

- Led mechanical project team on developing technical equipment specifications, performing technical bid evaluations, reviewing equipment drawings, and providing construction support
- Developed and implemented new work process for meeting schedule commitments on projects

1991- 1995 NSF ERC for Computational Field Simulation Mississippi State, MS
Undergraduate Research Assistant (Advisors: Professor Bharat Soni, Professor Robert Moorhead)

- Wrote training manual for grid generation code
- Gave research presentation

Publications

Peer-Reviewed Journal Publications/Books Chapters

Italicized names are students

- [1] O.R. Junaid, **T. W. Stone**, J.H. Alexander, Experimental Characterization of Milling, Compaction and Sintering of Nanocrystalline FC-0205 Copper Steel Powder, *Global Journal of Researches in Engineering*, 18 (1) (2018)
- [2] M.J. Mahtabi, A. Yadollahi, M. Rahmati, **T. W. Stone**, Correlation Between Hardness and Loading Transformation Stress of Superelastic NiTi, *Arabian Journal for Science and Engineering*, (2018)
- [3] **T.W. Stone**, Y. Hammi, Chapter 13: Nickel Powder Metal Modeling Illustrating Atomistic-Continuum Friction Laws. *Integrated Computational Materials Engineering (ICME) for Metals: Concepts and Case Studies*, Ed. M.F. Horstemeyer, Wiley (2018) 447- 464.
- [4] Y. Hammi, **T.W. Stone**, H. Doude, L.A. Tucker, P.G. Allison, M.F. Horstemeyer, Chapter 6: Steel Powder Metal Modeling. *Integrated Computational Materials Engineering (ICME) for Metals: Concepts and Case Studies*, Ed. M.F. Horstemeyer, Wiley, (2018) 137-
- [5] H. Cho, Y. Hammi, D.K. Francis, **T.W. Stone**, Y. Mao, C. K. Sullivan, J. Wilbanks, R. Zelinka, M.F. Horstemeyer, Chapter 7: “Microstructure Sensitive, History Dependent Internal State Variable Plasticity-Damage Model for a Sequential Tubing Process. *Integrated Computational Materials Engineering (ICME) for Metals: Concepts and Case Studies*, Ed. M.F. Horstemeyer, Wiley (2018) 199-234.
- [6] M. N. Burcham, R. Escobar Jr., C.O. Yenusab, **T. W. Stone**, G.N. Berry, A.L. Schemmel, B.M. Watson, C.U. Verzyunvelt, Characterization and Failure Analysis of an Automotive Ball Joint, *Journal of Failure Analysis and Prevention* 17 (2) (2017) pp. 262-274.
- [7] Y. Hammi, **T.W. Stone**, B. Paliwal, P.G. Allison, M.F. Horstemeyer, Smooth Yield Surface Constitutive Modeling for Granular Materials, *ASME Journal of Engineering Materials and Technology* 139 (1) (2016)
- [8] M. Murphy, M. F. Horstemeyer, S. R. Gwaltney, **T.W. Stone**, M. LaPlaca, J. Liao, L. Williams, R. Prabhu, Nanomechanics of phospholipid bilayer failure under strip biaxial stretching using molecular dynamics. *Modeling and Simulation in Materials Science and Engineering* 24 (5) (2016) 055008.
- [9] W. Song, J. L. Woods, R. T. Davis, J. K. Offutt, E. P. Bellis, E. S. Handler, C. K. Sullivan, **T. W. Stone**, Failure Analysis and Simulation Evaluation of an Al 6061 Alloy Wheel Hub. *Journal of Failure Analysis and Prevention* 15 (4) (2015) 521-533.

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- [10] C. A. Walton, B. E. Nesbit, H. M. Candia, Z. A. Myers, W. R. Whittington, **T. W. Stone**, Failure analysis and mechanical performance evaluation of a cast aluminum hybrid-iron golf club hosel. *Journal of Failure Analysis and Prevention* 13 (5) (2013) 561-569.
- [11] **T.W. Stone**, M. F. Horstemeyer, Length Scale Effects of Friction in Particle Compaction Using Atomistic Simulations and a Friction Scaling Model. *Journal of Nanoparticle Research* 14 (2012) 1121.
- [12] E. Acar, Y. Hammi, P. G. Allison, **T. W. Stone**, M. F. Horstemeyer, Sensitivity and Uncertainty Analysis of Microstructure-Property Relations for Compacted Powder Metals. *Powder Metallurgy* 53 (2) (2010) 141-145.
- [13] **T. W. Stone**, M. F. Horstemeyer, Y. Hammi, P. M. Gullett, Contact and Friction of Single Crystal Nickel Nanoparticles using Molecular Dynamics. *Acta Materialia* 56 (14) (2008) 3577-3584.

