

Curriculum Vitae of Amir Mohammadi Nasab

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| CONTACT INFORMATION | Yale University Department of Mechanical Engineering and Material Science New haven, CT 06511 Office Location: <i>The Laboratory</i> | Webpage: http://www.amnasab.com ✉: amir.nasab@yale.edu ✉: amir.mns2004@gmail.com |
| | Google Scholar: http://scholar.google.com/AmirMohammadiNasab | |
| RESEARCH INTERESTS | Solid Mechanics: Adhesion Mechanics, Fracture Mechanics, and Mechanical Instability of Thin Structures. Materials Engineering: Multifunctional Composite Materials, and Biomimetic Materials. Thermophysics: Thermal Analysis, Thermo-economic Optimization, and Materials for Energy Applications. Soft Robotics: Actuation, Mechanisms, and Materials, using fundamental insights from the above. | |
| EDUCATION | University of Nevada, Reno (UNR), NV, USA – Ph.D., Department of Mechanical Engineering Fall 2014 - Spring 2019 GPA: 4.0/4.0. – Research and Teaching Assistant Fall 2014 - Spring 2019 – Lab Manager at Shan Research Group (SRG) May 2018 - May 2019 Iran University of Science and Technology (IUST), Tehran, Tehran, Iran – M.S., Department of Mechanical Engineering 2007 - 2010 Amirkabir University of Technology (AUT), Tehran, Tehran, Iran – B.S., Department of Aerospace Engineering 2003 - 2007 | |
| APPOINTMENT HELD | Postdoctoral Associate, The Laboratory, Department of Mechanical Engineering and Material Science, Yale University, New haven, CT, USA Sep. 2019 - Present Advisor: Prof. Rebecca Kramer-Bottiglio | |
| PEER REVIEWED PUBLICATIONS | Reverse Chronological Order; * Corresponding Author; ° Co-first Author. [7] X. Huang, K. Kumar, M. K. Jawed, A. Mohammadi Nasab , Z. Ye, W. Shan, and C. Majidi*, <i>Highly Dynamic Shape Memory Alloy Actuator for Fast Moving Soft Robots</i> , Advanced Materials Technologies (2019): 1800540. Link [6] X. Huang, K. Kumar, M. K. Jawed, A. Mohammadi Nasab , Z. Ye, W. Shan, and C. Majidi*, <i>Chasing Biomimetic Locomotion Speeds: Creating Untethered Soft Robots with Shape Memory Alloy Actuators</i> , Science Robotics , 3.25 (2018): 7557. Link [5] D. Wang, N. Hu, S. Huang, A. Mohammadi Nasab , K. Yang, M. C. Abate, X. Yu, L. Tan, W.L. Shan, and Z. Chen*, <i>Buckling and post-buckling of an elastic rod embedded in a bilayer matrix</i> , Extreme Mechanics Letters , 25 (2018): 1-6. Link [4] M. Tatari, A. Mohammadi Nasab , K.T. Turner*, W.L. Shan*, <i>Dynamically Tunable Dry Adhesion via Subsurface Stiffness Modulation</i> , Advanced Materials Interfaces , 5.18 (2018): 1800321. Link [3] A. Mohammadi Nasab °, A. Sabzehzar°, M. Tatari, C. Majidi, and W.L. Shan*, <i>A Soft Gripper with Rigidity Tunable Elastomer Strips as Ligaments</i> , Soft Robotics , 4.4 (2017): 411-420. Link [2] A. Mohammadi Nasab , D. Wang, Z. Chen, and W.L. Shan*, <i>Buckling shape transition of an embedded thin elastic rod after failure of surrounding elastic medium</i> , Extreme Mechanics Letters , 15 (2017): 51-56. Link | |

[1] Sepehr Sanaye*, and **A. Mohammadi Nasab**, *Modeling and optimizing a CHP system for natural gas pressure reduction plant*, **Energy**, 40.1 (2012): 358-369. [Link](#)

PRESENTATIONS **Conference Talks:**

[5] 5th International Symposium on the Mechanics of Composite and Multifunctional Materials, Reno, Nevada, USA 2018.

[4] International Mechanical Engineering Congress and Exposition (IMECE), Pittsburgh, Pennsylvania, USA 2018.

[3] International Mechanical Engineering Congress and Exposition (IMECE), Tampa, Florida, USA 2017.

[2] International Mechanical Engineering Congress and Exposition (IMECE), Phoenix, Arizona, USA 2016.

[1] The 53rd Annual Technical Meeting of the Society of Engineering Science (SES), College Park, Maryland, USA 2016.

Poster Presentations:

[1] Gordon Research Conference on Adhesion Science of, South Hadley, Massachusetts, USA 2016.

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| TEACHING | Instructor for “ System Analysis and Design (ME310) ”, UNR. | Summer 2019 |
| | Instructor for “ Introduction to Robotics (ME422/622) ”, UNR. | Spring 2018 |
| | Assistant of Instruction for “ Introduction to Robotics (ME422/622) ”, UNR. | 2014- 2016 |
| | Assistant of Instruction for “ Introduction to Mechanical Engineering II (ME151) ”, UNR. | Fall 2016 |
| | Guest Lecturer for “ Continuum Mechanics (ME720) ”, UNR. | Spring 2016 |
| | Instructor for “ Thermodynamics ” and “ Heat transfer ” courses to applicants of University Entrance Exam for MSc degree in Iran. | 2007-2014 |

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| HONORS AND AWARDS | Graduate Deans Merit Scholarship, UNR. | 2017-2018 |
| | Outstanding International Graduate Student Award, UNR. | 2017-2018 |
| | Outstanding International Graduate Student Award, UNR. | 2016-2017 |
| | International Graduate Student Scholarship, UNR. | 2016-2017 |
| | Douglas Bevans Mechanical Engineering Scholarship, UNR. | 2015-2016 |

PROFESSIONAL AFFILIATIONS AND SERVICES **Reviewer:**

Journal of Soft Robotics, IEEE SORO conference, and IEEE Transaction on Robotics (T-RO).

Memberships and Services:

American Society of Mechanical Engineers (ASME), Student Membership. 2016-Present

Society for the Advancement of Material and Process Engineering (SAMPE), Student Membership. 2017-2018

Materials Research Society (MRS), Student Membership. 2019-Present

REFERENCES Available upon request.

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