

[Home](#)[Research](#)[People](#)[Group Director](#)[Visiting Scientists and Postdoctoral Researchers](#)[Doctoral Students](#)[Master's Students](#)[Alumni](#)[Publications](#)[Contact](#)[Brown Bag](#)[Outreach](#)[Fun Stuff](#)

**Group Director**

Warren Dixon, Ph.D.,

## Newton C. Ebaugh Professor



Prof. Warren Dixon received his Ph.D. in 2000 from the Department of Electrical and Computer Engineering from Clemson University. He worked as a research staff member and Eugene P. Wigner Fellow at Oak Ridge National Laboratory (ORNL) until 2004, when he joined the University of Florida in the Mechanical and Aerospace Engineering Department. His main research interest has been the development and application of Lyapunov-based control techniques for uncertain nonlinear systems. He has published 3 books, an edited collection, 13 chapters, and approximately 130 journal and 230 conference papers. His work has been recognized by the 2015 & 2009 American Automatic Control Council (AACC) O. Hugo Schuck (Best Paper) Award, the 2013 Fred Eilersick Award for Best Overall MILCOM Paper, a 2012-2013 University of Florida College of Engineering Doctoral Dissertation Mentoring Award, the 2011 American Society of Mechanical Engineers (ASME) Dynamics Systems and Control Division Outstanding Young Investigator Award, the 2006 IEEE Robotics and Automation Society (RAS) Early Academic Career Award, an NSF CAREER Award (2006-2011), the 2004 Department of Energy Outstanding Mentor Award, and the 2001 ORNL Early Career Award for Engineering Achievement. He is an ASME Fellow and IEEE Fellow, an IEEE Control Systems Society (CSS) Distinguished Lecturer, and served as the Director of Operations for the Executive Committee of the IEEE CSS Board of Governors (2012-2015). He was awarded the Air Force Commander's Public Service Award (2016) for his contributions to the U.S. Air Force Science Advisory Board. He is currently or formerly an associate editor for *ASME Journal of Journal of Dynamic Systems, Measurement and Control*, *Automatica*, *IEEE Transactions on Systems Man and Cybernetics: Part B Cybernetics*, and the *International Journal of Robust and Nonlinear Control*.

[Email](#) | CV ([pdf - last updated Jan. 2017](#))

## Visiting Scientists and Postdoctoral Researchers

**Ryan Licitra**

Ryan Licitra received his Doctoral degree in Mechanical Engineering in 2017 from The University of Florida. His research interests include the study of network control systems, including systems with changing topologies, and multi-tasked agents. He is located at the UF REEF facility adjacent to Eglin AFB in Ft. Walton Beach, to facilitate extensive collaboration with AFRL research staff.

[Email](#) | [NCR Publications](#)

## Ph.D. Students

**Hsi-Yuan Chen**

Hsi-Yuan Chen received his bachelor's degree in 2014 from the Mechanical Engineering Department at the National Taiwan University of Science and Technology. As an undergraduate, he joined the Center for Intelligent Robots, where he spent two years researching robotic vision and navigation theories. His primary research interests include simultaneous localization and mapping, object recognition, and other vision-based control systems. Hsi-Yuan is currently pursuing a doctoral degree at the University of Florida under the supervision of Dr. Dixon.

[Email](#) | [NCR Publications](#)

**Zachary Bell**

Zachary Bell received his Bachelor's Degree in Mechanical Engineering and a minor in Electrical Engineering from the University of Florida in May 2015. He is currently pursuing his PhD under the supervision of Dr. Dixon, with research interests in network control, visual estimation, simultaneous localization and mapping, and mechanical design.

[Email](#) | [NCR Publications](#)

**Courtney Rouse**

Courtney Rouse received her Bachelor's degree in Mechanical Engineering from Illinois Institute of Technology (IIT) in 2015. As an undergraduate, she conducted research in both dielectrophoresis at Washington State University and prosthetic design at IIT. She is currently pursuing a PhD in mechanical engineering with a focus on nonlinear controls under the supervision of Dr. Dixon.

[Email](#) | [NCR Publications](#)

**Christian Cousin**

Christian Cousin received his Bachelor's degree in Mechanical Engineering and a minor in Electrical Engineering from the University of Florida in 2015. In his time as an undergraduate, Christian interned both with General Electric Appliances and twice with Eaton, once in Electrical Operations and once in Eaton's Vehicle Group. He is continuing at the University of Florida, pursuing a PhD in Mechanical Engineering with a focus on nonlinear controls under the supervision of Dr. Warren Dixon.

[Email](#) | [NCR Publications](#)

#### Patryk Deptula



Patryk Deptula received his Bachelor of Science in Mechanical Engineering and a Mathematics Minor, with high honors, from Central Connecticut State University (CCSU) in 2014. As an Undergraduate, he performed research related to Hybrid Propellant Rocket Engines and completed internships at Norgren - KIP Fluid Controls and Belcan Corporation. After graduating, Patryk immediately began working as an Engineer in the Control and Diagnostic Systems (DSC) group at Belcan Corporation, where he analyzed aircraft engine software. Currently, he is pursuing his PhD under the supervision of Dr. Dixon. His research interests include, but are not limited to, nonlinear controls and robotics applied to a variety of fields.