Peer-Reviewed Journal Articles In Review

Italicized names are students

- [14] M.J. Mahtabi, **T.W. Stone**, N. Shamsaei, Load Sequence Effects and Variable Amplitude Fatigue of Superelastic NiTi, *International Journal of Mechanical Sciences* **ACCEPTED**

Peer-Reviewed Conference Proceedings

Italicized names are students

- [1] P.J. Hill, B. Kirkland, Y. Koshka, R. Sullivan, **T.W. Stone**, A Multidisciplinary Undergraduate Nanotechnology Education Program with Integrated Laboratory Experience and Outreach Activities, 2016 ASEE Annual Conference & Exposition Proceedings, New Orleans, June (2016)
- [2] P.J. Hill, Y. Koshka, **T.W. Stone**, B. Kirkland, R. Sullivan, A Multidisciplinary Undergraduate Nanotechnology Education Program with Integrated Laboratory Experience, 2015 ASEE Annual Conference & Exposition Proceedings, Seattle, June (2015)
- [3] **T. W. Stone**, K. SalemeRuiz, O. Asafa, Y. Hammi, Die Filling and Compaction Using a Multiscale Methodology. *Proceedings of the MPIF/APMI 2012 International Conference on Powder Metallurgy and Particulate Materials*. Nashville, USA (2012).
- [4] C. Hardin, **T. W. Stone**, P. M. Gullett, D. Ward, Atomistic Modeling of Aluminum Nanoparticle Interactions. Proceedings of the 2010 Materials Science and Technology Conference, Houston, USA (2010) 1195-1206.
- [5] Y. Hammi, **T.W. Stone**, P.G. Allison, M.F. Horstemeyer, "Fatigue Modeling of a Powder Metallurgy Main Bearing Cap." Proceedings of the 2010 SIMULIA Customer Conference, Providence, RI USA, May 25-27, 2010.
- [6] **T. W. Stone**, Y. Hammi, R. Carino, M. F. Horstemeyer, Modeling for Powder Metallurgy Component Design and Performance Prediction. *Proceedings of the MPIF/APMI 2009 International Conference on Powder Metallurgy and Particulate Materials*. Las Vegas, USA (2009)
- [7] **T. W. Stone**, H. I. Sanderow, E. Acar, Y. Hammi, K. N. Solanki, Process Modeling: Use of Uncertainty, Sensitivity and Optimization Techniques for Improved Understanding of Compaction Model Outputs. *Proceedings of the MPIF/APMI 2009 International Conference on Powder Metallurgy and Particulate Materials*. Las Vegas, USA (2009).

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- [8] **T. W. Stone**, L. Tucker, T. N. Williams, Y. Hammi, H. El Kadiri, M. F. Horstemeyer, Comparison of Density Measurement Techniques for Large P/M Components. *Proceedings of the World Congress on Powder Metallurgy and Particulate Materials*. Washington, DC USA (2008) 11-84 – 11-96.
- [9] Y. Hammi, L. Tucker, P. G. Allison, **T. W. Stone**, M. F. Horstemeyer, E. B. Marin, Modeling for Powder Metallurgy Component Design and Performance Prediction. *Proceedings of the World Congress on Powder Metallurgy and Particulate Materials*. Washington, DC USA (2008) 1-96 –1-110.
- [10] **T. Stone**, B. Jelinek, P. Gullett, S. Kim, M. Horstemeyer, Molecular Dynamics Simulations of the Compressive Behavior of α -Fe and Fe-Cu Nanocrystalline Materials. *Proceedings of the MPIF/APMI 2007 International Conference on Powder Metallurgy and Particulate Materials*. Denver, CO USA (2007)1-15 –1- 24.
- [11] **T. Stone**, L. Arias-Meza, Y. Hammi, M. F. Horstemeyer, Multiscale Modeling of Powder Metallurgy Processes. *Proceedings of the MPIF/APMI 2006 International Conference on Powder Metallurgy and Particulate Materials*. San Diego, USA (2006) 1-41 –1-54.
- [12] Y. Hammi, **T. Stone**, M. F. Horstemeyer, Constitutive Modeling for Powder Compaction and Densification. *Proceedings of the MPIF/APMI 2005 International Conference on Powder Metallurgy and Particulate Materials*. Montreal, Canada (2005) 1-38 –1-51.
- [13] Y. Hammi, **T. W. Stone**, M. F. Horstemeyer, Constitutive Modeling of Metal Powder Behavior. SAE 2005 World Congress & Exhibition, Transactions, *Journal of Materials & Manufacturing* 114 (5) (2005) 293–299.

