Lauren R. Finkenauer

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EDUCATION	
Carnegie Mellon University, Pittsburgh, PA	Anticipated June 2017
Ph.D. Materials Science & Engineering	
Carnegie Mellon University, Pittsburgh, PA	May 2016
M.S. Mechanical Engineering	
University of Maryland, College Park, MD	May 2012
B.S. Mechanical Engineering	
HONORS & FELLOWSHIPS	
 NSF Graduate Research Fellowship Recipient 	Spring 2014
NSF Graduate Research Fellowship: Honorable Mention	Spring 2013
 Women in Engineering Undergraduate Research Fellowship 	Fall 2011 – Spring 2012
 Pi Tau Sigma Mechanical Engineering Honor Society 	Spring 2010 – Spring 2012

- Primannum Honor Society, University of Maryland
- University of Maryland Honors Program

PUBLICATIONS

• Finkenauer, L., Wissman, J., Majidi, C., & Deseri, L, "Modeling of curved cantilever dielectric elastomer actuator using universal solution in finite bending," Proceedings of the Society of Engineering Science 51st Annual Technical Meeting, October 2014.

Spring 2009 – Spring 2012

Fall 2008 - Spring 2012

- J. Wissman*, L. Finkenauer* L. Deseri and C. Majidi (*co-authors), "Saddle-like deformation in a dielectric elastomer actuator embedded with liquid-phase gallium-indium electrodes," *Journal of Applied Physics*, **116**, 144905 (2014).
- L. R. Finkenauer and C. Majidi, "Complaint liquid metal electrodes for dielectric elastomer actuators," 2014, p. 905631.
- T. Lu, L. Finkenauer, J. Wissman, and C. Majidi, "Rapid Prototyping for Soft-Matter Electronics," *Advanced Functional Materials*, p. n/a–n/a, Feb. 2014.

PRESENTATIONS

LOENTATIONO		
 ACS Colloid and Surface Science Symposium Participant Presenting Scientific Poster Surfactant enabled stabilization and dispersion of liquid metal nanoparticles 	Cambridge, MA June 2016	
 SPIE Conference 9056: Electroactive Polymer Actuators and Devices Participant Presenting Scientific Poster Compliant Liquid Metal Electrodes for Dielectric Elastomer Actuators 	San Diego, CA March 2014	
 University of Maryland Undergraduate Research Day Mid-Atlantic Micro/Nano Alliance Conference Participant Presenting Scientific Poster High-Resolution All Polymer Capacitive Skins 	College Park, MD Annapolis, MD April, March 2012	
Society of Women Engineers Annual Conference Presenter – Region E Joint Collegiate and Professional Meeting	Long Beach, CA October 2009	

- Co-led briefing to Region E professional and collegiate section members
- Demonstrated new and more efficient blog format created after being elected to position of Regional Collegiate Communications Editor (RCCE)

TECHNICAL SKILLS

- ANSYS, Pro/ENGINEER, SolidWorks, MATLAB and SIMULINK, Mathematica, LabVIEW, AutoCAD, OriginPro
- Transmission electron microscopy (TEM), Scanning electron microscopy (SEM), Dynamic light scattering (DLS), Static light scattering (SLS), UV/Vis spectroscopy, CO₂ and UV laser patterning/micromachining, 3D printing, Photolithography, Cryo/Ultramicrotomy
- Experience with Instron tensile loaders, Bubble pressure tensiometer, Rotation rheometer, Ultracentrifuge