

# STEPHANIE LUFF

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## Education

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- Aug 2011 – May 2016 **Ph.D., Molecular Biology and Genetics**  
Department of Biological Sciences  
University of Delaware, Newark, DE, 19711  
Advisor: Eleftherios T. Papoutsakis, Ph.D., Department of Biomolecular and Chemical Engineering  
Dissertation Title: *Shear Stress-Induced Megakaryocyte Maturation Involves Transcription Factors p53 and AP-1*
- Aug 2008 – May 2011 **B.S., Biological Sciences**  
Nova Southeastern University, Ft. Lauderdale, FL, 33314
- Aug 2007 – Aug 2008 **Pre-Pharmacy Program**  
Purdue University, West Lafayette, IN, 47907
- May 2007 **Graduate in Top 10%**  
Jeffersonville High School, Jeffersonville, IN, 47130

## Academic Work Experience

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- Jan 2013 – current **NSF Integrative Graduate Education and Research Traineeship (IGERT) Fellow**, Systems Biology of Cells in Engineered Environments  
<http://sbe2igert.dbi.udel.edu/index.php>  
Description: Traineeship included a lab rotation in computational biology (Dr. Cathy Wu, Director, Center for Bioinformatics & Computational Biology), industry rotation as Government Affairs intern at Delaware Bioscience Association, Innovation rotation with Fraunhofer CMB that provided experience working on an industry-related scientific problem, courses on “Ethics, Business & Communication in Life Sciences” and “Systems Biology of Cells in Engineered Environments”, and opportunities for outreach and development of communication skills.
- Aug 2011 – May 2012 **Graduate Teaching Assistant**, Introduction to Biology I and II, University of Delaware, Newark, DE  
Description: Each semester, I ran two laboratory sections with 18 students per section. This involved giving a short lecture on background information, writing and grading quizzes, guiding students as they perform experiments, instructing on scientific writing, grading lab reports, and holding office hours to answer questions regarding lab and lecture.

## Scientific Research

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- Dec 2011 – current **Graduate Research Assistant to Eleftherios T. Papoutsakis, Ph.D.**, Delaware Biotechnology Institute, University of Delaware, Newark, DE, 19711  
Project Title: Megakaryocytic Maturation Through Shear Stress-Induced Transcriptome Modulation Involves Transcription Factors p53 and AP-1
- Oct 2010 – Apr 2011 **Undergraduate Research Assistant to Paula A. Faria Waziry, Ph.D.**, Nova Southeastern University, Ft. Lauderdale, FL, 33314  
Project Title: VSV-Susceptible HeLa Cells Through Statin Treatment Could Yield a Targeted Cancer Treatment

## Publications

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- Accepted Jan 2016 **S. A. Luff**, E. T. Papoutsakis, Megakaryocytic Maturation in Response to Shear Flow Is Mediated by the Activator Protein 1 (AP-1) Transcription Factor via Mitogen-activated Protein Kinase (MAPK) Mechanotransduction. *Journal of Biological Chemistry* 291, 7831-7843 (2016).
- Published Apr 2016
- In Preparation **S. A. Luff**, C. Y. Kao, E. T. Papoutsakis. Transcription-Independent p53-Induced Apoptosis is Involved in Shear Flow-Induced Megakaryocytic Microparticle Generation.
- June 2016 Submission

## Oral Presentations

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- Aug 2013 **CAT (Center for Advanced Technology) and IGERT (Integrative Graduate Education and Research Traineeship) Symposium**, Embassy Suites, Newark, DE, 19711  
Title: “How are platelets made?”, Stephanie Luff and Eleftherios T. Papoutsakis, Ph.D.
- Aug 2014 **IGERT (Integrative Graduate Education and Research Traineeship) Retreat**, Delaware Biotechnology Institute, Newark, DE, 19711  
Title: “How are platelets made?”, Stephanie Luff and Eleftherios T. Papoutsakis, Ph.D.
- Oct 2015 **Delaware Bio Life Science Professionals One Minute One Slide**, Delaware Biotechnology Institute, Newark, DE, 19711,  
<http://delawarebio.org/lsp-october-2015>  
Title: “Human Body, How Do You Do It So Well?”, Stephanie Luff

## Poster Presentations

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- Nov 2014 **43rd Annual Philadelphia Workshop on Hemostasis, Thrombosis, and Atherosclerosis**, Temple University, Philadelphia, PA, 19122  
Title: “Megakaryocytic Transcriptome Modulation in the Shear Stress Response Involves Transcription Factors p53 and AP-1”

