

Leonardo Bobadilla

bobadilla@cs.fiu.edu

Education

Ph.D. University of Illinois at Urbana-Champaign, Computer Science, 2013

M.Sc. National University of Colombia, Statistics, 2008

B.E. National University of Colombia, Computer Engineering, 2005

Work Experience

Full-Time Academic Experience

- 8/2019-Present. Associate Professor in the School of Computing and Information Sciences.
- 8/2013-8/2019. Assistant Professor in the School of Computing and Information Sciences. Employment Record at FIU

Additional Activities

Graduate Student Research Assistant, University of Illinois, Urbana, Champaign, January 2008, January 2013

Scholarly Publications and Creative Activities

Article

- Alam, T., Al, R., Bobadilla, L., Alsabban, W. H., Smith, R. N., & Karimodini, A. (2021). Towards Energy-Aware Feedback Planning for Long-Range Autonomous Underwater Vehicles. *Frontiers in Robotics and AI*, 8, 7.
- Zanlongo, S. A., Dirksmeier, P., Long, P., Padir, T., & Bobadilla, L. (2021). Scheduling and Path-Planning for Operator Oversight of Multiple Robots. *Robotics*, 10, 57.
- Al, R., Alam, T., M, R. G., Bobadilla, L., & Smith, R. N. (2021). Long-Term Autonomy for AUVs Operating Under Uncertainties in Dynamic Marine Environments. *IEEE Robotics and Automation Letters*, submitted, submitted.
- Alam, T., & Bobadilla, L. (2020). Multi-Robot Coverage and Persistent Monitoring in Sensing-Constrained Environments. *Robotics*, 9, 47.
- Alam, T., Reis, G. M., Bobadilla, L., & Smith, R. N. (2020). A Data-Driven Deployment and Planning Approach for Underactuated Vehicles in Marine Environments. *IEEE Journal of Oceanic Engineering*.

- Fitzpatrick, M., Reis, G., Anderson, J., Bobadilla, L., Alsabban, W., & Smith, R. (2020). Development of Environmental Niche Models for Use in Underwater Vehicle Navigation. *IET Cyber-Systems and Robotics*.
- Zanlongo, S., Wilson, A., Sookoor., T., & Bobadilla, L. (2018). Planning, Scheduling, and Deploying for Computational Ferrying. *International Journal of Next-Generation Computing*.
- Carmenate, T., Rahman, M. M., Bobadilla, L., Leante, D., & Mostafavi., A. (2018). Modeling and Analyzing Occupant Behaviors in Building Energy Analysis Using a State Space Approach and Non-Invasive Sensing. *International Journal of Next-Generation Computing*, under review.
- Inyim, P., Batouli, M., Reyes, M., Carmenate, T., Bobadilla, L., & Mostafavi, A. (2018). A Smartphone Application for Personalized and Multi-Method Interventions toward Energy Saving in Buildings. *Sustainability*, 10(6), under review.
- Alam, T., Bobadilla, L., & Shell, D. A. (2018). Space-efficient filters for mobile robot localization from discrete limit cycles. *IEEE Robotics and Automation Letters*, 3, 257–264.
- Alam, T., Rahman, M. ., Carrillo, P., Bobadilla, L., & Rapp., B. (2018). Stochastic Multi-Robot Patrolling with Limited Visibility. *Journal of Intelligent & Robotic Systems*.
- Rahman, M., Carmenate, T., Bobadilla, L., Zanlongo, S., & Mostafavi, A. (2016). An Automated Methodology for Worker Path Generation and Safety Assessment in Construction Projects. *IEEE Transactions on Automation Science and Engineering*, PP(99), 1 – 13.
- Carmenate, T., Inyim, P., Pachekar, N., Chauhan, G., Bobadilla, L., Batouli, M., & Mostafavi, A. (2016). Modeling Occupant-Building-Appliance Interaction for Energy Waste Analysis. *Procedia Engineering*, 145, 42–49.
- Bobadilla, L., Tovar, B., Cohen, F., Czarnowski, J., & LaValle, S. M. (2014). Combinatorial filters: Sensor beams, obstacles, and possible paths. *ACM Transactions on Sensor Networks*.