Technical Reports

Italicized names are students

- [1] *K. Saleme Ruiz*, **T. W. Stone**, Implementation of a New Force Scheme into DEM for Brittle Polycrystalline Materials, Army Engineer Research & Development Center (2014) 1-17.
- [2] *K. Saleme Ruiz*, **T. W. Stone**, Computational Modeling of Brittle Polycrystalline Materials Based on Discrete Element Method, Army Engineer Research & Development Center (2013) 1-52.
- [3] *K. Saleme Ruiz*, **T. W. Stone**, Method for Digitally Generating the Microstructure for Brittle and Layered Biomaterials, Army Engineer Research & Development Center (2013) 1-30.
- [4] **T.W. Stone**, M.F. Horstemeyer, Y. Hammi, P. Allison, H. Grewal, E. Acar, L. Tucker, H. Brown, S.J. Park, and P.T. Wang, Process and Performance History Modeling of a Powder Metal Engine Bearing Cap Under Monotonic and Cyclic Loads, MSU.CAVS.CMD.2009-R0001, Center for Advanced Vehicular Systems prepared for USCAR (2009)

Peer-Reviewed Abstracts

Italicized names are students

- [1] **T.W. Stone**, *K. Sullivan*, R. Zelinka, “The Structure-Property Relationship of Cold-Drawn 1010 Steel Tubing”, The Minerals, Metals, & Materials Society (TMS) Conference, Orlando, FL, March 15-19, 2015.
- [2] *M.A. Murphy*, M. F. Horstemeyer, S.R. Gwaltney, **T.W. Stone**, M.C. LaPlaca, J. Liao, L. Williams, R. Prabhu, “Phospholipid Deformation Size Effects during Tensile Molecular Dynamics

