Curriculum Vitae — Ge Lv, PhD

Current Position

Assistant Professor
Director, Assistive Robotics Laboratory
Departments of Mechanical Engineering and Bioengineering
Faculty Scholar, School of Health Research
College of Engineering, Computing & Applied Sciences
Clemson University
Clemson, SC 29634, USA
Phone: (864)656-7291
E-mail: glv@clemson.edu
Lab Web——Google Scholar——ORCID

Professional Appointments

Assistant Professor, Department of Mechanical Engineering — Jan 2020 - Present
School of Mechanical and Automotive Engineering
College of Engineering, Computing & Applied Sciences
Clemson University

Assistant Professor, Department of Bioengineering — Nov 2020 - Present
College of Engineering, Computing & Applied Sciences
Clemson University

Research Associate, Locomotor Control Systems Laboratory — Jun 2018 - Sep 2018
Erik Jonsson School of Engineering & Computer Science
University of Texas at Dallas

Education

Postdoctoral Fellow, Carnegie Mellon University — Oct 2018 - Dec 2019
Robotics Institute, School of Computer Science
Advisor: Christopher R. Atkeson, PhD

PhD, University of Texas at Dallas — May 2018
Department of Electrical Engineering
Dissertation: Energy Shaping Control of Powered Lower-Limb Exoskeletons for Assistance of Human Locomotion
Advisor: Robert D. Gregg, PhD

MS, Northeastern University, China — Jul 2013
Major: Control Theory & Control Engineering
College of Information Science & Technology
Advisor: Tianyou Chai, PhD

BS, Northeastern University, China — Jul 2011
Major: Automation
College of Information Science & Technology

Research Interests

Wearable Robots, Assistive Robots, Control Systems, Locomotion, Rehabilitation Engineering, Biomechanics

Honors & Awards

Rising Star of Mechanical Engineering, American Society of Mechanical Engineers	2025
Dean's Professor Award, CECAS, Clemson University	2024
ME Excellence Junior Faculty Award, Mechanical Engineering, Clemson University	2024
NSF CAREER Award, Directorate for Engineering, National Science Foundation	2024
Louis Beecherl, Jr. Graduate Fellowship, UT Dallas	2017
Best Student Paper Award, 54th IEEE Conference on Decision & Control	2015
Student Travel Support Award, IEEE Control Systems Society	2015

Betty and Gifford Johnson Endowment for Student Travel, UT Dallas 2015
Third Prize, National Graduate Mathematical Modeling Contest, China 2012

Mentee

Angelos Guan, Student Travel Grant, The 5th MECC Conference, IFAC 2025
Timothy Nguyen, CECAS Opportunity Research Grant, Clemson University 2023
James Rhoads, Carl Donner Nelson Jr., Memorial Award, Clemson University 2023
Gavin Platt, Undergraduate Research Grant, Clemson University 2023
Miao Yu, Student Travel Award, Human Factors Institute, Clemson University 2022

Research Funding

Awarded

1. "CAREER: A Task-Invariant Customization Framework for Lower-Limb Exoskeletons to Assist Volitional Human Motion", **Ge Lv** (PI), Foundational Research in Robotics, National Science Foundation, 2024 - 2029, $570,938.

2. "Collaborative Research: HCC: Small: Robot-Rooms: Giving Form to Domestic Activity, On the Go", **Ge Lv** (Sub-award transferred from the previous PI, Ian Walker, University of Wyoming), Human-Centered Computing, National Science Foundation, 2024 - 2026, $50,000.

3. "Faculty Development Award, South Carolina Translational Research Improving Musculoskeletal Health", Faculty Development Award, Phase I of the Center of Biomedical Research Excellence (COBRE), National Institutes of Health, **Ge Lv** (PI), 2021 - 2023, $20,000.