Proceeding

- Al, R., Alam, T., Mondello, J., Johnson, J., & Bobadilla, L. (2021). Multi-Robot Information Gathering Subject to Resource Constraints. Presented at the IEEE International Symposium on Robot and Human Interactive Communication.
- Curran, W., Rojas, C., Bobadilla, L., & Shell, D. (2021). Oblivious sensor fusion via secure multi-party combinatorial filter evaluation (p. submitted). Presented at the IEEE Conference on Decision and Control.
- Alam, T., Campaneria, A., Silva, M., Bobadilla, L., & Weaver, G. A. (2020). Coastal Infrastructure Monitoring through Heterogeneous Autonomous Vehicles. Presented at the 2020 Fourth IEEE International Conference on Robotic Computing (IRC), IEEE.

- Alam, T., Gandy, L., Bobadilla, L., & Smith, R. N. (2020). Synergistic AUV Navigation through Deployed Surface Buoys. Presented at the 2020 Fourth IEEE International Conference on Robotic Computing (IRC), IEEE.
- Bogosian, B., Bobadilla, L., Jr., M. A., Elias, A., Perez, G., Alhaffar, H., & Vassigh, S. (2020). Towards an Immersive Robotics Training for the Future of Architecture, Engineering, and Construction Workforce. Presented at the EDUNINE2020, IEEE.
- Alsayegh, M., Dutta, A., Vanegas, P., & Bobadilla, L. (2020). Lightweight Multi-robot Communication Protocols for Information Synchronization. Presented at the IEEE/RSJ International Conference on Intelligent Robots and Systems, IEEE.
- Wang, B., Bobadilla, L., & Rathinam, S. (2020). Connecting soldiers with relay robots in challenging environments (Vol. 11413). Presented at the Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications II, International Society for Optics and Photonics.
- Bobadilla, L., Shell, D. A., & Smith, R. N. (2019). Navigation and Localization via Wave Interference Patterns: An approach inspired by Marshallese Stick Charts. Presented at the OCEANS 2019 MTS/IEEE SEATTLE, IEEE.
- Torres, A., Reis, G., Absten, J., Briceno, H. O., Bobadilla, L., & Smith, R. N. (2019). Correlating Water Quality and Profile Data in the Florida Keys. Presented at the OCEANS 2019 MTS/IEEE SEATTLE, IEEE.
- Abodo, F., Berthaume, A., Zitzow-Childs, S., & Bobadilla, L. (2019). Strengthening the Case for a Bayesian Approach to Car-following Model Calibration and Validation using Probabilistic Programming. Presented at the IEEE Intelligent Transportation Systems Conference (ITSC), IEEE.
- Orioke, O. S., Alam, T., Joseph, Q., Alsabban, W. H., Bobadilla, L., & Smith, R. N. (2019). Feedback Motion Planning for Long-Range Autonomous Underwater Vehicles. Presented at the IEEE OCEANS, IEEE.
- Sierra, A. B., Alam, T., Reis, G., Nino, L., Bobadilla, L., & Smith, R. (2019). Toward Simultaneous Localization and Mapping in Aquatic Dynamic Environments. Presented at the IEEE OCEANS, IEEE.
- Bayuelo, A., Alam, T., Bobadilla, L., Nino, F., & Smith, R. N. (2019). Computing Feedback Plans from Dynamical System Composition. Presented at the IEEE 15th International Conference on Automation Science and Engineering (CASE).
- Li, L. i., Bayuelo, A., Bobadilla, L., Alam, T., & Shell, D. A. (2019). Coordinated multi-robot planning while preserving individual privacy. Presented at the Proceedings IEEE International Conference on Robotics & Automation, IEEE.
- Zanlongo, S. A., Bobadilla, L., McDaniel, D., & Tan, Y. T. (2019). Development of Informative Path Planning for Inspection of the Hanford Tank Farm. Presented at the Proceedings IEEE International Conference on Robotics & Automation, IEEE.

