

Board # (Day 1: 5:00-7:00pm, 04/29)	Presenter	PI	Affiliation	Poster Title	Award Number	
1	Robert Gregg	Robert Gregg	University of Michigan	NRI: INT: Collaborative Research: An Open-Source Framework for Continuous Torque Control of Intuitive Robotic Prosthetic Legs	NSF-2024237	
2	Xiaobo Tan	Xiaobo Tan	Michigan State University	Collaborative Research: Unsupervised Active Learning for Aquatic Robot Perception and Control	NSF-2237576, 2237577	
3	Abhisesh Silwal	George Kantor	Carnegie Mellon University	Collaborative Research: NRI: Balance Pruning of Dormant Grapevines with Autonomous Robots	USDA NIFA: 2021-67021-35974	
4	William Grover	Konstantinos Karydis	University of California, Riverside	NRI: Integrated Soft Wearable Robotics Technology to Assist Arm Movement of Infants with Physical Impairments	NSF-2133084	
5	Thomas Howard	Thomas Howard	University of Rochester	CAREER: Inferring Minimal but Sufficient Environment Models from Natural Language and Semantic Perception for Collaborative Robots	NSF-2144804	
6	Albert Yu	Raymond Mooney	UT Austin	Natural Language Can Help Bridge the Sim2Real Gap	NSF-1925082	
7	He Bai	He Bai	Oklahoma State University	NRI INT: Safe Wind-Aware Navigation for Collaborative Autonomous Aircraft in Low Altitude Airspace	NSF-1925147	
8	Axel Krieger	Axel Krieger	Johns Hopkins University	CAREER: Advancing Autonomy for Soft Tissue Robotic Surgery and Interventions	NSF-2144348	
9	Geoffrey Hollinger	Geoffrey Hollinger	Oregon State University	Adaptable and Robust Multi-Robot Decision Making through Generalized Sequential Stochastic Task Assignment	NSF-2103817	
10	Subhrajit Bhattachar	Subhrajit Bhattacharya	Lehigh University	CAREER: Topological Abstraction for Robot Path Planning	NSF-2144246	
11	Kaveh Akbari Hamed	Kaveh Akbari Hamed	Virginia Tech	NRI: INT: Collaborative Research: A Robotic Platform for Body-Scale Human Physical Interaction Simulation in Embodied Virtual Reality	NSF-2024772	
12	Kevin Chen	Kevin Chen	Massachusetts Institute of Technology	Hybrid Locomotion at the Insect-scale –combined flying and jumping for enhanced agility and efficiency	NSF-2202477, 2236708	
13	Gregory Stein	Gregory J. Stein	George Mason University	Fast and Reliable Online Retraining and Adaptation for Robot Planning Despite Missing World Knowledge	NSF-2232733	
14	Zhaozheng Yin	Zhaozheng Yin	Stony Brook University	NRI: INT: COLLAB: Manufacturing USA: Intelligent Human-Robot Collaboration for Smart Factory	NSF-1954548, 1830479, 1830383, 1830295	
15	Victoria Webster-Wo	Victoria Webster-Wood	Carnegie Mellon University	Collaborative Research: FRR: Adaptive mechanics, learning and intelligent control improve soft robotic grasping	NSF-2138923, 2138873	
16	Elizabeth Hsiao-Wec	Elizabeth Hsiao-Wecksler	University of Illinois at Urbana-Champaign	NRI: INT: MiaPURE (Modular, Interactive and Adaptive Personalized Unique Rolling Experience	NSF-2024905	
17	Zeynep Temel	Zeynep Temel	Carnegie Mellon University	NRI: INT: Dexterous Manipulation using Delta Arrays	NSF-2024794	
18	Amit K. Sanyal	Mrinal Kumar	Syracuse University	NRI: Integration of Autonomous UAS in Wildland Fire Management	NSF-2132798, 2132799	
19	Melanie Moses	Melanie Moses	University of New Mexico	The VolCAN Project: Estimating CO2 emissions and plume boundaries with Sketch	NSF-2024520	
20	Stefano Carpin	Stefano Carpin	University of California, Merced	NRI: INT: COLLAB: Mobile Robotic Lab for In-Situ Sampling and Measurement	USDA 2021-67022-33452, -33453	
21	Justin Yim	Justin Yim	University of Illinois Urbana-Champaign	NRI: A Novel Framework for the Hardware & Control Co-Design of Dynamic Humanoid Robot with Electric Motors	NSF-2220924	
22	Corina Barbalata	Corina Barbalata	Louisiana State University	NRI:FND: Collaborative Mobile Manufacturing in Uncertain Scenarios	NSF-2024795	
23	Roberto Tron	Roberto Tron	Boston University	Unified Vision-Based Motion Estimation and Control for Complex Robots	NSF-2212051	
