# Parisa Pour Shahid Saeed Abadi


**Contact Information**

Department of Mechanical Engineering-Engineering Mechanics
1022 R. L. Smith Building
Michigan Technological University
Houghton, MI 49931

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**Education**

Postdoc Medicine — July 2015 – June 2017
Harvard Medical School, Brigham and Women's Hospital, Boston, MA
Advisors: Profs. Ali Khademhosseini & Omid Farokhzad

Ph.D. Mechanical Engineering — July 2009 – May 2013
Georgia Institute of Technology, Atlanta, GA
Advisors: Profs. Samuel Graham & Baratunde A. Cola
Dissertation Committee: Profs. Satish Kumar, Hamid Garmestani, and Ting Zhu

M.S. Mechanical Engineering — January 2008 – May 2009
State University of New York at Buffalo, Buffalo, NY
Advisor: Prof. Deborah D. L. Chung

B.S. Aerospace Engineering — September 2002 – July 2006
Sharif University of Technology, Tehran, Iran

**Employment**

Assistant Professor — July 2017 – present
Department of Mechanical Engineering-Engineering Mechanics &
Affiliated Assistant Professor
Department of Biomedical Engineering — May 2018 – present
Department of Materials Science and Engineering — Aug 2018 – present
Michigan Technological University, Houghton, MI

Postdoctoral Research Fellow — July 2015 – June 2017
Brigham and Women's Hospital
Harvard Medical School, Boston, MA

Visiting Assistant Professor — August 2013 – August 2014
Department of Mechanical Engineering
Stevens Institute of Technology, Hoboken, NJ

Graduate Research Assistant — August 2009 – August 2013
Woodruff School of Mechanical Engineering
Georgia Institute of Technology, Atlanta, GA

Graduate Teaching Assistant — January 2009 – May 2009
Department of Mechanical Engineering
University at Buffalo, Buffalo, NY

**Awards & Honors**

Research Excellence Fund Seed Grant, Michigan Tech — 2021

Scientist Development Grant, American Heart Association — 2017

Postdoctoral Research Fellowship, National Institute of Health T32 Program, Organ Design and Engineering Training Program — 2016

Microgrant, Brigham Research Institute and Center for Faculty Development and Diversity's Office for Research Careers — 2016

Postdoctoral Research Fellowship, American Association of University Women 2015
Best Poster Award Nominee, Materials Research Society Spring Meeting 2013
Presentation Award Finalist, Society of Engineering Science 49th ATM 2012
Outstanding Poster Award, Georgia Tech Research and Innovation Conference 2011 & 2012
Elected to Who's Who Among Students in American Universities and Colleges 2011
National Science Foundation Summer Institute Fellowship 2010
Best Student Paper Award, IMAPS Workshop on Thermal Management 2008

## Grants

Additive Manufacturing of Functional Nanocomposites
*Michigan Tech VPR Research Excellence Fund Seed Grant*
PI: P. P. S. S. Abadi, 2021 – 2022
Award Amount: $15,500 + $4,000 matching fund

3D Printed Nano-bioactuators and Their Application in Navigation of Endovascular Catheters
*American Heart Association Scientist Development Grant*
PI: P. P. S. S. Abadi, 2017 – 2021
Award Amount: $231,000 + $170,000 MTU matching fund

MRI: Acquisition of Nanoscribe Photonic Professional GT2 3D Lithography System
*Natonal Science Foundation*
co-PI: P. P. S. S. Abadi, 2020 – 2021
Award Amount: $396,632 + $132,640 MTU matching fund

PHF-REF-IE: Acquisition of a Flow Cytometer for Research Applications in Chemistry, Biochemistry, and Engineering
*Michigan Technological University VPR*
co-I: P. P. S. S. Abadi, 2020
Award Amount: $43,000 + $57,000 matching fund

Microgrant:
*Brigham Research Institute and Center for Faculty Development and Diversity's Office for Research Careers*
PIs: P. P. S. S. Abadi and S. R. Shin, 2016
Award Amount: $2,500

Bioinspired Multifunctional Materials Based on Carbon Nanotubes
*American Association of University Women Postdoctoral Fellowship*
PI: P. P. S. S. Abadi, 2015 – 2016
Award Amount: $35,000 + $5,000 Harvard matching fund