- Reis, G., Alam, T., Bobadilla, L., & Smith, R. N. (2019). Feedback-Based Informative AUV Planning from Kriging Errors. Presented at the OES Autonomous Underwater Vehicle Symposium, IEEE.
- Alam, T., Reis, G. M., Bobadilla, L., & Smith, R. N. (2018). An Underactuated Vehicle Localization Method in Marine Environments. Presented at the OCEANS'18 MTS/IEEE Charleston, IEEE.
- Reis, G. M., Leon, H., Alam, T., Anderson, J., Bobadilla, L., & Smith, R. N. (2018). A Whitening-based Tracking Algorithm for Autonomous Underwater Vehicles. Presented at the OCEANS'18 MTS/IEEE Kobe/Techno-Ocean, IEEE.
- Zanlongo, S., Abodo, F., Long, P., Padir, T., & Bobadilla, L. (2018). Multi-robot Scheduling and Path-Planning for Non-overlapping Operator Attention. Presented at the 2018 Second IEEE International Conference on Robotic Computing (IRC).
- Alam, T., Reis, G. M., Bobadilla, L., & Smith, R. N. (2018). A Data-Driven Deployment Approach for Persistent Monitoring in Aquatic Environments. Presented at the 2018 Second IEEE International Conference on Robotic Computing (IRC), IEEE.
- Rahman, M. M., Bobadilla, L., Abodo, F., & Rapp, B. (2017). Relay vehicle formations for optimizing communication quality in robot networks. Presented at the Intelligent Robots and Systems (IROS), 2017 IEEE/RSJ International Conference on, IEEE.
- Alam, T., Rahman, M. M., Bobadilla, L., & Rapp, B. (2017). Multi-vehicle patrolling with limited visibility and communication constraints. Presented at the Military Communications Conference (MILCOM), MILCOM 2017-2017 IEEE, IEEE.
- Reis, G. M., Fitzpatrick, M., Anderson, J., Bobadilla, L., & Smith, R. N. (2017). Increasing Persistent Navigation Capabilities for Underwater Vehicles with Augmented Terrain-Based Navigation. Presented at the MTS/IEEE Oceans.
- Alam, T., Bobadilla, L., & Shell, D. A. (2017). Minimalist Robot Navigation and Coverage using a Dynamical System Approach. Presented at the Robotic Computing (IRC), IEEE International Conference on, IEEE.
- Zanlongo, S. A., Rahman, M., Abodo, F., & Bobadilla, L. (2017). Multi-robot Planning for Non-overlapping Operator Attention Allocation. Presented at the Robotic Computing (IRC), IEEE International Conference on, IEEE.
- Reis, G. M., Fitzpatrick, M., Anderson, J., Bobadilla, L., & Smith, R. N. (2017). Augmented Terrain-Based Navigation to Enable Persistent Autonomy for Underwater Vehicles. Presented at the Robotic Computing (IRC), IEEE International Conference on, IEEE.
- Rahman, M. M., Bobadilla, L., & Rapp, B. (2016). Sampling-based planning algorithms for multi-objective missions. Presented at the Automation Science and Engineering (CASE), 2016 IEEE International Conference on, IEEE.
- Zanlongo, S. A., Wilson, A. C., Bobadilla, L., & Sookoor, T. (2016). Scheduling and path planning for computational ferrying. Presented at the Military Communications Conference, MILCOM 2016-2016 IEEE, IEEE.

