Utku Award with Highest Distinction (1st place) (\$350) Apr 2021		2023 Southeast Control Conference	
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			Apr 2021
• The only student participant & speaker at Duke Libraries fundraising event Apr 2019		• The only student participant & speaker at Duke Libraries fundraisis	ng event Apr 2019
• Fellow of the MUN School of Graduate Studies Nov 2017		• Fellow of the MUN School of Graduate Studies	Nov 2017
		- (/ /	$\mathrm{Aug}\ 2017$
		• McGill Engineering Doctoral Award (\$96,000)	Mar 2017
			May 2016
		·	Sept $2013/14$
			Dec 2011
• TJU Advanced Student in Volunteer Service Dec 2011		• TJU Advanced Student in Volunteer Service	Dec 2011
CERTIFICATIONS • Offshore Systems for Oil & Gas Production and Renewable Energy University of Maine, Orono, United States Mar 2016	CERTIFICATION	·	Mar 2016
		• Arctic/Subarctic Offshore Engineering	May 2015
• Fundamentals of Riser & Flexible Pipe Engineering May 2015		• Fundamentals of Riser & Flexible Pipe Engineering	May 2015
		• The Fundamentals of Project Management	May 2015
Memorial University, St. John's, Canada • Design and Analysis of Floating Platforms Oct 2014 John Halkyard Associates, Houston, United States		• Design and Analysis of Floating Platforms	Oct 2014

REVIEWERSHIP IEEE/CAA Journal of Automatica Sinica

IEEE Control Systems Letters

IEEE Conference on Decision and Control

American Control Conference

PROFESSIONAL Student Member of IEEE

SOCIETIES Student Member of IEEE Control Systems Society

Language:

• Proficient in English and Chinese (Simplified and Traditional).

Computer:

 \bullet LATEX, MATLAB, Fortran, Linux, SolidWorks, Gnuplot, AutoCAD, ANSYS.