## University & Professional Service

Guest Editor, Special Issue "Flexible Sensors/Biorobotics for Biomedical Applications", Bioengineering 2024-2025
NSF Ad hoc proposal reviewer 2024-2025
Topical advisory board member, Bioengineering 2021 – present
Review Editor, Editorial Board of Nanobiotechnology, Frontiers in Bioengineering and Biotechnology, Frontiers in Materials and Frontiers in Molecular Biosciences 2019 – present
Upper Peninsula Medical Conference 2023 planning committee member 2022 – 2023
Evaluation committee member, Health Research Institute, Michigan Tech 2021 – 2023
Panel reviewer, American Association of University Women fellowships 2021 – 2023
ADVANCE internal evaluation and advisory board (IEAB) member, Michigan Tech 2020 – 2023
Curriculum committee member, ME-EM, Michigan Tech 2019 – 2023
Guest Editor, Special Issue "Syntheses and Biomedical Applications of Functional Polymers", International Journal of Polymer Science 2019, 2021

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| Conference session chair, 3D printing and bioprinting session, MRS Spring Meeting | 2021 |
| Faculty search committee | 2020 – 2021 |
| Panel reviewer, NSF | 2020, 2021 |
| Conference session chair and abstract reviewer, BMES Annual Meeting | 2019 |
| Proposal Reviewer for Austrian Science Fund, Lise Meitner Program | 2018 |
| Book Proposal Reviewer for CRC Press | 2018 |
| Graduate Seminar Committee Member, Michigan Tech | 2017 – 2018 |
| Review committee member for undergraduate events: | |
| Michigan Tech Undergraduate Research Symposium | 2018 |
| Stevens Institute Senior Design Course Projects | 2013 – 2014 |
| Georgia Tech President's Undergraduate Research Award (PURA) | 2011 |
| Georgia Tech 6$^{th}$ Undergraduate Research Spring Symposium | 2011 |
| Co-chair, Applied Mechanics in MEMS and NEMS, ASME IMECE | 2014 |
| Symposium assistant, Materials Research Society Fall Meeting, Boston, MA | 2011 |
| Staff member, Woman's Leadership Conference, Georgia Tech, Atlanta, GA | 2009 |

Reviewer for:
Bioengineering, Composites Part A, Nanoscale, Applied Physics Letters, Biomedical Microdevices, Journal of the Mechanical Behavior of Biomedical Materials, ACS Biomaterials Science and Engineering, Micromachines, Materials, 3Biotech, Simulation, Journal of Micromechanics and Microengineering, Journal of Applied Physics, Journal of Physical Chemistry, International Journal of Thermal Sciences, Nanoscience and Nanotechnology Letters, Advances in Polymer Technology

## Publications

(Advisees' names are underlined)

(Superscript * denotes corresponding author)

(Superscript § denotes authors of equal contribution)

### Book Chapters

2. High-Performance Supercapacitors Based on 1-D Polymeric Nanocomposites M. Kasraie, T. Zheng, X. Wang, F. Su, and **P. P. S. S. Abadi**$^{*}$, *In One Dimensional Polymeric Nanocomposites: Synthesis to Emerging Applications, R. Gupta*, T. A. Nguyen (eds.), CRC (In press)

1. Nano-biomaterial Advances in Cardiovascular Tissue Engineering M. J. Hill, M. Mahmoudi, and **P. P. S. S. Abadi**$^{*}$, *In Cardiovascular Regenerative Medicine: Tissue Engineering and Clinical Applications, V. Serpooshan*, S. M. Wu (eds.), Springer Nature Switzerland AG (2019)

### Journal Papers

23. Experimental Characterization and Constitutive Modeling of Bulk Epoxy Under Thermo-oxidative Aging
B. Jewell, **P. P. S. S. Abadi**, and T. Sain, *Polymer Degradation and Stability* 234 (2025)

22. Carbon Nanotube as a Conductive Rheological Modifier for Additive Manufacturing of Carbon Fiber-Reinforced Epoxy
M. Kasraie, A. S. Krieg, A. C. Abbott, J. A. King, G. M. Odegard, J. W. Baur, and **P. P. S. S. Abadi**$^{*}$, *Composites Part B: Engineering* 282, 111583 (2024)