- Rahman, M. M., Bobadilla, L., & Rapp, B. (2016). Establishing line-of-sight communication via autonomous relay vehicles. Presented at the Military Communications Conference, MILCOM 2016-2016 IEEE, IEEE.
- Li, A. Q., Rekleitis, I., Manjanna, S., Kakodkar, N., Hansen, J., Dudek, G., ... Smith, R. N. (2016). Data Correlation and Comparison from Multiple Sensors Over a Coral Reef with a Team of Heterogeneous Aquatic Robots. Presented at the International Symposium on Experimental Robotics, Springer, Cham.
- Iyim, P., Carmentate, T., Hidalgo, D., Presa, M., Leante, D., Bobadilla, L., & Mostafavi, A. (2016). Smart Applications for the Integrated Sensing, Simulation, and Feedback of Occupant Behaviors to Enable Personalized Interventions for Energy Saving in Buildings. Construction Research Congress 2016.
- Carmentate, T., Rahman, M. M., Leante, D., Bobadilla, L., & Mostafavi, A. (2015). Modeling and Analyzing Occupant Behaviors in Building Energy Analysis Using an Information Space Approach. IEEE International Conference on Automation Science and Engineering.
- Carmentate, T., Leante, D., Zanlongo, S., Bobadilla, L., & Mostafavi, A. (2015). A Non-Invasive Sensing System for Decoding Occupancy Behaviors Affecting Building Energy Performance. Computing in Civil Engineering 2015.
- Rahman, M. M., Carmentate, T., Zanlongo, S., Bobadilla, L., & Mostafavi, A. (2015). Discrete-Event and Motion Planning Methodology for Automated Safety Assessment in Construction Projects. IEEE International Conference on Robotics and Automation.
- Bobadilla, L., Johnson, T. T., & LaViers, A. (2015). Verified Planar Formation Control Algorithms by Composition of Primitives. AIAA: Guidance, Navigation, and Control.
- Terry, I., Wu, A., Ramirez, S., Pissinou, A., Bobadilla, L., Pissinou, N., ... Carbutar, B. (2014). Geofit: Verifiable Fitness Challenges. Mobile Ad Hoc and Sensor Systems (MASS), 2014 IEEE 11th International Conference on.
- Gierl, D., Bobadilla, L., Sanchez, O., & LaValle, S. M. (2014). Stochastic Modeling, Control, and Verification of Wild Bodies. IEEE International Conference on Robotics and Automation.
- Bobadilla, J., Mostafavi, A., Carmentate, T., & Bista, S. (2014). Predictive Assessment and Proactive Monitoring of Struck-By Safety Hazards in Construction Sites: An Information Space Approach. 15th International Conference on Computing in Civil and Building Engineering.
- Carmentate, T., Rahman, M. M., Bobadilla, L., & Mostafavi, A. (2014). Ex-Ante Assessment of Struck-by Safety Hazards in Construction Projects: A Motion Planning Approach. IEEE International Conference on Automation Science and Engineering.
- Alam, T., Edwards, M., Bobadilla, L., & Shell, D. (2015). Distributed multi-robot area patrolling in adversarial environments. Presented at the Second International Workshop on Robotic Sensor Networks (RSN) 2015.

- Bobadilla, J., Martinez, F., Gobst, E., Gossman, K., & LaValle, S. M. (2012). Controlling wild mobile robots using virtual gates and discrete transitions. Presented at the In American Control Conference.
- Bobadilla, L., Sanchez, O., Czarnowski, J., & LaValle, S. M. (2011). Minimalist multiple target tracking using directional sensor beams. Presented at the In Proceedings IEEE International Conference on Intelligent Robots and Systems.
- Bobadilla, J., Sanchez, O., Czarnowski, J., Gossman, K., & LaValle, S. M. (2011). Controlling wild bodies using linear temporal logic. Presented at the In Proceedings Robotics: Science and Systems.
- Bobadilla, J., Gossman, K., & LaValle, S. M. (2011). Manipulating ergodic bodies through gentle guidance. Presented at the IEEE Conference on Robot Motion and Control.
- Bobadilla, J., Sanchez, O., & LaValle, S. M. (2010). Toward a Compositional Theory of Sensor-Based Robotic Systems. Presented at the In RSS 2010 Workshop Motion Planning: From Theory to Practice.
- Bobadilla, J., Sanchez, O., Gonzalez, F., & Barreto, E. (2007). Gene Selection Based On Category Detection Of Gene Ontology. Presented at the In Proceedings of the seventh international conference for the Critical Assessment of Microarray Data Analysis.
- Bobadilla, J., Nino, F., Cepeda, E., & Patarroyo, M. A. (2007). Characterizing and Predicting Catalytic Residues in Enzyme Active Sites Based on Local Properties: A Machine Learning Approach. Presented at the EEE 7th International Symposium on BioInformatics and BioEngineering.
- Bobadilla, J., Nino, F., Cepeda, E., & Patarroyo, M. A. (2007). A Novel Methodology for Characterizing and Predicting Protein Functional Sites. Presented at the IEEE International Conference on Bioinformatics and Biomedicine.
- Bobadilla Molina, J. L. (2005). A Genetic Word Clustering. Presented at the Proceedings of the IEEE Congress on Evolutionary Computation (CEC).
- Bobadilla Molina, J. L. (2004). Predicting and characterizing metal-binding sites using Support Vector Machines. Presented at the International Conference on Bioinformatics and Applications.