Pending

1. "Collaborative: FRR: Enhancing Long-Term Exoskeleton Comfort with an Active Kirigami-Based Interface", **Ge Lv** (PI), Suyi Li (PI, Virginia Polytechnic Institute and State University), National Science Foundation, $869,034 ($444,199 Clemson share), 2026, under review.

2. "R21: A Unified Exoskeleton Controller to Assist Balance and Reduce Walking Effort in People with Stroke", **Ge Lv** (PI), Jesse Dean (Co-I, Medical University of South Carolina), Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, $432,689 ($235,961 Clemson share), 2026, under review.

3. "Collaborative: Enhanced Multimodal Balance-Related Augmentation Control for Exoskeletons (EMBRACE)", **Ge Lv** (PI), Ayonga Hereid (PI, Ohio State University), Dynamics, Control and Systems Diagnostics, National Science Foundation, $751,737 ($372,445 Clemson share), 2026, under review.

4. "Collaborative: FRR: Exoskeleton for Enhancing Stability During Perturbed Multimodal Locomotion: Integrating Deep Learning and Model-Based Control", Inseung Kang (PI, Carnegie Mellon University), **Ge Lv** (PI), National Science Foundation, $893,097 ($367,525 Clemson share), 2026, under review.

Publications

Peer-Reviewed Journal Articles

1. **G. Lv** and R. Gregg, "Underactuated Potential Energy Shaping with Contact Constraints: Application to a Powered Knee-Ankle Orthosis", *IEEE Transactions on Control Systems Technology*, 26(1), pp. 181-193, 2018.

2. **G. Lv**, H. Zhu, and R. Gregg, "On the Design and Control of Highly Backdrivable Lower-Limb Exoskeletons: A Discussion of Past and Ongoing Work", *IEEE Control Systems Magazine*, Special Issue on Control Systems Issues for Assistive & Rehabilitation Robotics, **Cover Article**, 38(6), pp. 88-113, 2018.

3. M. Yeatman, **G. Lv**, and R. Gregg, "Decentralized Passivity-Based Control with a Generalized Energy Storage Function for Robust Biped Locomotion", *ASME Journal of Dynamic Systems, Measurement, & Control*, 141(10): 101007, 2019.

4. J. Lin, N. Divekar, **G. Lv**, R. Gregg, "Optimized Energetic Control for a Powered Knee-Ankle Exoskeleton", *IEEE Control Systems Letters*, 5(5), pp. 1711-1716, 2021.

5. **G. Lv**, J. Lin, and R. Gregg, "Trajectory-Free Control of Lower-Limb Exoskeletons Through Underactuated Total Energy Shaping", *IEEE Access*, vol. 9, pp. 96427-96443, 2021.

6. M. Stokes, J. Mohrmann, C. Frazelle, I. Walker, and **G. Lv**, "The Claw: An Avian-Inspired, Large Scale, Hybrid Rigid-Continuum Gripper", Special Issue of Intelligent Bionic Robots, **Cover Article**, *Robotics*, 13(3), 52, 2024.

7. M. Yu, Q. Lin, and **G. Lv**, "Safety Augmentation for Volitional Human Locomotion via Lower-Limb Exoskeletons: A Case Study on Balance Control", *IEEE Control Systems Letters*, 8(8), pp. 778-783, 2024.

8. Q. Zhang, X. Bao, Z. Guo, **G. Lv**, and M. Kim, "Assistance personalization/customization for human locomotion tasks by using wearable lower-limb robotic devices", *Frontiers in Robotics & AI*, vol. 11, 2024.

9. T. Parr, J. DesJardins, A. Hippensteal, T. Harvey, and **G. Lv**, "Transfemoral Prosthesis with Ambulatory Length-Actuation: Design and Preliminary Evaluation", *IEEE Access*, vol. 12, pp. 193416 - 193428, 2024.

10. T. Parr, **G. Lv**, A. Hippensteal, C. Pitts, J. Rhoads, O. Aguilar, J. DesJardins, "Case study evaluation of stability and mobility in a length-actuated transfemoral prosthesis", *Prosthetics & Orthotics International*, doi: 10.1097/PXR.0000000000000557, 2026.