24	Tapomayukh Bhattac	Tapomayukh Bhattacharjee	Cornell University	Collaborative Research: NRI: Robot-Assisted Feeding: Towards Efficient, Safe, and Personalized Caregiving Robots	NSF-2132846	
25	Bo Cheng	Bo Cheng	The Pennsylvania State University	Omnidirectional Perching on Dynamic Surfaces: Emergence of Robust Behaviors from Joint Learning of Embodied and Motor Control	NSF-2230320, 2230321	
26	Naomi Fitter	Naomi Fitter	Oregon State University	NRI: FND: Assistive Child-Robot Interventions for Infants with Motor Disabilities	NSF-2024950	
27	Monroe Kennedy	Monroe Kennedy	Stanford University	Visual Tactile Neural Fields for Active Digital Twin Generation	NSF-2220867, 2220866, 2220868	
28	Yi Guo	Yi Guo	Stevens Institute of Technology	Aging In Place Through Enhanced Mobility and Social Connectedness: An Integrated Robot and Wearable Sensor Approach	NSF-1838799, 1838725	
29	Jonathan Realmuto	Jonathan Realmuto	University of California, Riverside	NRI: Adaptive wearable robots for movement assistance via bio-inspired sensorimotor integration	NSF-2221315	
30	Marc Killpack	Marc Killpack	Brigham Young University	NRI: FND: Human-Robot Co-Manipulation with Large-scale Soft Pneumatic Robots	NSF-2024792	
31	Calin Belta	Calin Belta	University of Maryland	NRI: FND: A Formal Methods Approach to Safe, Composable, and Distributed Reinforcement Learning for co-Robots	NSF-2024606	
32	Wenzhen Yuan	Chen Feng (NYU) & Wenzhen Y	University of Illinois Urbana-Champaign	NRI: FND: DeepSoRo: High-dimensional Proprioceptive and Tactile Sensing and Modeling for Soft Grippers	NSF-2024882	
33	Hunter Gilbert	Hunter Gilbert	Louisiana State University	NRI/Collaborative Research: Robust Design and Reliable Autonomy for Transforming Modular Hybrid Rigid Soft Robots	NSF-2133019, 2132994	
34	Tao Shen	Tao Shen	Kent State University	Exploration of the Design, Dynamics and Control of Self- Decoupled, Cable-Driven Serial Robots	NSF-2138903	
35	Brendan Englot	Tomonari Furukawa	Stevens Institute of Technology	Ocean-Powered Robots for Autonomous Offshore Aquaculture	USDA-NIFA 2021-67021-35975, -35976, -35977	
36	Laurel Riek	Laurel Riek	University of California, San Diego	TAILORED: Training for Independent Living through Observant Robots and Design	NSF-1915734	
37	Harry Asada	Harry Asada	MIT	NRI: Techniques for Robust Fall Prediction for Robotic Injury Prevention Devices	NSF-2133072	
38	Harry Asada	Harry Asada	MIT	NRI: Enhancing Elderly Mobility: A Sturdy, Two-Body Robot for Handlebar Placement in Any Location	NSF-2133072	
39	Elaine Short	Elaine Short	Tufts University	NRI: Mutually Assistive Robotics	NSF-2132887	
40	Bing Ouyang	Bing Ouyang	Florida Atlantic University	NRI: INT: Hybrid Aerial/Underwater RoboticSystem (HAUCS) for Scalable, Adaptable Maintenance of Aquaculture Fish Farms	USDA 2019-67022-29204	
41	Yichen Zhai	Michael Tolley	University of California San Diego	Monolithic Printing of Soft Robots with Embodied Control	NSF-2331917	
42	Jose Pons	Jose Pons	Shirley Ryan AbilityLab	NRI: INT: Co-Robot Controllers for Human-Like Physical Interaction and Improved Motor Learning	NSF-2024488	
43	Jake Abbott	Jake Abbott	University of Utah	Magnetic Cogging Parallel-Elastic Actuators for Energy-Efficient Robotic Legs	NSF-2147765	
44	Jake Abbott	Jake Abbott	University of Utah	Dexterous Magnetic Manipulation on Non-magnetic Objects with Stationary Electromagnetic Dipole-field Sources	NSF-2149585	
45	Abhisesh Silwal	Abhisesh Silwal	Carnegie Mellon University	NRI: INT: COLLAB: High Throughput Multi-Robot Weed Management for Specialty Crops	USDA-NIFA-PENW-2019-04780	
46	Satyandra Gupta	SK Gupta	University of Southern California	NRI: FND: Human-Guided Robot Teams for Manipulating Large Flexible Sheets in Manufacturing Applications	NSF-1925084	*
47	Minghui Zheng	Minghui Zheng	Texas A&M University	CAREER: Facilitating Autonomy of Robots Through Learning-Based Control	NSF-2046481	
48	Zhi Jane Li	Zhi Jane Li	Worcester Polytechnic Institute	NRI: INT: Transparent and Intuitive Teleoperation Interfaces for the Future Nursing Robots and Workers	NSF-2024689	