Funded Research/Grants

Funded - In Progress

RET in Engineering and Computer Science SITE: Research Experience for Teachers on Cyber-Enabled Tech, Funded by National Science Foundation (March 1, 2021 - February 29, 2024) (\$600,000.00), Funded - In Progress, Spring 2021, Key Personnel **Leonardo Bobadilla**

RET in Engineering and Computer Science SITE: Research Experience for Teachers on Cyber-Enabled Technologies, Funded by National Science Foundation (March 1, 2021 - February 29, 2024) (\$600,000.00), CoInvestigator **Leonardo Bobadilla** (0%).

Acquisition of a Combined Aerial and Underwater Motion Capture System, Funded by Army Research Office (April 26, 2021 - April 25, 2022) (\$599,253.00), Funded - In Progress, Spring 2021, PI **Leonardo Bobadilla**, CoPI Henry Briceno (0%) with CoPI Kevin Boswell (0%), PI (0%), CoPI Gregory Reis (0%), CoPI Ryan Smith (0%), Key Personnel Camilo Roa Penarete (0%)

NRI: FND: Extending Autonomy in Seemingly Sensory-Denied Environments Applied to Underwater Robots, Funded by National Science Foundation (September 1, 2020) (\$605,567.00), Funded - In Progress, Fall 2020, **PI Leonardo Bobadilla**

EAGER: Foundations of Secure Multi-Robot Computation, Funded by National Science Foundation (August 1, 2020 - July 31, 2022) (\$97,494.00), Funded - In Progress, Fall 2020, **PI Leonardo Bobadilla**

REU SITE: ASSET: Research Experiences for Undergraduates in Advanced Secured Sensor Enabling Technologies, Funded by National Science Foundation (March 1, 2019 - February 28, 2022) (\$397,684.00), Funded - In Progress, Spring 2019, Key Personnel Bogdan Carbunar (0%) with CoPI Sundararaj Iyengar (0%), PI Niki Pissinou (0%), Key Personnel Jerry Miller (0%), Key Personnel Deng Pan (0%), Key Personnel Ning Xie (0%), Key Personnel **Leonardo Bobadilla** (0%), Key Personnel Md Hoque (0%), Key Personnel Alexander Afanasyev (0%), Key Personnel Jun Li (0%)

Center for Homeland Security Research and Education, Funded by U.S. Department of Homeland Security (August 9, 2017 - July 31, 2022) (\$1,200,000.00), Funded - In Progress, Fall 2017, CoPI Bogdan Carbunar (0%) with CoPI Sundararaj Iyengar (0%), PI Jason Liu (0%), CoPI Ning Xie (0%), **CoPI Leonardo Bobadilla** (0%), CoPI Mark Finlayson (0%), CoPI Ruogu Fang (0%), CoPI Samuel Ganzfried (0%), CoPI Liting Hu (0%), CoPI Monique Ross (0%)

Completed

RAISE: C-Accel Pilot - Track B1 (AI and Future Jobs): Preparing the Future Workforce of Architecture, Engineering, and Construction for Robotic Automation Processes, Funded by National Science Foundation (September 1, 2019 - May 31, 2021) (\$973,333.00), **co-PI Leonardo Bobadilla.**

RET in Engineering and Computer Science SITE: Research Experience for Teachers on Cyber-Enabled Technologies, Funded by NSF (August 1, 2014) (\$498,000.00), Completed, Summer 2018, Other Leonardo Bobadilla (0.03%) [Activity Considered Community Engagement/Community-Engaged Scholarship?: No] [Approval for Pre-

award Spending: No] [Internal/External: External] [Type of Funding: Federal] [Type of Grant: Training]