11. M. Yu, J. Dean, and **G. Lv**, "Task-Agnostic Assistance via Centroidal Momentum Shaping: Preliminary Validations on a Hip Exoskeleton", *IEEE Robotics & Automation Letters*, Vol. 11, Issue. 8, pp. 9691 - 9698, 2026.

12. F. Zhang, J. Chen, J. Ahanda, H. Richter, **G. Lv**, B. Hu, and Q. Lin, "Unified Disturbance Aware Safe Kinematic Control for Closed-Architecture Robots", *Mechatronics* (Elsevier), Vol. 119, 103584, 2026.

13. N. Kumar, **G. Lv**, K. Green, and I. Walker, "Towards Human-Centered Intelligent Inhabitable Spaces: A Review", *Advanced Intelligent Systems*, e70538, doi: 10.1002/aisy.70538, 2026.

14. M. Yu, W. Bailey, N. Krishnna, and **G. Lv**, "Perturbation Rejection Control for Voluntary Human Motion via Lower-Limb Exoskeletons", *IEEE Transactions on Medical Robotics & Bionics*, under review, 2026.

15. N. Kumar, S. Lim, **G. Lv**, K. Green and I. Walker, "Advancing Smart and Adaptive Living Spaces Through Design and Development of Reconfigurable Multifunctional Robot Rooms", *Focused Section on IEEE/ASME Transactions on Mechatronics, Emerging Topics*, under review, 2026.

Peer-Reviewed Conference Proceedings

1. **G. Lv** and R. Gregg, "Orthotic Body-Weight Support through Underactuated Potential Energy Shaping with Contact Constraints", *IEEE Conference on Decision & Control*, Osaka, Japan, 2015. **Best Student Paper Award**.

2. **G. Lv**, H. Zhu, T. Elery, L. Li, and R. Gregg, "Experimental Implementation of Underactuated Potential Energy Shaping on a Powered Ankle-Foot Orthosis", *IEEE International Conference on Robotics & Automation*, Sweden, 2016.

3. H. Zhu, J. Doan, C. Stence, **G. Lv**, T. Elery, and R. Gregg, "Design and Validation of a Torque Dense, Highly Backdrivable Powered Knee-Ankle Orthosis", *IEEE International Conference on Robotics & Automation*, Singapore, 2017.

4. **G. Lv** and R. Gregg, "Towards Total Energy Shaping Control of Lower-Limb Exoskeletons", *American Control Conference*, Seattle, WA, 2017.

5. M. Yeatman, **G. Lv**, and R. Gregg, "Passivity-Based Control with a Generalized Energy Storage Function for Robust Bipedal Walking", *American Control Conference*, Milwaukee, WI, 2018.

6. J. Lin, **G. Lv**, and R. Gregg, "Contact-Invariant Total Energy Shaping Control for Powered Exoskeletons", *American Control Conference*, Philadelphia, PA, 2019.

7. J. Lin, N. Divekar, **G. Lv**, and R. Gregg, "Energy Shaping Control with Virtual Spring and Damper for Powered Exoskeletons", *IEEE Conference on Decision & Control*, Nice, France, 2019.

8. **G. Lv**, H. Xing, J. Lin, R. Gregg, and C. Atkeson, "A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion", *American Control Conference*, Denver, CO, 2020.

9. M. Yu and **G. Lv**, "Task-Invariant Centroidal Momentum Shaping Control for Lower-Limb Exoskeletons", *IEEE Conference on Decision & Control*, Cancún, Mexico, 2022.

10. S. Zheng and **G. Lv**, "A Two-Layer Human-in-the-Loop Optimization Framework for Customizing Lower-Limb Exoskeleton Assistance", *American Control Conference*, **Invited Session** on "Recent Advancement of Human Autonomy Interaction & Integration", San Diego, CA, 2023.