49	Aaron Young	Aaron Young	Georgia Institute of Technology	A new strategy for task-agnostic control of robotic exoskeletons by estimating underlying biological effort using deep learning	NSF-2233164	
50	Stefanos Nikolaidis	Stefanos Nikolaidis	University of Southern California	CAREER: Enhancing the Robustness of Human-Robot Interactions via Automatic Scenario Generation	NSF-2145077	
51	Dylan Losey	Dylan Losey	Virginia Tech	Unifying Rigid and Soft Grippers for Assistive Eating	NSF-2205241	
52	Dan Negrut	Karen Liu	University of Wisconsin-Madison	Collaborative Research: Differentiable and Expressive Simulators for Designing AI-enabled Robots	NSF-2153855	
53	Ye Zhao	Ye Zhao	Georgia Institute of Technology	Maneuvering over Deformable Terrain: Long-horizon Task and Motion Planning of Bipedal Locomotion via Contact Sensing and Terrain	NSF-2328254	
54	Ye Zhao	Ye Zhao	Georgia Institute of Technology	NRI: FND: Robust and Scalable Planning for Agile and Collaborative Robot Teammates in Complex Environments	NSF-1924978	
55	Frank Sup	Frank Sup	University of Massachusetts Amherst	NRI: FND: Natural Power Transmission through Unconstrained Fluids for Robotic Manipulation	NSF-2024409	
56	Yunjun Xu	Yunjun Xu	University of Central Florida	NRI: INT: COLLAB: Distributed co-Robots for Strawberry Harvesting	NSF-1924622, 1924640	
57	Kevin Turner	Kevin Turner	University of Pennsylvania	NRI: INT: COLLAB: Soft Active Contact Pads with Tunable Stiffness and Adhesion for Customizable Robotic Grasping	NSF-1830475, 2006430	

58	Junaed Sattar	Junaed Sattar	The University of Minnesota, Twin Cities	NRI : Enhancing Autonomous Underwater Robot Perception for Aquatic Species Management	NSF-2220956	
59	Yan Gu	Yan Gu	Purdue University	CAREER: A Hybrid Filtering and Robust Control Framework for Legged Robot Locomotion on Dynamic Rigid Surfaces	NSF-2046562	
60	Jie Yin, Helen Huang	Jie Yin	North Carolina State University	Collaborative Research: NRI: Smart Skins for Robotic Prosthetic hand	NSF-2221479	
61	Joshua Smith	Nadya Peek	University of Washington	NRI:FND: Multi-Manipulator Extensible Robotic Platforms	NSF-2024435	
62	Shuran Song	Shuran Song	Stanford University	Hierarchical Representation Learning for Robot Assistants	NSF-2132519	
63	Kris Hauser	Kris Hauser	University of Illinois, Urbana-Champaign	NRI: FND: Immersive whole-body teleoperation of wheeled humanoid robots for dynamic mobile manipulation	NSF-2024775	
64	Brittany Duncan	Brittany Duncan	University of Nebraska-Lincoln	NRI: Collaborative Research: Adaptive multi-Robot Configurable Teams Investigating Changing Ecosystems	NSF-2221648 , 2221649	
65	Laura Blumenschein	Laura Blumenschein	Purdue University	Increasing Capabilities of Heterogeneous Robot Teams through Mutually Beneficial Physical Interactions	NSF-2308653	
66	Chen Feng	Chen Feng	New York University	CAREER: Robust and Collaborative Perception and Navigation for Construction Robots	NSF-2238968	
67	Kiju Lee	Kiju Lee	Texas A&M University	CASS: Configurable, Adaptive, and Scalable Swarm of Aerial and Ground Robots for Collaborative Smart Agriculture	USDA-NIFA 2021-67021-35959	
68	Nikolaus Correll	Christoffer Heckman	CU Boulder	Restorebot: Towards an Autonomous Robotics Platform for Degraded Rangeland Restoration	USDA-2021-67021-33450	
69	Roy Dong	Katherine Driggs-Campbell	UIUC	Increasing the Level of Autonomy for Agricultural Robots:Effective Interaction and Programming Paradigms	USDA-NIFA-2021-67021-33449	
70	Robert Platt	Robert Platt	Northeastern University	FRR: Symmetric Policy Learning for Robotic Manipulation	NSF-2312171	
71	Philip Dames	Philip Dames	Temple University	Visual Tactile Neural Fields for Active Digital Twin Generation	NSF-2220866	
72	Philip Dames	Philip Dames	Temple University	CAREER: Formalizing the Concept of Teamwork in Heterogeneous Multi-Robot Systems	NSF-2143312	