Research, Education and Workforce Training for Engagement in the Cyber-learning Environment, Funded by ARL (August 1, 2017) (\$300,000.00), Completed, Fall 2017, CoInvestigator **Leonardo Bobadilla**

Gathering and Processing Sensor Data with Unmanned Relay Vehicles using Line-of-Sight Communication, Funded by Army Research Office (July 30, 2016 - April 29, 2017) (\$49,963.00), Completed, Spring 2017, PI Leonardo Bobadilla (0%)

REU SITE: ASSET: Research Experiences for Undergraduates in Advanced Secured Sensor Enabling Technologies, Funded by NSF (February 1, 2016) (\$360,000.00), Completed, Spring 2016, Other Leonardo Bobadilla [Activity Considered Community Engagement/Community-Engaged Scholarship?: No] [Approval for Pre-award Spending: No] [Internal/External: External] [Type of Funding: Federal] [Type of Grant: Training]

Robotics and Computer Science Experiences for Students in Riviera School., Funded by Ware Foundation. Robotics and Computer Science Experiences for Students in Riviera School. (February 12, 2015 - December 8, 2015), awarded February 5, 2015 (\$25,000.00), Completed, Fall 2015, PI Leonardo Bobadilla (0.5%) [Activity Considered Community Engagement/Community-Engaged Scholarship?: Yes] [Approval for Pre-award Spending: No] [Internal/External: External] [Type of Funding: Foundation] [Type of Grant: Service]

Professional Honors, Prizes, Fellowships

Fall 2004

Top ten student graduate in Computer Engineering, 2004, Colombian Ministry of Education

Fall 2005

Best admission score, 2005, National University of Colombia

Fall 2006

Outstanding Graduate Students Scholarship, 2006, National University of Colombia

Fall 2012

Graduate Mentor Award, 2012, University of Illinois at Urbana-Champaign

University Committees

University

Fall 2014 - Fall 2015

Library Committee, (Office Of The Provost) [Activity Considered Community Engagement/Community-Engaged Scholarship?: No] [Level of Service: College/School]

Business Unit

Fall 2020 - Ongoing

Faculty Senate Technology Committee, (Engineering Deans Office) [Activity Considered Community Engagement/Community-Engaged Scholarship?: No] [Level of Service: University]

Spring 2020 - Summer 2020

Artificial Intelligence Subject-matter Workgroup for the Quality Enhancement Plan (QEP), (Acad Plan and Accountability) [Activity Considered Community Engagement/Community-Engaged Scholarship?: No] [Committee Responsibility: Member] [Level of Service: University]

Other Institutional Service

Spring 2020 - Summer 2020

College of Engineering & Computing (CEC) 2025 Vision and Strategic Plan Committee, (COE Deans Office)

Fall 2016 - Ongoing

Graduate Faculty Committee, (Computer Info Sciences)

Spring 2014 - Ongoing

Faculty Search Committee, (Computer Info Sciences)

External Service

Spring 2021 - Spring 2021

Referee, IEEE Robotics and Automation Letters

Referee, IEEE/RSJ International Conference on Intelligent Robots and Systems

Fall 2020 - Fall 2020

Session Chair: Motion Planning, Control and Navigation I, IEEE Robotic Computing

Session co-Chair: Networked Robots, IEEE/RSJ International Conference on Intelligent Robots and Systems

Summer 2020 - Summer 2020

Referee, International Conference on Automation Science and Engineering

Referee, IEEE Transactions on Automation Science and Engineering

Spring 2020 - Spring 2020

Referee, Journal of Combinatorial Optimization

Referee, The International Journal of Robotics Research

Referee, Autonomous Robots

Referee, IEEE Robotics and Automation Letters

Panelist, National Science Foundation

Associate Editor (AE) , IEEE/RSJ International Conference on Intelligent Robots and Systems