11. P. Malhotra, N. Kumar, C. Frazelle, I. Walker, and **G. Lv**, "Soft Robotics for Fall Mitigation: Preliminary Design and Evaluation of a Wearable System using Continuum Robots", *IEEE International Conference on Reconfigurable Mechanisms & Robots*, Chicago, Illinois, 2024.

12. F. Zhang, J. Chen, Y. Hu, Z. Gao, **G. Lv**, and Q. Lin, "Disturbance Rejection-Guarded Learning for Vibration Suppression of Two-Inertia Systems", *IEEE Conference on Automation Science & Engineering*, Puglia, Italy, 2024.

13. T. Driscoll, I. Walker, and **G. Lv**, "Augmented Human Inspired Phase Variable Using a Canonical Dynamical System", *IEEE International Conference on Robotics & Biomimetics*, Bangkok, Thailand, 2024.

14. J. Mohrmann, J. Schuver, M. Yu, I. Walker, and **G. Lv**, "Teleoperation of a Compliant Avian-Inspired Robot Claw with Continuum Digits", *IEEE International Conference on Automation Science & Engineering*, Los Angeles, CA, 2025.

15. A. Guan and **G. Lv**, "A PINN-Based Approach to Solving the Matching Condition for Energy Shaping Control in Bipedal Locomotion", *The 5th Modeling, Estimation & Control Conference*, Pittsburgh, PA, 2025.

16. N. Hale, M. Yu, R. Gurchiek, and **G. Lv**, "Whole-Body Angular Momentum Estimation Using Reduced-Order Models", *48th Annual International Conference of the IEEE Engineering in Medicine & Biology Society*, Toronto, Canada, 2026.

17. H. Lew, N. Hale, **G. Lv**, and D. Quintero, "Preliminary Validation of an Energetic Control Approach on a Novel Cable-Driven Upper-Limb Exoskeleton", *IEEE International Conference on Systems, Man, & Cybernetics*, Bellevue, WA, 2026.

18. G. Platt, I. Walker, and **G. Lv**, "Continuum-Legged Biped with a Kangaroo-Inspired Tail for Tripedal Locomotion: Preliminary Design and Validation", *IEEE International Conference on Cyborg & Bionic Systems*, Munich, Germany, 2026.

19. M. Yu, W. Bailey, N. Krishnan, and **G. Lv**, "Human-Centered Stability Augmentation Control for a Hip Exoskeleton Under Leaning and Slip Perturbations", *IEEE-RAS 25th International Conference on Humanoid Robots*, to appear, Santa Clara, CA, 2026.

20. A. Guan, J. Wu, and **G. Lv**, "Task-Agnostic Human-in-the-Loop Optimization of Fourier-Parameterized Control for Lower-Limb Exoskeletons", *IEEE International Conference on Robotics & Automation*, under review, Seoul, South Korea, 2026.

Conference Abstracts/Non-Peer Reviewed

1. C. Pitts, R. Parr, J. Rhoads, O. Aguilar, **G. Lv**, J. DesJardins, "Length-Actuated Transfemoral Prosthesis Increases Hip Flexion/Extension Symmetry for Users", 2023 Biomedical Engineering Society Annual Meeting, Seattle, WA, Oct 11 - 14, 2023.
2. C. Pitts, R. Parr, J. Rhoads, O. Aguilar, **G. Lv**, J. DesJardins, "Length-Actuated Transfemoral Prosthesis Increases Hip Flexion/Extension Symmetry for Users", Prisma Health Education and Research Institute Showcase, Columbia, SC, Oct 27, 2023.
3. T. Parr, A. Hippensteal, **G. Lv**, T. Harvey, S. Thomas, T. Driscoll, B. Lawhorn, J. DesJardins, "Development of a Novel Length-Actuated Transfemoral Prosthesis for Functional Symmetry", 48th Academy Annual Meeting & Scientific Symposium, Atlanta, GA, Mar 2-5, 2022.
4. T. Parr, A. Hippensteal, **G. Lv**, T. Harvey, B. Lawhorn, S. Thomas, T. Driscoll, J. DesJardins, "Development of a Length-Actuated Transfemoral Prosthesis Based on Dynamic Leg Length Modeling", Prisma Health Research Showcase, Greenville, SC, Oct 22, 2021.