[Email](#) | [NCR Publications](#)

#### Federico Zegers



Federico Zegers attended the University of Florida where he earned two B.S. degrees in the spring of 2016: one in mechanical engineering and another in mathematics. He is currently pursuing a PhD in mechanical engineering under the guidance of Dr. Warren Dixon. Federico's research interests lie in nonlinear control theory, network control systems theory, switch systems theory, and graph theory.

[Email](#) | [NCR Publications](#)

**Runhan Sun**

Runhan Sun received his Bachelor of Science degree in Mechanical Engineering in 2015 from the University of California, Santa Barbara, and Master of Science degree in Mechanical Engineering in 2018 from the University of Florida. His research interests include nonlinear controls, switch systems controls, and vision-based control systems. He is currently pursuing a Ph.D. degree in Mechanical Engineering under the supervision of Dr. Dixon.

[Email](#) | [NCR Publications](#)

**Max Greene**

Max Greene earned his Bachelors of Science in Mechanical Engineering from the University of Florida in 2018. As an undergraduate, Max interned for the National Aeronautics and Space Administration in the Satellite Servicing Projects Division. He is currently pursuing a Ph.D. in mechanical engineering with a focus on nonlinear controls under the supervision of Dr. Warren Dixon.

[Email](#) | [NCR Publications](#)



## Brendon Allen



Brendon Allen received his Bachelor of Science degree in Mechanical Engineering in December 2015 from the University of Florida and his Master of Science degree in Mechanical Engineering in 2018 from Brigham Young University, Provo. He is currently pursuing a Ph.D. degree in Mechanical Engineering with a focus on nonlinear controls under the supervision of Dr. Warren Dixon.

[Email](#) | [NCR Publications](#)

## Alumni

### Ph.D. Students

Victor Duenas (2015-2018) [NCR Publications](#) | [Dissertation](#), **MAE Department Best Dissertation Award 2018**,

Assistant Professor, Syracuse University, Syracuse, NY.

Ryan Licitra (2013-2017) [NCR Publications](#) | [Dissertation](#),

Postdoctoral Researcher, Air Force Research Laboratory, Eglin Air Force Base, Fort Walton Beach, FL.

Indrasis Chakraborty (2014-2017) [NCR Publications](#) | [Dissertation](#),

Staff Control Scientist, Pacific Northwest National Laboratory, Richland, WA.

Serhat Obuz (2012-2016) [NCR Publications](#) | [Dissertation](#),

Assistant Professor, Eskisehir Osmangazi University, Turkey.

Anup Parikh (2012-2016) [NCR Publications](#) | [Dissertation](#), **MAE Department Best Dissertation Award 2017**,

Postdoctoral Researcher, Sandia National Laboratory, Albuquerque, NM.

Teng-Hu Cheng (2011-2015) [NCR Publications](#) | [Dissertation](#),

Assistant Professor, National Chiao Tung University, Hsinchu, Taiwan.

Matthew Bellman (2010-2015) [NCR Publications](#) | [Dissertation](#),

Co-Founder and Chief Technical Officer, [Myolyn LLC](#), Gainesville, SC.

Ryan Downey (2010-2015) [NCR Publications](#) | [Dissertation](#) **MAE Department Best Dissertation Award 2016**,

Post Doctoral Researcher, Medical University of South Carolina, Chareleston, SC.

Patrick Walters (2011-2015) [NCR Publications](#) | [Dissertation](#),

Staff Researcher, Naval Surface Warfare Center, Panama City, FL.

[Justin Klotz](#) (2011-2015) [NCR Publications](#) | [Dissertation](#),

Staff Researcher, Department of Defense, Huntsville, AL.

Rushikesh Kamalapurkar (2010-2014) [NCR Publications](#) | [Dissertation MAE Department Best Dissertation Award 2015](#),

Assistant Professor, Oklahoma State University, Stillwater, OK.

Brendan Bialy (2010-2014), [NCR Publications](#) | [Dissertation](#),  
Staff Researcher, Air Force Research Laboratory, Eglin Air Force Base, Fort Walton Beach, FL.

[Sankrith Subramanian](#) (2007-2012), [NCR Publications](#) | [Dissertation](#),  
xG Technology, Inc., Fort Lauderdale, FL.

[Nic Fischer](#) (2009-2012), [NCR Publications](#) | [Dissertation MAE Department Best Dissertation Award 2013](#),

Principal Engineer, area17, Menlo Park, CA.

Qiang Wang (2008-2012), [NCR Publications](#) | [Dissertation](#)  
Founder, QJWD Biomedical, Gainesville, FL.

[Huyen Dinh \(2008-2012\)](#), [NCR Publications](#) | [Dissertation](#)  
Assistant Professor, University of Transport and Communication, Hanoi, Vietnam.