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- Simulations,” Poster at Biomedical Engineering Society (BMES) 2015 Annual Meeting, scheduled for October 7-10, 2015 in Tampa, Florida
- [3] *M. A. Murphy*, M. F. Horstemeyer, S. R. Gwaltney, **T. W. Stone**, M. C. LaPlaca, J. Liao, et al., "The Effects of Stress State on the Mechanical Response and Failure of the Neuronal Phospholipid Bilayer: a Molecular Dynamics Study," Poster at 2015 Summer Biomechanics, Bioengineering, and Biotransport Conference (SB3C), Snowbird, UT, 2015, pp. 1288-1289.
- [4] *M. A. Murphy*, M. F. Horstemeyer, S. R. Gwaltney, **T. W. Stone**, M. C. LaPlaca, J. Liao, et al., "Validation of High Rate Strip Biaxial Tension Deformations of the Neuronal Phospholipid Bilayer Using Empirical Data," Poster at Summer Biomechanics, Bioengineering, and Biotransport Conference (SB3C), Snowbird, UT, 2015, pp. 1268-1269.
- [5] *M. A. Murphy*, S. Mun, M. F. Horstemeyer, S. R. Gwaltney, **T. W. Stone**, M. C. LaPlaca, et al., "Constructing Rudimentary Limit Curves For Neuronal Phospholipid Bilayer Failure and Theoretical Calcium Penetration," 2015 Summer Biomechanics, Bioengineering, and Biotransport Conference (SB3C), Snowbird, UT, 2015, pp. 1093-1094.
- [6] *K. Sullivan*, **T.W. Stone**, M.F. Horstemeyer, R. Zelinka, "The Structure-Property Relationship of Cold-Drawn 1010 Steel Tubing", The Minerals, Metals, & Materials Society (TMS) Conference, San Diego, CA, February 16-20, 2014.
- [7] *K. SalemeRuiz*, **T.W. Stone**, B. Devine, L. Walizer, W. Hodo, "Fracture Criterion for Brittle Polycrystalline Materials Based on a Discrete Element Method", Poster at The Minerals, Metals, & Materials Society (TMS) Conference, San Diego, CA, February 16-20, 2014.
- [8] *K. SalemeRuiz*, **T.W. Stone**, B. Devine, L. Walizer, W. Hodo, Structure-Property Correlations of a Digitally Represented Polycrystalline Microstructure based on Discrete Element Method, Material, Science, and Technology (MS&T) Conference, Montreal, Canada, October 27- 31, 2013.
- [9] **T.W. Stone**, Y. Hammi, Compaction Modeling using a Multiscale Methodology, Material, Science, and Technology (MS&T) Conference, Montreal, Canada, October 27- 31, 2013.
- [10] *C.K. Sullivan*, **T.W. Stone**, M.F. Horstemeyer, R. Zelinka, "Effect of Microstructure on the Mechanical Properties of Cold-Drawn 1010 Steel Tubing", Material, Science, and Technology (MS&T) Conference, Montreal, Canada, October 27- 31, 2013.
- [11] *T. McIntyre*, **T.W. Stone**, Y. Hammi, "Effect of Size and Processing Conditions on the Consolidation of Nanocrystalline Metal Powders", Material, Science, and Technology (MS&T) Conference, Montreal, Canada, October 27- 31, 2013.
- [12] *O. Asafa*, **T.W. Stone**, M.A. Tschopp, P.M. Gullett, M.F. Horstemeyer, "Molecular Dynamics Study of Frictional Effects on the Compaction of Metal Nanoparticles", Material, Science, and Technology (MS&T) Conference, Columbus, OH, October 16-20, 2011.
- [13] **T.W. Stone**, *O.Asafa*, *J.D. Stone*, Y. Hammi, "Deformation Mechanisms in Nanocrystalline Metals", Material, Science, and Technology (MS&T) Conference, Columbus, OH, October 16- 20, 2011.
- [14] **T.W. Stone**, *O.Asafa*, M.F. Horstemeyer, "Atomic-Scale Friction in Metal Nanoparticles using Molecular Dynamics Simulations", Material, Science, and Technology (MS&T) Conference, Houston, TX, October 17- 21, 2010.
-

**Grants
Received****Total Funded Projects: 12, \$7.8 million****National Science Foundation**

- Amount: \$174,980
- Title: BRIGE: Multiscale Modeling and Simulation of the Consolidation of Metallic Nanoparticles
- Dates: Sep. 2010 – Aug. 2015
- Role: Principal Investigator

MSU Office of Research and Economic Development

- Amount: \$2,000
- Title: The Intersection of Mentoring and Socialization: Increasing Faculty of Color Presence in Academia
- Dates: Nov. 2015 – Oct. 2016
- Role: Co- Principal Investigator

Predictive Design Technologies/ Plymouth Tube

- Amount: \$104,815
- Title: Innovative Process-Structure-Property Relations and Design
- Dates: Aug. 2012 – Jul. 2014
- Role: Principal Investigator

National Science Foundation

- Amount: \$200,000
- Title: NUE: Multifunctional Nanostructures for Integrated Electrical, Chemical, Mechanical, and Geological Applications: A Multidisciplinary Laboratory Education Program
- Dates: Jan. 2014 – Dec. 2016
- Role: Co-Principal Investigator

National Science Foundation

- Amount: \$287,944
- Title: REU: Physical Properties of Materials
- Dates: Mar. 2014 – Feb. 2017
- Role: Senior Personnel

Army Engineering Research and Development Center (ERDC)

- Amount: \$70,343
- Title: Discrete Element Modeling of Layered Bio-Materials
- Dates: Jul. 2012 – Jun. 2013
- Role: Principal Investigator

Department of Defense: Consortium for Energy, Environment, and Demilitarization (CEED)

- Amount: \$91,856
- Title: Nonlinear Mathematical Formulation for Discrete Particle Fracture
- Dates: Sep. 2013 – Sep. 2014
- Role: Child Principal Investigator

DoD-IVPPED Integrated Virtual Prototyping for Product Engineering & Design

- Amount: \$96,897
- Title: Nonlinear Mathematical Formulation for Discrete Particle Fracture
- Dates: Sep. 2014 – Sep. 2015
- Role: Child Principal Investigator

