

# Michael Tennenbaum

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Soft matter physicist and rheologist with 5+ years of research experience. I have developed protocols to measure non-standard materials. Experienced in managing multiple projects simultaneously as well as managing researchers in lab and volunteers as part of community service.

## Education

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Georgia Institute of Technology		Atlanta, GA
<b>Ph.D. Physics</b>	GPA 3.7	<b>Expected Summer 2018</b>
Georgia Institute of Technology		Atlanta, GA
<b>M.S. Physics</b>	GPA 3.4	<b>2013</b>
University of California, Merced		Merced, CA
<b>B.S. Physics</b>	GPA 3.7	<b>2011</b>

## Laboratory Experience

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*Graduate Research* Under Dr. Alberto Fernandez-Nieves Aug 2013 – Present

- Designed, built, and characterized custom rheometry geometry to allow for measurements of the rheology of fire ant aggregations
- Implemented experimental protocols and implemented code to measure and process LAOS rheological measurements
- Developed protocols for rheological measurements of blood clots while forming
- Performed real space imaging and analysis in conjunction with rheological measurements of changing states in fire ant aggregations
- Implemented code to analyze multichannel 3D confocal fluorescence image data to look at proliferation rates of cells on curved surfaces
- Supervised undergraduate researcher working on granular material in narrow columns

## Teaching Experience

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Graduate Statistical Mechanics	<i>Teaching Assistant</i> , Georgia Institute of Technology	Spring 2018
Introductory Physics	<i>Teaching Assistant</i> , Georgia Institute of Technology	Fall 2012 – Summer 2014
Introductory Calculus 1	<i>Teaching Assistant</i> , University of California, Merced	Spring 2012

## Community Service

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Bicycle Infrastructure Improvement Committee, Atlanta, GA		Fall 2013 – Present
<i>Committee Chair (Fall 2016 - Fall 2017)</i>	<i>Starter Bikes Representative (Fall 2013 - Spring 2017)</i>	
Starter Bikes (Bicycle cooperative), Atlanta, GA		Fall 2012 – Present
<i>Volunteer (Fall 2012 - Present)</i>	<i>President (Fall 2013 - Spring 2017)</i>	

## Honors and Awards

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Sam Nunn Security Program Fellow  
Science and Technology of Advanced Materials and Interfaces Graduate Student Fellow  
GT Physics of Living Systems Lunch and Learn Coordinator  
Best soundbite (in section) Soft Materials Workshop 2016  
GT Center for Teaching and Learning GoSTEM Teaching Fellow

## Publications

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Tennenbaum, M., Liu, Z., Hu, D., & Fernandez-Nieves, A., *Nature Materials* (2016)  
Myers, D. R., Qiu, Y., Fay, M. E., Tennenbaum, M. et. al., *Nature Materials* (2017)  
Tennenbaum, M. & Fernandez-Nieves, A., *Physical Review E* (2017)