Dohee Kim (2008-2011), [NCR Publications](#) | [Dissertation](#)  
Hyundai Motor Company, Korea.

[Zhen Kan](#) (2007-2011), [NCR Publications](#) | [Dissertation](#),  
Assistant Professor, University of Iowa, Iowa City, IA.

[Marcus Johnson](#) (2007-2011), [NCR Publications](#) | [Dissertation](#),  
Research Aerospace Engineer, NASA Ames Research Center, Moffett Field, CA.

[Ashwin Dani](#) (2007-2011), [NCR Publications](#) | [Dissertation MAE Department Best Dissertation Award 2012](#),

Assistant Professor, University of Connecticut, Storres, CT.

[Shubhendu Bhasin](#) (2007-2011), [NCR Publications](#) | [Dissertation](#),  
Associate Professor, Indian Institute of Technology, Delhi, India.

Zach Wilcox (2006-2010), [NCR Publications](#) | [Dissertation](#),  
Service Manager, Waterfront Construction, Seattle, WA.

[Nitin Sharma](#) (2006-2010), [NCR Publications](#) | [Dissertation MAE Department Best Dissertation Award 2011](#),

Assistant Professor, University of Pittsburgh, Pittsburgh, PA.

[Siddhartha Mehta](#) (2007-2010), [NCR Publications](#) | [Dissertation](#),  
Postdoctoral Fellow, Eglin AFB, Fort Walton Beach, FL.

Rhoe (Tony) Thompson (2006-2009), [NCR Publications](#) | [Dissertation](#),  
Branch Technical Advisor, Air Force Research Laboratory, Eglin Air Force Base, Fort Walton Beach, FL.

[Parag Patre](#) (2005-2009), [NCR Publications](#) | [Dissertation MAE Department Best Dissertation Award 2010](#),

Senior Controls and Robotics Engineer, TE Connectivity in Harrisburg, PA

William Mackunis (2006-2009), [NCR Publications](#) | [Dissertation](#),  
Associate Professor, Embry-Riddle Aeronautical University, Daytona Beach, FL.

Keith Dupree (2005-2009), [NCR Publications](#) | [Dissertation](#),  
Staff Researcher, Johns Hopkins Applied Physics Laboratory, Baltimore, MD.

Kent Kaiser (2005-2008), [NCR Publications](#) | [Dissertation](#),  
Honda Aircraft Company, Greensboro, NC.

[Guoqiang Hu](#) (2004-2007), [NCR Publications](#) | [Dissertation](#),  
Associate Professor, Nanyang Technological University (NTU), Singapore.

M.S. Students (thesis)



Jason Nezvadovitz (2016-2017), [\(thesis\)](#), Staff Researcher, MIT Lincoln Laboratories, Lexington, MA.

[Manelle Merad](#) (2013-2014), [\(thesis\)](#), France.

[Fanny Bouillon](#) (2012-2013), [\(thesis\)](#), France.

[Celine Laplassotte](#) (2011-2012), [\(thesis\)](#), MBA program, Paris, France.

Ganeshram Jayaraman (2007-2010), Research Intern, Technical University of Munich (TUM).

[Sankrith Subramanian](#) (2007-2009), [\(thesis\)](#), Doctoral Student, UF, FL.

[Keith Stegath](#) (2005-2007), [\(thesis\)](#), Private Company, Gainesville, FL

[Chien-Hao Liang](#) (2005-2007), [\(thesis\)](#), Taiwan.

[Sumit Gupta](#) (2004-2006), [\(thesis\)](#), Moore Tool Co. Inc., Bridgeport, CT

[Charu Makkar](#) (2004-2006), [\(thesis\)](#), Deloitte Consulting LLP, Chicago, IL.

#### Visiting Scholars and Postdoctoral Researchers (not former students)

Joel Rosenfeld, Vanderbilt University (2014-2017)

[Hiroyuki Kawai](#), Kanazawa Institute of Technology, Japan (2013-2014)

[Can Ulas Dogruer](#), Hacettepe University, Turkey (2012-2013)

[Yasunori Kawai](#), Kanazawa University, Japan (2012-2013)

[Dong Kyoung Chwa](#), Ajou University, China (2011-2012)

[Hakjae Kim](#), National Geospatial Intelligence Agency (2010-2012)

[Hee-Tae Chung](#), Pusan University of Foreign Studies, Pusan, South Korea (2010)

[Nick Gans](#), University of Texas at Dallas (2005-2009)

[Lennon Corke](#), Australian Research Centre for Aerospace Automation, Australia (2007)

[Hoi Bum Chung](#), Sunchon National University, China (2006-2007)

[Wei Wang](#), Harbin Institute of Technology, China (2006)

#### Co-Advised Alumni

##### Ph. D. Students

[Tom Galluzzo](#)

[Sanjay Solanki](#)

[Vilas Chitrakaran](#)

[Michael McIntyre](#)

[Jinho Lee](#)

[Jian Chen](#)

[Yongchun Fang](#)

##### M.S. Students

[Prakash Chawda](#)

[Siddhartha Mehta](#)