21. Conductive 3D Nano-biohybrid Systems Based on Densified Carbon Nanotube Forests and Living Cells
R. Bagheri, A. K. Ball, M. Kasraie, A. Chandra, X. Chen, I. Miskioglu, Z. Shan, and **P. P. S. S. Abadi**$^{*}$, *Jounral of Materials Research* 39, 137–149 (2024), https://doi.org/10.1557/s43578-023-01163-x

20. Editorial: Synthesis and Biomedical Applications of Functional Polymers
J. Ding, D. Li, J. Chen, C. Zhao, and **P. P. S. S. Abadi**, *International Journal of Polymer Science* (2021), DOI: 10.1155/2021/9763105

19. Additive manufacturing of conductive and high-strength epoxy-nanoclay-carbon nanotube composites
M. Kasraie, and **P. P. S. S. Abadi**[*], *Additive Manufacturing* 46, 102098 (2021)

18. Polyaniline-decorated Hyaluronic Acid-carbon Nanotube Hybrid Microfiber as a Flexible Supercapacitor Electrode Material
T. Zheng, X. Wang[*], Y. Liu, R. Bayaniahangar, H. Li, C. Lu, N. Xu, Z. Yao, D. Zhang[*], **P. P. S. S. Abadi**[*], *Carbon* 159, 65 (2020)

17. Nanomaterials for Bone Tissue Regeneration: Updates and Future Perspectives
M. J. Hill, B. Qi, R. Bayaniahangar, V. Araban, Z. Bakhtiary, A. Shaaji, M. R. Doschak, B. Goh, A. A. Zadpoor, M. B. Harris[*], **P.P.S.S. Abadi**[*], M. Mahmoudi*, *Nanomedicine* 14, 22 (2019)

16. Biocompatible Carbon Nanotube-based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications
T. Zheng[§], **P. P. S. S. Abadi**[§], J. Seo[§], B. H. Cha, B. Miccoli, Y. C. Li, K. Park, S. Park, S. J. Choi, R. Bayaniahangar, D. Zhang, S. H. Lee, C. K. Lee, A. Khademhosseini, and S. R. Shin, *ACS Applied Materials & Interfaces* 11 (23), 20615-20627 (2019)

15. Engineering of Mature Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes using Substrates with Multi-Scale Topography
**P. P. S. S. Abadi**, J. C. Garbern, S. Behzadi, M. J. Hill, J. S. Tresbeck, T. Heydari, M. R. Ejtehadi, N. Ahmed, E. Copley, H. Aghaverdi, R. T. Lee, O. C. Farokhzad, and M. Mahmoudi, *Advanced Functional Materials*, 28, 19 (2018)

14. pH-Responsive DNA Nanolinker Conjugated Hybrid Materials for Electrochemical Microactuator and Biosensor Applications
Y. A. Jodat, P. Lotfi, **P. P. S. S. Abadi**, J. Mun, J. Seo, E. Shin, S. M. Jung, C. K. Lee, and S. R. Shin, *ACS Applied Nano Materials* 1, 6630–6640 (2018)

13. Chaotic Printing: Using Chaos to Fabricate Densely Packed Micro- and Nanostructures at High Resolution and Speed
G. Trujillo-de Santiago, M. Moises Alvarez, M. Samandari, G. Prakash, G. Chandrabhatla, P. Ines Rellstab-Sanchez, B. Byambaa, **P. P. S. S. Abadi**, S. Mandla, R. K. Avery, A. Vallejo-Arroyo, A. Nasajpour, N. Annabi, Y. S. Zhang and A. Khademhosseini, *Materials Horizons* 5, 813–822 (2018)

12. Flat Cell Culturing Surface May Cause Misinterpretation of Cellular Uptake of Nanoparticles
S. Behzadi, N. M. Vatan, K. Lema, D. Nwaobasi, I. Zenkov, **P. P. S. S. Abadi**, D. Ahmad Khan, C. Corbo, H. Aghaverdi, O. C. Farokhzad, and M. Mahmoudi, *Advanced Biosystems* 2, 1800046 (2018)

11. Mechanical Behav of Carbon Nanotube Forests Grown with Plasma Enhanced Chemical Vapor Deposition: Pristine and Conformally-Coated
**P. P. S. S. Abadi**, M. R. Maschmann, S. L. Hodson, T. S. Fisher, J. W. Baur, S. Graham, and B. A. Cola, *ASME Journal of Engineering Materials and Technology* 139, 034502 (2017)