Fall 2019 - Fall 2019

Referee, IEEE International Conference on Robotics and Automation

Spring 2019 - Spring 2019

Referee, IEEE/RSJ International Conference on Intelligent Robots and Systems

Referee, IEEE Conference on Decision and Control

Referee, Robotics: Science and Systems

Referee, IEEE Robotics and Automation Letters

Fall 2018 - Fall 2018

Referee, IEEE Transactions on Industrial Electronics

Panel Member , National Science Foundation

Associate Editor, International Conference on Robotics and Automation

Referee, Transactions on Mechatronics

Spring 2018 - Spring 2018

Referee, Autonomous Robots

Referee, IEEE/RSJ International Conference on Intelligent Robots and Systems

Referee, IEEE Robotics and Automation Letters

Fall 2017 - Fall 2017

Referee, International Conference on Robotics and Automation

Panel Member, National Science Foundation

Referee, IEEE Transactions on Robotics

Associate Editor, International Conference on Robotics and Automation

Summer 2017 - Summer 2017

Panel Member, National Science Foundation

Spring 2017 - Spring 2017

Referee, IEEE Robotics and Automation Letters

Fall 2016 - Fall 2016

Panel Member, National Science Foundation

Associate Editor, International Conference on Robotics and Automation

Summer 2016 - Summer 2016

Panel Member, National Science Foundation

Summer 2015 - Summer 2015

Program Committee Program Committee Member for the Machine Learning in Planning and Control of Robot Motion workshop (MLPC-2015)

Spring 2015 - Summer 2013

Graduate Representative, Latino-a Computer Science Club

Spring 2015 - Spring 2015

Referee, IEEE American Control Conference

Fall 2012 - Fall 2012

Organizer of the Symposium, University of Illinois, Urbana-Champaign

Fall 2011 - Fall 2011

Student Ambassador

Fall 2011 - Summer 2013

Graduate Student Representative, Computer Science Grad Council

Fall 2010 - Fall 2010

Reviewer, UIUC

Student Supervision/Mentoring

Spring 2019 - Spring 2021

Student Name: Alejandro Torres, Degree/Program: Computer Science, Student Type: Masters, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Alejandro's master thesis supervisor.

Summer 2018 - Summer 2020

Student Name: Musfiqur Sazal, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Giri Narasimhan, Affiliation (FIU or Other): FIU, I am part of Musfiqur's dissertation committee.

Student Name: Nestor Hernandez, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Bogdan Carbutar, Affiliation (FIU or Other): FIU

Student Name: Dewan Moksedul Alam , Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Xudong He, Affiliation (FIU or Other): FIU

Summer 2018 - Spring 2020

Student Name: Camilo Valdez, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Giri Narasimhan, Affiliation (FIU or Other): FIU

Student Name: Abhaykumar Kumbhar , Degree/Program: ECE, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Ismail Guvenc, Affiliation (FIU or Other): NCSU

Student Name: Leonardo Babun, Degree/Program: ECE, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Selcuk Uluagac, Affiliation (FIU or Other): FIU

Summer 2018 - Fall 2019

Student Name: Thejas Gubbi Sadashiva, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: S.S. Iyengar, Affiliation (FIU or Other): FIU

Spring 2017 - Fall 2019

Student Name: Samia Tasnim , Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: S.S. Iyengar, Affiliation (FIU or Other): FIU

Student Name: Abdur Rahman Bin Shahid, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Niki Pissinou, Affiliation (FIU or Other): FIU

Spring 2017 - Summer 2019

Student Name: Georges Arsene Kamhoua, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Niki Pissinou, Affiliation (FIU or Other): FIU

Fall 2018 - Summer 2019

Student Name: Shuai Xu, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Ning Xie, Affiliation (FIU or Other): FIU

Spring 2014 - Fall 2018

Student Name: Sebastian Zanlongo, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Sebastian PhD's advisor

Summer 2015 - Summer 2018

Student Name: Gregory Reis, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Title of project/thesis/dissertation (for graduated advisees only): Augmented Terrain-Based Navigation to Enable Persistent Autonomy for Underwater Vehicles in GPS-Denied Environments, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Gregory's Ph.D advisor

Spring 2014 - Summer 2018

Student Name: Tauhidul Alam, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Title of project/thesis/dissertation (for graduated advisees only): A Dynamical System Approach for Resource-Constrained Mobile Robotics, Faculty

Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Tauhidul's Ph.D advisor.