Advising and Mentoring

PhD Students

- Tingrui (Angelos) Guan, MS, Mechanical Engineering, Aug 2024 - Present
- Jiawen Wu, MS, Mechanical Engineering, Aug 2026 - Present
- Xiaohang (Shawn) Ding, MS, Mechanical Engineering, Jan 2027 - Present

MS Students (Thesis-Track)

- Nicholas Hale, Mechanical Engineering, Sep 2025 - Present

Undergraduate Students

- Jonathan Harris, Mechanical Engineering, Aug 2026 - Present (Creative Inquiry)
- Colby Santarelli, Mechanical Engineering, Aug 2026 - Present (Creative Inquiry)
- Michael Anderson, Mechanical Engineering, Aug 2026 - Present (Creative Inquiry)
- Jules Slevensky, Mechanical Engineering, Aug 2026 - Present (Creative Inquiry)
- Vaibhav Ravibiruthoji, Mechanical Engineering, Jan 2026 - Present (Creative Inquiry)
- Clement Susanto, Mechanical Engineering, Jan 2026 - Present (Creative Inquiry)
- Harrison Curtis, Mechanical Engineering, Honors Program, Aug 2026 - Present
- Sierra Beerer, Mechanical Engineering, Honors Program, Aug 2026 - Present
- Julio Nino de Rivera Pimentel, Mechanical Engineering, Aug 2026 - Present

Research Staff

- Haosen Xing, MS, Robotics Institute, Carnegie Mellon University, May 2019 - Dec 2020

Graduate Student Thesis/Dissertation Committee

- Philip Silva, MS Student, Mechanical Engineering
- Ryan Mbagna Nanko, MS Student, Mechanical Engineering
- Asal Lotfi, MS Student, Mechanical Engineering
- Yuchen Yan, PhD Student, Automotive Engineering
- Nithesh Kumar, PhD Student, Electrical & Computer Engineering
- Sriram Krishnamoorthy, PhD Student, Mechanical Engineering
- Jacob Thompson, MS Student, Electrical & Computer Engineering

Students Graduated

1. PhD Students
    - Miao Yu (Committee Chair, advisor), PhD, Mechanical Engineering, May 2026
    - Therese Parr (Co-Committee Chair), PhD, Bioengineering, May 2023
2. MS Students
    - Nikhila Radha Krishnan (Thesis, Committee Chair), Mechanical Engineering, Jul 2026
    - Hamdan Sarvathullah (Thesis, Committee Chair), Mechanical Engineering, Feb 2026
    - Gavin Platt (Thesis, Committee Chair), Mechanical Engineering, Nov 2025
    - Timothy Driscoll (Thesis, Co-advisor), Computer Engineering, Jun 2023
    - Param Malhotra (Thesis, Committee Chair), Mechanical Engineering, Jul 2022
    - Yash Srivastava, Mechanical Engineering, Jan 2022
3. Undergraduate Students
    - Walker Bailey, Automotive Engineering, May 2025 - Dec 2025
    - Jack Carter, Creative Inquiry, Mechanical Engineering, Jan 2026 - May 2026
    - James Rhoads, Mechanical Engineering, Sep 2023 - May 2025
    - John Mohrmann, Electrical Engineering, Jan 2024 - Dec 2024
    - Jack Schuver, Mechanical Engineering, Sep 2024 - May 2025
    - Nick Hale, Mechanical Engineering, Jan 2025 - May 2025
    - Anh Doan, Creative Inquiry, Sep 2023 - May 2025
    - Thomas Holliday, Creative Inquiry, Jan 2024 - May 2025
    - Thomas Temple, Creative Inquiry, Sep 2024 - May 2025
    - Jules Slevensky, Mechanical Engineering, Sep 2024 - Dec 2024
    - Nick Daly, Mechanical Engineering, May 2024
    - Ryan Rutolo, Creative Inquiry, Sep 2023 - May 2024
    - Timothy Nguyen, Mechanical Engineering, Jan 2023 - Sep 2023
    - Charles Marmo, BS, Bioengineering, Creative Inquiry, Jan 2023 - May 2023
    - Kevin Dai, BS, Mechanical Engineering, Creative Inquiry, Jan 2023 - May 2023
    - Zachary Nemphos, Mechanical Engineering, Sep 2022 - Dec 2022
    - Hunter Meier, EUREKA!, Jun 2021 - Aug 2021
    - Hayden Cagle, EUREKA!, Jun 2021 - Aug 2021
    - Andrew O'Rourke, EUREKA!, Jun 2021 - Aug 2021
    - Brook Schmid, Mechanical Engineering, Apr 2021 - May 2022

