

Education	University of Washington - Seattle PhD Student in Electrical Engineering	September 2014 - Expected August 2019
	University of Washington - Seattle Bachelor of Science in Electrical Engineering Embedded Computing and Control Systems	September 2009 - June 2013
Experience	University of Washington Seattle, WA Conducted research under the supervision of Prof. Sam Burden in the BioRobotics Lab. Honorable Mention for the NSF GRFP award.	Research Assistant June 2015 – Present
	University of Washington Seattle, WA Helped teach Control System Analysis I and the Controls, Robotics, and Systems Capstone class.	Teaching Assistant September 2014 – June 2015
	Microsoft Seattle, WA Worked in the Data Platform and Services Group of the Supply Chain Unit. Received the Partner Excellence Award.	Software Engineer June 2013 – September 2014
	Sonosite Bothell, WA Performed algorithmic model maintenance in Matlab and C. System and DSP testing using automated ruby scripts.	DSP Software Intern July 2012 – June 2013
	BioRobotics Laboratory Seattle, WA Research, design, and project planning on robotic and haptic devices.	Undergraduate Researcher March 2012 – June 2013
	Selected Projects and Publications	
	Modeling and predicting dynamic cockroach locomotion B. Banjanin, S. A. Burden, T. Y. Moore, S. Revzen, and R. J. Full. Estimating predictive dynamical models of legged locomotion from data. <i>Yearly meeting of the Society for Integrative and Comparative Biology (SICB)</i> , 2016.	Winter 2014-Spring 2016
	Learning policies for hybrid dynamical systems B. S. Banjanin, S. A. Burden. Nonsmooth optimal value and policy functions for mechanical systems subject to unilateral constraints. <i>arXiv:1710.06745</i> , 2017.	Fall 2016-Present
	Modeling the effect of ankle foot orthoses M. C. Rosenberg, B. S. Banjanin, M. Yamagami, S. A. Burden, K. M. Steele. Practical modeling of kinematic and motor response to ankle orthosis stiffness: a comparison of candidate models and states in healthy adults. <i>In Preparation</i> , 2018.	Fall 2016-Present
Skills	Programming Experienced in Python; NumPy and Pandas stack. Proficient in C, Java, Matlab, and SQL.	
	Technical Expertise <i>Control Theory</i> - Linear Systems, Hybrid Systems, Optimal Control. <i>Data Science</i> - Probabilistic and Statistical Methods, Reinforcement and Deep Learning.	