Fall 2016 - Spring 2018

Student Name: Samet Tonyali, Degree/Program: ECE, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Kemal Akkaya, Affiliation (FIU or Other): FIU

Fall 2015 - Fall 2017

Student Name: Hasan Mahmud, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Shaolei Ren, Affiliation (FIU or Other): FIU

Student Name: Kianoosh Gholam, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: S.S. Iyengar, Affiliation (FIU or Other): FIU

Student Name: Muhammad Razib, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Wei Zeng, Affiliation (FIU or Other): FIU

Fall 2016 - Fall 2017

Student Name: Wei Xue, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Tao Li, Affiliation (FIU or Other): FIU

Summer 2017 - Summer 2017

Student Name: Christian Silva, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Christian's Senior Project Advisor

Student Name: Sean Monroe, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Sean's Senior Project Advisor

Spring 2014 - Summer 2017

Student Name: Md. Mahbubur Rahman, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Title of project/thesis/dissertation (for graduated advisees only): Efficient Mission Planning for Robot Networks in Communication Constrained Environments, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Mahbubur's Ph.D advisor.

Spring 2016 - Spring 2017

Student Name: Leonardo Marmol, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Raju Rangaswami, Affiliation (FIU or Other): FIU

Fall 2014 - Fall 2016

Student Name: Nico Saputro , Degree/Program: ECE, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Kemal Akkaya, Affiliation (FIU or Other): FIU

Spring 2015 - Spring 2016

Student Name: Chunqiu Zeng, Degree/Program: Computer Science, Student Type: PhD, Student Status: Graduated, Faculty Advisor Name: Tao Li, Affiliation (FIU or Other): FIU

Summer 2015 - Summer 2015

Student Name: Irvin Cardenas, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Irvin's senior project advisor

Student Name: Diana Leante, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Diana's undergraduate project advisor.

Spring 2015 - Spring 2015

Student Name: Dalaidis Hidalgo, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Dalaidis's senior project supervisor.

Student Name: Maria Presa, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Graduated, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I was Maria's Senior Project Advisor

Fall 2018 - Ongoing

Student Name: Jerry Miller, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Niki Pissinou, Affiliation (FIU or Other): FIU

Fall 2019 - Ongoing

Student Name: Sanjeev Kaushik Ramani, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Alex Afanasyev, Affiliation (FIU or Other): FIU, I am part of Sanjeev's dissertation committee.

Fall 2020 - Ongoing

Student Name: Daniel Correa, Degree/Program: Data Science, Student Type: Masters, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Daniel research advisor in his Master.

Spring 2021 - Ongoing

Student Name: Paulo Padrao, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Paulo's Ph.D. advisor.

Student Name: Maral Kargarmoakhar, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Monique Ross, Affiliation (FIU or Other): FIU, I am part of the dissertation committee.

Student Name: Leila Zahedi, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Hadi Amini, Affiliation (FIU or Other): FIU, I am part of the dissertation committee.

Summer 2020 - Ongoing

Student Name: Cesar A. Rojas, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Cesar's Ph.D advisor.

Student Name: Stephanie Lunn , Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Monique Ross, Affiliation (FIU or Other): FIU

Spring 2020 - Ongoing

Student Name: Peter Vanegas, Degree/Program: Computer Science, Student Type: Undergraduate, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, Peter is part of the McNair Program and I am his research supervisor.

Summer 2018 - Ongoing

Student Name: Victor Potapenko, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Naphtali Rische, Affiliation (FIU or Other): FIU

Student Name: Maryamossadat Aghili, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Malek Adjouadi, Affiliation (FIU or Other): FIU

Fall 2017 - Ongoing

Student Name: Franklin Abodo, Degree/Program: Computer Science, Student Type: Masters, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Franklin's Master thesis advisor.

Summer 2019 - Ongoing

Student Name: Murtadha Alsayegh, Degree/Program: Computer Science, Student Type: PhD, Student Status: Current, Faculty Advisor Name: Leonardo Bobadilla, Affiliation (FIU or Other): FIU, I am Murtadha Alsayegh's Ph.D advisor

Offices Held in Professional Societies

2008 - Ongoing

IEEE Robotics and Automation Society

2007 - Ongoing

Institute for Electrical and Electronics Engineers (IEEE)