

# Curriculum Vitae

**Nicole Mazouchova**

PhD candidate  
1900 North 12th Street  
Philadelphia, PA, USA  
19122

**October 26, 2016**

nicole.mazouchova@temple.edu  
nicolemazouchova.weebly.com  
678-544-8034

## Education

- **Temple University** Philadelphia, PA, USA  
*Ph.D. - Biology* 2012 - current
  - Research advisor: S. Tonia Hsieh, Ph.D.
  - Project: Kinematics of gait transitions between the water-land interface
- **Georgia Institute of Technology** Atlanta, GA, USA  
*M.Sc. - Biology* 2007 - 2012
  - Research advisor: Daniel I. Goldman, Ph.D.
  - Project: Principles of fin and flipper locomotion on granular media
- **University of Guelph** Guelph, ON, Canada  
*B.Sc. - Marine and Freshwater Biology* 2002 - 2006

## Publications

1. **Nicole Mazouchova** and S. Tonia Hsieh, "Water depth influences dynamic similarity and locomotor mode in semi-aquatic turtles", in prep.
2. **Nicole Mazouchova** and S. Tonia Hsieh, "Semi-aquatic turtles use multiple gaits when moving under water", in prep.
3. **Nicole Mazouchova** and Daniel I. Goldman, "Effects of granular incline angle on loggerhead sea turtle hatchling (*Caretta caretta*) locomotion in the field", in prep.
4. Jeffrey Aguilar, Tingnan Zhang, Feifei Qian, Mark Kingsbury, Benjamin McInroe, **Nicole Mazouchova**, Chen Li, Ryan Maladen, Chaohui Gong, Matt Travers, Ross L. Hatton, Howie Choset, Paul B. Umbanhowar and Daniel I. Goldman, "Locomotion robophysics: the study of movement at the intersection of robotics, soft matter and dynamical systems", Reports on Progress in Physics, 79 110001 (2016).
5. **Nicole Mazouchova**, Paul B. Umbanhowar and Daniel I. Goldman, "Flipper driven terrestrial locomotion of a sea turtle inspired robot", Bioinspiration and Biomimetics, 8, 026007 (2013).
6. Nick Gravish, Mateo Garcia, **Nicole Mazouchova**, Laura Levy, Paul B. Umbanhowar, Michael A. D. Goodisman and Daniel I. Goldman, "Effects of worker size on the dynamics of fire ant tunnel construction", Journal of the Royal Society Interface, 9, 3312 (2012).
7. Yang Ding, Nick Gravish, Chen Li, Ryan D. Maladen, **Nicole Mazouchova**, Sarah S. Sharpe, Paul B. Umbanhowar and Daniel I. Goldman, "Comparative studies reveal principles of movement on and within granular media", IMA Workshop on Locomotion (2011).

8. **Nicole Mazouchova**, Nick Gravish, Andrei Savu, and Daniel I. Goldman, "Utilization of granular solidification during terrestrial locomotion of hatchling sea turtles", *Biology Letters*, 6, 398 (2010).

### Grants, Fellowships & Awards

1st Place in 2nd Annual Graduate Research Competition, College of Engineering, TU	2015
Archie Carr Student Award: Field Biology	2013
Georgia Tech Research and Innovation: Travel Award	2012
Boyd Lyon Award: Best Student Paper	2012
Georgia Tech Research and Innovation: Research Fellowship	2010-2012
IBSI Integrative Biology: Graduate Fellowship	2009

### Teaching experience

Experimental Marine Biology, Temple University	Summer I 2015
Teaching in Higher Education Certificate	Spring 14
Introduction to Biology, Temple University	Fall 12, 13 & 14, Spring 13, 14 & 15
Evolution, Georgia Institute of Technology	Fall 09
Volunteer TA Invertebrate Zoology, University of Guelph	Fall 05 & Spring 06

### Conference talks and posters

Society for Integrative and Comparative Biology, Portland, OR	2016
Southeastern Regional Sea Turtle meeting, Jekyll Island, GA	2015
Society for Integrative and Comparative Biology, West Palm Beach, FL	2015
World Congress of Biomechanics, Boston, MA	2014
Annual Symposium on Sea Turtle Biology and Conservation, New Orleans, LA	2014
Winter Workshop on Neuromechanical Locomotion, Princeton, NJ	2014
Annual Symposium on Sea Turtle Biology and Conservation, Baltimore, MD	2013
Society for Integrative and Comparative Biology, San Francisco, CA	2013
Georgia Tech Research and Innovation Conference, Atlanta, GA	2012
Southeastern Regional Sea Turtle meeting, Jekyll Island, GA	2012
Society for Integrative and Comparative Biology, Charlotte, SC	2012
Annual Symposium on Sea Turtle Biology and Conservation, San Diego, CA	2011
Society for Integrative and Comparative Biology, Salt Lake City, UT	2011
Georgia Tech Research and Innovation Conference, Atlanta, GA	2010
Society for Integrative and Comparative Biology, Seattle, WA	2010
American Physical Society 62nd Annual Meeting, Minneapolis, MN	2009
Southeast Soft Materials Workshop Soundbite, Atlanta, GA	2009
Georgia Tech Graduate Research Symposium, Atlanta, GA	2009
Southeast Soft Materials Workshop Soundbite, Atlanta, GA	2008
Annual Symposium on Sea Turtle Biology and Conservation, Myrtle Beach, SC	2007

### **Invited talks**

W.B. Saul Agricultural High School: Philadelphia, PA, USA	2013
Prague Technical University: Department of Biomechanics, Prague, Czech Republic	2012

### **Professional Associations**

Women's Diver Hall of Fame	2015 - present
Society of Women Engineers	2015 - present
Society for the Study of Amphibians and Reptiles	2013 - present
Society for Integrative and Comparative Biology	2009 - present
International Sea Turtle Society	2007 - present
American Physical Society	2009 - 2011