10. Reversible Tailoring of Mechanical Properties of Carbon Nanotube Forests by Immersing in Solvents
**P. P. S. S. Abadi**, M. R. Maschmann, S. M. Mortuza, S. Banerjee, J. W. Baur, S. Graham, and B. A. Cola, *CARBON* 69, 178 (2014)

9. Deformation Response of Conformally-coated Carbon Nanotube Forests
**P. P. S. S. Abadi**, M. R. Maschmann, J. W. Baur, S. Graham, and B. A. Cola, *Nanotechnology* 24, 475707 (2013)

8. Buckling-driven Delamination of Carbon Nanotube Forests
**P. P. S. S. Abadi**, S. B. Hutchens, J. R. Greer, B. A. Cola, and S. Graham, *Applied Physics Letters* 102, 223103 (2013)

7. Post-growth Microwave Treatment to Align Carbon Nanotubes

J. J. Nguyen, T. L. Bougher, **P. P. S. S. Abadi**, A. Sharma, S. Graham, and B. A. Cola, *Journal of Micro and Nano-Manufacturing* 1, 014501–1 (2013)

6. Carbon Nanotube Thermal Interfaces Enhanced with Sprayed on Nanoscale Polymer Coatings
J. H. Taphouse, T. L. Bougher, V. Singh, **P. P. S. S. Abadi**, S. Graham, and B. A. Cola, *Nanotechnology* 24, 105401 (2013)

5. Compressive Response of Vertically Aligned Carbon Nanotube Films Gleaned from in Situ Flat-punch Indentations
S. Pathak, N. Mohan, **P. P. S. S. Abadi**, S. Graham, B. A. Cola, and J. R. Greer, *Journal of Materials Research* 28, 984 (2013)

4. Effects of Morphology on the Micro-compression Response of Carbon Nanotube Forests
**P. P. S. S. Abadi**, S. B. Hutchens, J. R. Greer, B. A. Cola, and S. Graham, *Nanoscale* 4, 3373 (2012)

3. Higher Recovery and Better Energy Absorption at Faster Strain Rates in Carbon Nanotubes Bundles: an in-situ Study
S. Pathak, E. J. Lim, **P. P. S. S. Abadi**, B. A. Cola, S. Graham, and J. R. Greer, *ACS Nano* 6, 2189 (2012)

2. Numerical Modeling of the Performance of Thermal Interface Materials in the Form of Paste-coated Sheets
**P. P. S. S. Abadi** and D. D. L. Chung, *Journal of Electronic Materials* 40, 1490 (2011)

1. Factors that Govern the Performance of Thermal Interface Materials
**P. P. S. S. Abadi**, C. K. Leong, and D. D. L. Chung, *Journal of Electronic Materials* 38, 175 (2009)

## Conference Abstracts and Presentations

(Advisees' names are underlined)

(Superscript † denotes the presenting author)

23. Ultrastructural Observations in the Porcine Atrial Myocardium Following Pulsed Field Ablation
**P. P. S. S. Abadi**†, UP Medical Conference, Houghton, MI, 2023

22. Maturation of Cardiomyocyte using Electrical Stimulation
R. Bagheri†, Xinqian Chen, Zhila Dehghan, Sara Abasi, Anthony Guiseppi-Elie, Vadym Mochalin, Zhiying Shan, and **P. P. S. S. Abadi**, UP Medical Conference, Houghton, MI, 2022

21. 3D Nano-Biohybrid Carbon Nanotube Forest - Cardiomyocyte Structures
R. Bagheri†, Masoud Kasraie, Aparna Chandra, Xinqian Chen, Zhiying Shan, and **P. P. S. S. Abadi**, BMES annual Meeting, Orlando, FL, 2021

20. Additive Manufacturing of Conductive and High-Strength Epoxy-Nanoclay-Carbon Nanotube Composites
M. Kasraie and **P. P. S. S. Abadi**†, MRS Spring Meeting (virtual), 2021

19. Carbon nanotube forest-cardiomyocyte 3D nano-biohybrid system
R. Bagheri†, Masoud Kasraie, Aparna Chandra, Xinqian Chen, Zhiying Shan, and **P. P. S. S. Abadi**, ACS Upper Peninsula Meeting, Marquette, MI, 2021

