

Jerome Weston

CONTACT INFORMATION	Louisiana State University Department of Mathematics 303 Lockett Hall Baton Rouge, Louisiana 70803-4918	(337) 794-1366 jwesto3@lsu.edu
RESEARCH INTERESTS	Systems and Controls with Engineering Applications	
EDUCATION	Louisiana State University Ph.D. Candidate, Mathematics (expected August 2018). Advisor: Dr. Michael Malisoff, Roy Paul Daniels Professor B.S. in Mathematics, May 2013. Cum laude graduate, with minor in computer science	
RESEARCH EXPERIENCE	May 2017 -	Body Shape Analysis Advisor: Dr. Peter Wolenski, Department of Mathematics Louisiana State University, LSU Math Consultation Clinic
	May-June 2016	Infant Suck Detection Interface Advisor: Dr. Peter Wolenski, Department of Mathematics Louisiana State University, LSU Math Consultation Clinic
	2015 -	NSF Research Assistant Advisor: Dr. Michael Malisoff, Department of Mathematics
	2012-2013	Scattering Off of an Unusual Boundary - Undergraduate Thesis Advisor: Dr. Stephen Shipman, Department of Mathematics Louisiana State University
	June 2012	Sampling Theory Advisor: Dr. Mark Davidson, Department of Mathematics Louisiana State University, NSF VIGRE Summer Program
	June 2011	Phase Plane Diagrams of Differential Equations Advisor: Dr. Mark Davidson, Department of Mathematics Louisiana State University, NSF VIGRE Summer Program
PUBLICATIONS	F. Mazenc, M. Malisoff, and J. Weston, <i>New Bounded Backstepping Control Designs for Time-Varying Systems under Converging Input Converging State Conditions</i> . Proceedings of the IEEE Conference on Decision and Control, Las Vegas, NV, 2016, pp. 3167-3171, DOI: 10.1109/CDC.2016.7798744. J. Weston, M. Malisoff, and F. Mazenc, <i>Sequential Predictors under Time-Varying Delays: Effects of Delayed State Observations in Dynamic Controller</i> . Proceedings of the IEEE Conference on Decision and Control, Melbourne, Australia, 2017, pp. 4351-4356. DOI: 10.1109/CDC.2017.8264301. F. Mazenc, M. Malisoff, L. Burlion, and J. Weston, <i>Bounded Backstepping Control and Robustness Analysis for Time-Varying Systems under Converging Input Converging State Conditions</i> . European Journal of Control, accepted in February 2018, in press. DOI: 10.1016/j.ejcon.2018.02.005. J. Weston and M. Malisoff, <i>Sequential Predictors under Time-Varying Feedback and Measurement Delays and Sampling</i> . IEEE Transactions on Automatic Control, submitted in December 2017 and in revised form in June 2018, in review.	

Sobhiyeh et al., *Universal Software for Automated Anthropometry Measurements: Evaluation with Two Different Systems*. Proceedings of the 11th International Symposium on In Vivo Body Composition Studies, New York, NY, 2018, in press.

J. Weston, *Backstepping and Sequential Predictors for Control Systems*, Ph.D. Dissertation, in preparation.

CONFERENCE TALKS *New Bounded Backstepping Control Designs for Time-Varying Systems under Converging Input Converging State Conditions*, Midwest Optimization Meeting, Michigan State University (October 2016) and IEEE Conference of Decision and Control, Las Vegas, NV (December 2016).

Sequential Predictors under Time-Varying Feedback and Measurement Delays and Sampling, 42nd SIAM Southeastern Atlantic Sectional Conference (March 2018).

EXTENDED PROFESSIONAL TRAVEL July 2016 American Control Conference 2016, Boston, Massachusetts
MSRI Summer School on Electronic Structure Theory, Berkeley, California

OTHER TALKS *Cops & Robbers: A differential game*, MathCircle, Louisiana State University. (June 2015)
Intro to Calculus of Variations, Liquid Crystals Seminar (Informal), Louisiana State University. (April 2017)

TEACHING EXPERIENCE October, 2014 Lecturer, LSU ACT Test Prep
Jan-Dec, 2017 Math Tutor, Gardere Initiative
August-December, 2017 MATH 1550 Teaching Assistant, LSU

HONORS AND AWARDS 2013-2015 Louis Stokes Alliance for Minority Participation & Bridge to the Doctorate Fellowship

GRADUATE COURSEWORK Real Analysis (MATH 7311) Stochastic Analysis (MATH 7366)
 Complex Analysis (MATH 7350) Functional Analysis (MATH 7330)
 Ordinary Differential Equations (MATH 7320) Calculus of Variations (MATH 7390)
 Partial Differential Equations (MATH 7386) Topics in Material Science (MATH 7384)
 Probability (MATH 7360) Numerical Linear Algebra (MATH 7710)
 Finite Element Method (MATH 7325)
 Topics in Numerical Analysis (MATH 7390)

RELEVANT SKILLS Computer Languages: C++, Python
Software: MATLAB, Mathematica, LaTeX

SERVICE Organizer of Minisymposium “New Control Methods for Dynamic Systems” at 42nd SIAM Southeastern Atlantic Sectional Conference (March 2018)

REFERENCES **Mark Davidson**, Professor, Louisiana State University,
1-225-578-1581, davidson@lsu.edu

Michael Malisoff, Roy Paul Daniels Professor, Louisiana State University,
1-225-578-6714, malisoff@lsu.edu

Stephen Shipman, Professor, Louisiana State University,
1-225-578-1674, shipman@math.lsu.edu

Terrie White, Senior Instructor, Louisiana State University,
1-225-578-1898, twhite3@lsu.edu

Peter Wolenski, Russell B. Long Professor, Louisiana State University,
1-225-578-1606, wolenski@math.lsu.edu