- Nov 2013 **42rd Annual Philadelphia Workshop on Hemostasis, Thrombosis, and Atherosclerosis**, Thomas Jefferson University, Philadelphia, PA, 19107  
Title: "Megakaryocytic Transcriptome Modulation in Response to Shear Stress"
- Oct 2013 **Third Annual Delaware Cardiovascular Research Center Symposium**, Embassy Suites, Newark, DE, 19711  
Title: "Megakaryocytic Transcriptome Modulation in Response to Shear Stress"
- May 2013 **National Science Foundation IGERT 2013 Poster and Video Competition Winners Showcase**, NSF Headquarters, Arlington, VA, 22230  
Title: "Megakaryocytic Transcriptome Modulation in Response to Shear Stress"

## **Awards & Honors**

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- Apr 2015 – Apr 2017 **AAAS/Science Program for Excellence in Science**
- Nov 2014 **Poster presentation runner-up winner**, 43rd Annual Philadelphia Workshop on Hemostasis, Thrombosis, and Atherosclerosis, Temple University, Philadelphia, PA, 19122
- May 2014 **Graduate Student Government Award for Outstanding Service**, University of Delaware, Newark, DE, 19711
- May 2013 **National Science Foundation IGERT Poster and Video Competition Winner**, Judges Choice, <http://posterhall.org/igert2013/posters/393>
- Mar 2013 **AIChE Journal Cover Design**, AIC 59(3)
- 2009 – 2011 **Dean's List**, Nova Southeastern University

## **Affiliations & Leadership**

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- Sep 2012 – May 2016 **Graduate Student Government**  
Vice President of Membership (May 2015 – current)  
Biological Sciences Senator (Sept 2012 – May 2015)  
Communication Committee Chair (Sept 2013 – May 2015)
- May 2015 – current **University of Delaware Faculty Senate**  
Graduate Studies Graduate Student Representative
- Dec 2013 – May 2015 **College of Arts and Sciences Faculty Senate**  
Graduate Student Representative
- Apr 2012 – May 2014 **Biology Graduate Student Association**  
Secretary, GSG Liaison
- Apr 2010 **Alpha Chi National College Honor Society**  
Lifetime Member

- 2009 - current **Beta Beta Beta Biological Honor Society**, Rho Rho Chapter  
Lifetime Member (Initiated 2009), President (2010 – 2011)
- Jun 2010 – May 2011 **Nova Southeastern College of Arts & Sciences Peer Leader Program**  
Peer Leader

## Scientific Outreach & Community Service

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- June 2015 **Innovate to Mitigate Challenge 2015 Judge**  
<http://innovate2015.videohall.com>
- Oct 2014 **Coast Day Volunteer**, Delaware Biotechnology Institute Booth  
Oct 2013 University of Delaware, Newark, DE  
Task: Clean up a simulated oil spill
- Apr 2014 **Ag Day Volunteer**, Delaware Biotechnology Institute Booth  
University of Delaware, Newark, DE  
Task: Explain microscopy basics
- Feb – Mar 2014 **Delaware BioGENEius Challenge 2013 Judge**, The Delaware Tech New  
Castle County Science Fair, Newark, DE, 19713
- 2014 – 2015 **American Red Cross, Delmarva Chapter**  
Disaster Action Team (Jan 2014 – Nov 2014)  
Regional Response Team (Nov 2014 – July 2015)
- Oct 2013 **Delaware Biotechnology Institute Tours**  
Task: Tour guide for high school students
- Jan 2010 **Science Alive**, Welleby Elementary School, Sunrise, FL, 33351  
Task: Perform science projects with elementary school children

## Academic Service & Professional Development

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- Oct 2015 **University of Delaware Trustee Committee on Public Affairs and**  
Apr 2015 **Advancement**, Graduate student representative
- Aug 2015 **New Graduate Student Orientation Panelist**, “Your First Semester as a  
Ph.D. Student”
- May 2015 **Graduate Student Focus Group for Presidential Search**
- Apr 2014 – Jul 2014 **Delaware Bioscience Association**, Newark, DE, 19711  
Government Affairs & Community Outreach Intern
- Apr 2014 **American Institute of Biological Sciences Congressional Visits Day**,  
Public Policy Office, Washington, D.C., 20005
- Jun 2013 **Arizona State University, Science Outside the Lab**, ASU Washington  
Center, Washington, D.C., 20009