18. Mechanical and Electrical Characteristics of Additively Manufactured Conductive Epoxy-Carbon Nanotube Composites
M. Kasraie† and **P. P. S. S. Abadi**, ASTM ICAM (virtual), 2020

17. 3D Printing of Conductive Epoxy-Carbon Nanotube Composite
M. Kasraie† and **P. P. S. S. Abadi**, TMS Annual meeting, San Diego, CA, 2020

16. Hyaluronic acid hydrogel supported carbon nanotube hybrid micro-biofiber as a biocompatible, electrochemical actuator
T. Zheng, **P. P. S. S. Abadi**†, J. Seo, B-H. Cha, B. Miccoli, Y-C. Li, S. Park, S-J. Choi, R. Bayaniahangar, D. Zhang, S-H. Lee, C.-K. Lee, A. Khademhosseini, and S.R. Shin, BMES, Philadelphia, PA, 2019

15. Engineering of mature human induced pluripotent stem cell-derived cardiomyocytes using sub-

strates with multi-scale topography
**P. P. S. S. Abadi**†, J. C. Garbern, S. Behzadi, M. J. Hill, J. S. Tresbeck, T. Heydari, M. R. Ejtehadi, N. Ahmed, E. Copley, H. Aghaverdi, R.T. Lee, O. C. Farokhzad, and M. Mahmoudi, BMES, Atlanta, GA, 2018

14. Mechanical behavior of carbon nanotube forests grown with chemical vapor deposition
**P. P. S. S. Abadi**†, M. R. Maschmann, S. L. Hodson, T. S. Fisher, J. W. Baur, S. Graham, and B. A. Cola, MRS Spring meeting, Phoenix, AZ, 2016

13. Compressive response of carbon nanotube forests: pristine, coated, and soaked
**P. P. S. S. Abadi**†, M.R. Maschmann, S.B. Hutchens, J.W. Baur, J.R. Greer, B.A. Cola, and S. Graham, ASME IMECE, San Diego, CA, 2013

12. Compressive response of carbon nanotube forests: pristine, coated, and soaked
**P. P. S. S. Abadi**†, M. R. Maschmann, S. B. Hutchens, J. W. Baur, J. R. Greer, B. A. Cola, and S. Graham, Gordon Research Conference on Nano-Mechanical Interfaces, Hong Kong, China, 2013

11. Compressive response of uncoated and coated carbon nanotube forests
**P. P. S. S. Abadi**†, S. B. Hutchens, J. R. Greer, M. R. Maschmann, J. W. Baur, B. A. Cola, and S. Graham, Materials Research Society Spring Meeting, San Francisco, CA, 2013

10. Effects of solvent-infiltration on the mechanical properties of carbon nanotube forests
**P. P. S. S. Abadi**†, M. R. Maschmann, J. W. Baur, B. A. Cola, ASME IMECE, Houston, TX, 2012

9. Mechanical behavior of conformally-coated carbon nanotube forests
**P. P. S. S. Abadi**†, M. R. Maschmann, J. W. Baur, B. A. Cola, and S. Graham, Georgia Tech Research and Innovation Conference, Atlanta, GA, 2012

8. Mechanical behavior of conformally coated carbon nanotube forests
**P. P. S. S. Abadi**†, B. A. Cola, and S. Graham, Materials Research Society fall meeting, Boston, MA, 2011

7. Effects of solvent-infiltration on the mechanical properties of carbon nanotube forests
**P. P. S. S. Abadi**†, M. R. Maschmann, J. W. Baur, B. A. Cola, ASME IMECE, Houston, TX, 2012

6. Mechanical behavior of conformally-coated carbon nanotube forests
**P. P. S. S. Abadi**†, M. R. Maschmann, J. W. Baur, B. A. Cola, and S. Graham, Society of Engineering Science $49^{\text{th}}$ ATM, Atlanta, GA, 2012

5. Visualization of indentation of carbon nanotube forests
**P. P. S. S. Abadi**†, J. H. Taphouse, S. Hutchens, J. R. Greer, B. A. Cola, and S. Graham, Georgia Tech Research and Innovation Conference, Atlanta, GA, 2011