Department of Defense: Consortium for Energy, Environment, and Demilitarization (CEED)

- Amount: \$2.1 MM (\$420,000 per year)
- Title: Multiscale Cementitious Materials
- Dates: Feb. 2014 – Jan. 2019
- Role: Senior Investigator

Department of Defense: Computational Research for Engineering and Science – Ground Vehicle (CRES-GV)

- Amount: \$750,000 (\$250,000 per year for 3 years)
- Title: Discrete Element Method Software Development
- Dates: Nov 15 – Oct. 2018
- Role: Child Co-Principal Investigator

Department of Defense: SimBRS

- Amount: \$2 MM (\$400,000 per year for 5 years)
- Title: WD 64- Virtual Prototyping of Vehicle Systems, MMSF model for metals and polymers
- Dates: Feb. 2014 – Jan. 2019
- Role: Senior Investigator

Department of Defense: Army Research Laboratory

- Amount: \$2 MM (\$400,000 per year for 5 years)
- Title: Collaborative Research: : Transitioning Material Systems From Laboratory to Fabrication
Dates: Aug. 2015 – Jul. 2020
- Role: Senior Investigator

**Research
Presentations**

- “Material Characterization and Structure Property Relations in Process Modeling” at Additive Manufacturing Working Group Meeting, Mississippi State University, April 6, 2015.
- Compaction Modeling using a Multiscale Methodology, Material, Science, and Technology (MS&T) Conference Proceedings, Montreal, CA, October 27- 31, 2013.
- “Die Filling and Compaction Using a Multiscale Methodology,” International Conference on Powder Metallurgy and Particulate Materials, Nashville, TN, June 2012.
- “Molecular Dynamics Study of Frictional Effects on the Compaction of Metal Nanoparticles,” Material, Science, and Technology (MS&T) Conference, Columbus, OH, October 2011.
- “Multiscale Modeling of Nanoparticle Deformation,” Material, Science, and Technology (MS&T) Conference, Columbus, OH, October 2011.

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- “Molecular Dynamics Simulations of Nanoparticle Interactions,” Minority Faculty Development Workshop Poster Session, MIT, March 2010.
 - “Modeling for Powder Metallurgy Component Design and Life Cycle Prediction: Sintering,” International Conference on Powder Metallurgy and Particulate Materials, Las Vegas, NV, June 2009.
 - “Process Modeling: Use of Uncertainty, Sensitivity and Optimization Techniques for Improved Understanding of Compaction Model Outputs,” International Conference on Powder Metallurgy and Particulate Materials, Las Vegas, NV, June 2009.
 - “Molecular Dynamics Simulations of the Compressive Behavior of α -Fe and Fe-Cu Nanocrystalline Materials,” International Conference on Powder Metallurgy and Particulate Materials, Denver, Colorado, May 2007.
 - “Multiscale Modeling of P/M Processes,” International Conference on Powder Metallurgy and Particulate Materials, San Diego, California, June 2006.
-

Professional Affiliations

- Member of American Society of Mechanical Engineers (**ASME**) since 2006
 - Member of The Minerals, Metals & Materials Society (**TMS**) since 2010
 - Member of American Society of Engineering Education (**ASEE**)
 - Member of Society of Women Engineers (**SWE**)
 - National Society of Black Engineers (**NSBE**)
 - Phi Kappa Phi Honor Society
-

Service

- **Appointed Chair** of TMS Education Committee (2016-)
 - **Faculty Advisor**- Mechanical Engineering Minority Organization (2015-)
 - **Co-Chair**- MSU Council on Minority Affairs (2015-)
 - **Co-Organizer**-2018, 2019 MS&T Conferences, “Curricular Innovations and continuous Improvement of Academic Programs (and Satisfying ABET Along the Way): The Elizabeth Judson Memorial Symposium”
 - **Co-Organizer**-2014 TMS Conference “Mechanical Behavior Related to Interface Physics II Symposium”
 - **Reviewer**- Metallurgical and Materials Transactions A (2013-)
 - **Reviewer**- Journal of Nanoparticle Research (2012-)
 - **Committee Member** of TMS Powder Materials Committee (2012-)
 - **Committee Member** of TMS Nanomechanical Materials Behavior Committee (2012-)
 - **Education Representative**- TMS Materials Processing & Manufacturing Division (2012-2015)
 - **Session Co-Chair**, 2011 MS&T Conference: Multi Scale Modeling of Microstructure Deformation in Material Processing Symposium
 - **Session Chair**, TMS 2014: Characterization of Minerals, Metals and Materials Symposium, Characterization of Material Processing Session
 - **Session Chair**, TMS 2015: Characterization of Minerals, Metals and Materials Symposium, Characterization of Ferrous Metals Session
 - **Faculty Representative**-MSU President’s Commission on the Status of Women (2009-2012)
 - **Reviewer**- NSF BRIGE program (2011, 2013)
 - **Reviewer**- NSF CMMI (2010, 2011, 2013)
 - **Reviewer**- NSF MPS- DMR (2014)
-