Patents

Patent Applications

1. R. Gregg, **G. Lv**, and H. Zhu, "Torque Control Methods and Devices for Powered Orthosis", United States Patent, 11938050, 2024.
2. R. Gregg and **G. Lv**, "Total energy shaping control methods and devices for powered orthosis", United States Patent, 12144772, 2024.

Invited Presentations

Invited Seminars

1. Invited Speaker, workshop on "Human-Robot Interaction", NRI/FRR Principal Investigators Meeting, National Science Foundation, Alexandria, VA, Oct 2025.
2. Invited Speaker, workshop on "State of the Art in Exoskeleton Customization", IEEE International Conference on Robotics & Automation, Atlanta, GA, May 2025.
3. Distinguished Lecture, International Forum on Frontiers of Automation and Artificial Intelligence, Shenyang, China, 2020 - 2022.
4. Page Morton Hunter Distinguished Seminar Series, Bioengineering Department, Clemson University, SC, Nov 2020.
5. Departmental Seminar, Mechanical Engineering, Clemson University, SC, Jun 2019.
6. Departmental Seminar, Electrical & Computer Engineering and Mechanical Engineering, University of California, Riverside, CA, Feb 2019.
7. Departmental Seminar, Electrical & Computer Engineering, University of Kentucky, KY, Feb 2019.
8. Departmental Seminar, Mechanical & Civil Engineering, Florida Institute of Technology, FL, Nov 2018.
9. Bipedal Locomotion Group Seminar, Robotics Institute, Carnegie Mellon University, PA, Oct 2018.
10. Departmental Seminar, Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, IL, Jul 2018.
11. Departmental Seminar, Mechanical Engineering, Clemson University, SC, Apr 2018.

Media Coverage

Interviews

- *One Step at a Time*, Clemson World Magazine, Vol. 79, Num. 1, Winter 2025
- Interview, College of Engineering, Computing and Applied Sciences, https://www.youtube.com/watch?v=f7eOtTFhRDs, Clemson University, Jan 2025

Teaching Experience

Instructor

- Clemson University, Clemson, SC
  ME 3050: Modeling & Analysis of Dynamic Systems, Sp/Fa 2020 - Sp 2024
  ME 4020: Internship in Engineering Design, Sp 2022, Sp 2024
  ME 4030: Control & Integration of Multidomain Dynamic Systems, Sp/Fa 2025, 2026
  ME 8200: Modern Control Engineering, Sp 2023, 2025, 2026
  ME 8230: Control Systems Engineering, Fa 2024, 2026
- Carnegie Mellon University, Pittsburgh, PA
  MECH 24758: Engineering Optimization, Sp 2019

Teaching Assistant

- University of Texas at Dallas, Richardson, TX
  BMEN 6372: Engineering System Modeling & Simulation, Sp 2015
  Instructor: Robert D. Gregg, PhD
- State Key Laboratory of Synthetical Automation for Process Industries
  Northeastern University, China
  Undergraduate Control Systems Curriculum Design, Su 2012
  Instructor: Tianyou Chai, PhD