73	Stavros Vougioukas	Stavros Vougioukas	University of California, Davis	NRI: INT: COLLAB: Tree Fruit Harvesting with Arrays of Vision-Guided Linear Robot Arms	NIFA-1925385	
74	Ioannis Rekleitis	Ioannis Rekleitis	University of South Carolina	NRI:INT: Cooperative Underwater Structure Inspection Mapping	NSF-2024741	
75	Michael Rubenstein	Michael Rubenstein	Northwestern University	NRI: FND: Flying Swarm for Safe Human Interaction in Unstructured Environments	NSF-2024615	
76	Sebastian Scherer	Sebastian Scherer	Carnegie Mellon University	Multi-Person Motion Tracking in Crowd	NSF-2024173	
77	David Saldaña	David Saldaña	Lehigh University	AerialHitches: Forming and Controlling Hitches for Fully Autonomous Transportation Using Aerial Robots with Cables	NSF-2322840	
78	Vishesh Vikas	Vishesh Vikas	University of Alabama	AgLegLab: Wet-soil sowing and plant-soil health monitoring using mobile legged robot with continuum manipulators	USDA-1031264	
79	Carl Vondrick	Carl Vondrick	Columbia University	NRI: FND: Learning Visual Dynamics from Interaction	NSF-1925147	
80	Robert F. Shepherd	Robert F. Shepherd	Cornell University	Soft Robot Digging in Real Soil	USDA-NIFA-2021-67021-33843	
A-#: Aspiring PI Posters						
A-1	Harish Ravichandar		Georgia Tech	Frugal Learning of Reliable Dexterous Manipulation Skills		
A-2	Siyi Xu		University Illinois at Urbana-Champaign	Sensing, Actuation, and Control of Soft Fluid-driven Robots by Liquid-elastomer Composite Sensors and Dielectric Elastomer Actuators		
A-3	Kaushik Jayaram		University of Colorado Boulder	Towards Insect Scale Shape-shifting Legged Robots		
A-4	Patricia Alves-Oliveira		University of Michigan	ROBOTS FOR HEALTH		
A-5	Ming Luo		Washington State University	Design and Fabrication of Active Fiber Reinforced Elastomeric Enclosures (AFREEs)		
A-6	Zonghe Chua		Case Western Reserve University	Intelligent Human-Centered High Performance Telerobots		
A-7	Nakul Gopalan		Arizona State University	Interactive and Continual Robot Learning with Language.		
A-8	Zhao Han		University of South Florida	Mitigating Effects of Wrong Referring Form Predictions by Confusion Detection		
A-9	Tan Chen		Michigan Technological University	Legged Locomotion Across All Terrain		
A-10	Yunus Alapan		University of Wisconsin - Madison	Bioinspired Microrobotic Systems for Interfacing with Cells and Tissues		
A-11	Inseung Kang		Carnegie Mellon University	Towards Rapid Deployment of a Generalizable Exoskeleton Control Framework Across Diverse User Populations and Locomotor Tasks		
A-12	Jung Yun Bae		Michigan Technological University	Dynamic Coordination of Collaborative Multiple Heterogeneous Robotic Systems		
A-13	Guanya Shi		Carnegie Mellon University	Safe, Adaptive, and Efficient Learning-based Control for Humanoid Robots in Dynamic Environments		
A-14	HYUNG JIN YOON		Tennessee Technological University	Data Exploration Strategy using Adversarial Machine Learning for Computer Vision Assisted Manufacturing Processes		
A-15	Chuangchuang Sun		Mississippi State University	Robot learning and control for few-shot online adaptation		
A-16	Meghan Huber		UMass Amherst	Towards Personalized Gait Rehabilitation with Novel Adjustable Surface Stiffness Treadmill and Footwear		
A-17	George Kontoudis		Colorado School of Mines	Decentralized Informative Path Planning with Gaussian Processes		
A-18	Pan Zhao		University of Alabama	Certified Neural Control and Adaptation for Resilient Autonomy		
A-19	Farrell Helbling		Cornell University	High speed interfacial flight of an insect-scale robot: agile locomotion on the water surface		
A-20	Zhenyu Gan		Syracuse University	Enhancing Fall Mitigation in Legged Robots with Soft Inflatable Manipulators and Smart Footwear		
A-21	Kuan Fang		Cornell University	Open-Vocabulary Robotic Manipulation through Mark-Based Visual Prompting		
A-22	Daniel Drew		University of Utah	Atmospheric Ion Thrusters for Micro Air Vehicles		
A-23	Eric Ewing		Brown University	Robots As A Medium: Creating Art with Teams of Robots		