4. Factors affecting the performance of foil-supported carbon nanotube forests as thermal interface materials
**P. P. S. S. Abadi**†, B. A. Cola, and S. Graham, Canadian-American-Mexican Graduate Student Physics Conference, Washington, DC, 2011

3. Visualization of indentation of carbon nanotube forests
**P. P. S. S. Abadi**†, J. H. Taphouse, S. Hutchens, J. R. Greer, B. A. Cola, and S. Graham, ASME Applied Mechanics and Materials Conference, Chicago, IL, 2011

2. Thermo-mechanical modeling of foil-supported carbon nanotube array interface materials
**P. P. S. S. Abadi**†, B. A. Cola, and S. Graham, American Physical Society March Meeting, Portland, OR, 2010

1. Experimental and numerical study of thermal interface material performance
**P. P. S. S. Abadi**†, C. Leong, and D. D. L. Chung, Advanced Technology Workshop on Thermal Management, Palo Alto, CA, 2008

**Seminars & Invited Presentations**

16. The 2nd International School on Fine-scale Processes: Facing with 4th Industrial Revolution Technologies, Organized by the Iran's top 5 Universities of Technology, (Webinar), 2022

15. Tarbiat Modares University, Tehran, Iran, (Webinar), 2022

14. Department of Chemistry, Michigan Tech, 2022

13. Department of Chemistry, Missouri University of Science and Technology, (Webinar), 2021

12. Department of Mechanical Engineering, University of Toledo, (Webinar), 2021

11. School of Engineering and Sciences, Tecnologico de Monterrey, Mexico, (Webinar), 2019

10. Department of Biomedical Engineering and Mechanics, Virginia Tech, 2019

9. Department of Materials Science and Engineering, Michigan Tech, 2018

8. Department of Biomedical Engineering, Michigan Tech, 2018

7. Department of Mechanical Engineering, University of Houston, 2017

6. Department of Mechanical Engineering, University at Buffalo, 2017

5. Department of Mechanical Engineering, Texas A&M University, 2016

4. Department of Mechanical Engineering-Engineering Mechanics, Michigan Tech, 2016

3. Department of Mechanical Engineering, University of Nevada Reno, 2016

2. Department of Mechanical Engineering, The City College of New York, January 2014

1. Department of Mechanical Engineering, Stevens Institute of Technology, 2013

**Teaching Experience**

Michigan Technological University

- Mechanics of Materials
- Biomechanics
- Intermediate Mechanics of Materials
- Special Topic: Materials for Sensors and Actuators in Medical Application

Stevens Institute of Technology

- Thermodynamics
- Mechanics of Solids

**Post-doctoral Advisees**

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|---|---|
| Dr. Michael Hill, Post-doctoral Fellow | 2017 – 2019 |

**Ph.D. Students**

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|---|---|
| Akash Gawde, Ph.D. Student (co-advised) | 2023 – present |
| Zohreh Salimi, Ph.D. Student (co-advised) | 2023 – present |
| Roya Bagheri, Ph.D. Student | 2020 – 2023 |
| Masoud Kasraie, Ph.D. Student | 2019 – 2022 |

**M.S. Students**

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|---|---|
| Sushrut Mali, M.S. Student | Summer 2024 |
| Pranav Sathaye, M.S. Student | 2023 – 2024 |
| Akash Gawde, M.S. Student | 2022 – 2023 |
| Christiana Strong, M.S. Student | 2021 – 2022 |
| Aparna Chandra, M.S. Student | 2020 – 2021 |
| Saurabh Karanke, M.S. Student | 2020 – 2021 |
| Onkar Prakash Salunkhe, M.S. Student | 2020 – 2021 |

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|---|---|---|
| | Grace Billman-Benveniste | Summer 2019 |
| Undergraduate Students | Neva Manas | 2021 – present |
| | Dominika Bobik | Spring 2020 |
| | Alicia Ball | 2017 – 2020 |
| | Daniel Woodall | 2018 – 2019 |
| | Josh Loiselle | 2017 – 2018 |
| | Shawn Maguire | Spring 2014 |
| | Kathleen Gamble | Spring 2014 |
| High School Interns | Corey Deans | Summer 2019 |
| | Davaughn Smith | Summer 2018 |

Professional Membership

American Heart Association
American Society of Mechanical Engineers
Materials Research Society
Biomedical Engineering Society
Society of Engineering Science