SERVICE

Scholarly Service

- Session Co-Chair, 54th IEEE Conference on Decision and Control, Osaka, Japan, 2015
- Member, Technical Committee of Manufacturing Automation & Robotic Control, IEEE Control Systems Society, 2017 - Present
- Member, Technical Committee on Robot Control, IEEE Robotics & Automation Society, 2024 - Present

Outreach Activity

- Faculty Instructor, Emerging Scholar Program, Clemson University, 2024
- Faculty Advisor, Clemson Baja Team, 2023 - Present
- Faculty Instructor, EUREKA!, Clemson University, 2021

Meeting Participant

- National Robotics Initiative/Foundational Research in Robotics Principal Investigators Meeting, Alexandria, VA, 2025
- National Robotics Initiative/Foundational Research in Robotics Principal Investigators Meeting, Baltimore, MD, 2024

Scholarly Review

- Grant Reviewer Panelist:
  National Science Foundation, 2024, 2025, 2026
  Congressionally Directed Medical Research Programs, Department of Defense, 2024, 2026
- Guest Editor:
  Frontiers in Robotics & AI, Aug 2022 - Present
- Associate Editor:
  IEEE International Conference on Rehabilitation Robotics, 2025
  IEEE/RSJ International Conference on Intelligent Robots & Systems, 2020 - 2025
  IEEE International Conference on Biomedical Robotics & Biomechatronics, 2020
- Journal Reviewer: IEEE Transactions on Human-Machine Systems, ASME Journal of Autonomous Vehicles & Systems, IEEE Transactions on Medical Robotics & Bionics, IEEE Transactions on Systems, Man & Cybernetics: Systems, Wearable Technologies, IEEE Transactions on Biomedical Engineering, IEEE Transactions on Cybernetics, IEEE Transactions on Human-Robot Interaction, IET Control Theory & Applications, IEEE Control Systems Letters (L-CSS), IEEE Transactions on Robotics, Autonomous Robots, IEEE Access, IEEE Robotics & Automation Letters, IEEE Control Systems Magazine, ASME Journal of Dynamic Systems, Measurement, & Control, IEEE Transactions on Control Systems Technology, International Journal of Robotics Research, Robotics & Autonomous Systems, Control Engineering Practice, Robotica, IEEE Transactions on Industrial Electronics, PLOS ONE, IEEE Transactions on Automation Science & Engineering, IEEE/ASME Transactions on Mechatronics, Journal of NeuroEngineering & Rehabilitation, IEEE Transactions on Neural Systems & Rehabilitation Engineering (TNSRE), ASME Journal of Medical Devices, Mechatronics (Elsevier)
- Conference Reviewer: IEEE International Conference on Automation Science & Engineering (CASE), ASME Dynamic Systems & Control Conference (DSCC), IEEE Conference on Decision & Control (CDC), IEEE International Conference on Rehabilitation Robotics (ICORR), IEEE/RSJ International Conference on Intelligent Robots & Systems (IROS), IEEE International Conference on Robotics & Automation (ICRA), IEEE Engineering in Medicine & Biology Conference, American Control Conference (ACC), Modeling, Estimation & Control Conference (MECC), IEEE-RAS International Conference on Humanoid Robots, International Conference on Ubiquitous Robots

Professional Memberships	**Member**	Institute of Electrical and Electronics Engineers (IEEE)
	Member	IEEE Control Systems Society (CSS)
	Member	IEEE Robotics & Automation Society (RAS)
	Member	Institute of Engaged Aging, Clemson University
	Member	School of Health Research, Clemson University
	Member	Human Factors Institute, Clemson University

Training and Certifications

NIH Responsible Conduct of Research (RCR) Training, UT Dallas, 2017.

Human Subjects Protection Course, Clemson University, 2025.

This CV was updated on November 4, 2026