- **Reviewer-** NSF Graduate Research Fellowship Program (2013, 2015, 2016)
- **Reviewer-** Oxford University Press (2013, 2014)

**Professional
& Civic
Presentations**

- 03/2014 Women of Color Summit Panel Session “A New Female Epidemic: The Burden of Greatness”, Mississippi State University
- 08/2013 NSF Annual BRIGE Grantee Meeting “Multiscale Modeling and Simulation of the Consolidation of Metallic Nanoparticles- Broadening Participation Highlights”, Washington, D.C.,
- 04/2012 Faculty Panel for Graduate/Professional Students, Mississippi State University
- 02/2012 Gender Series Lecture: “Women in Science, Technology, Engineering, and Math”, Mississippi State University
- 09/2010 MSU NSF GRFP Workshop, Mississippi State University
- 07/2010 IMAGE Summer Bridge Program “How to Be a Successful Student”, Mississippi State University
- 03/2010 New Faculty Panel “Balancing Multiple Roles as New Faculty”, Mississippi State University
- 03/2010 IMAGE Student Meeting “Graduate School vs. Industry”, “Mississippi State University
- 03/2010 Fellowship Workshop “Reflections from a Former NSF Graduate Fellow”, Mississippi State University
- 01/2010 Annual Winter Scholar Symposium, Alliance for Graduate Education in Mississippi “Prepared for the Professoriate: Was I Really?,” University of Southern Mississippi
- 07/2009 WISE Summer Camp “Who Wants to Be an Engineer?” Mississippi State University

**Honors and
Recognition**

- 2012 Faculty Appreciation Award for Enhancing Diversity, James Worth Bagley College of Engineering, Mississippi State University
- 2010 The Alliance for Graduate Education in Mississippi (AGEM) Graduate Award
- 2010 Faculty Appreciation Award for Enhancing Diversity, James Worth Bagley College of Engineering, Mississippi State University
- 2009 Women of Color Magazine and IBM Corporation Technology Rising Star Award
- 2009 Stem Women’s Walk of Fame Honoree, MSU Studio School Summer Camp
- 2009 Engineering Research Support Staff Award, Mississippi State University
- 2006 Engineering Graduate Student Research Award, Mississippi State University
- 2005 National Science Foundation Graduate Research Fellowship Award
- 2004 Graduate Research Assistant Fellowship, Center for Advanced Vehicular Systems, Mississippi State University
- 2004 Hearin Hess Graduate Scholarship, Mississippi State University
- 2001 Dow Special Recognition Award(for project cost savings)
- 1998 Dow Project Excellence Award (EPT Project)

MentoringCurrent students

- Ph.D. advisor of Mr. Micael Edwards (Mechanical Engineering, Dec 2018)
- M.S. non-thesis advisor of Mr. Azizi Turner (Mechanical Engineering, Aug 2018)
- M.S. non-thesis advisor of Mr. Dakota Jordan (Mechanical Engineering, Dec 2018)
- Undergraduate research advisor of Mr. Tyrone McDonald (Mechanical Engineering)
- Ph.D. committee of Mr. Daniel Johnson (Mechanical Engineering)
- Ph.D. committee of Mr. Michael Murphy (Biomedical Engineering)
- Ph.D. committee of Mr. Clay Goodman (Civil Engineering)
- Ph.D. committee of Mr. Brad Hansen (Civil Engineering)
- Ph.D. committee of Mr. Javier Osorio-Carrasquillo (Civil Engineering)

Former students

- Ph.D. co-advisor of Mr. Mohammad Javad Mahtabi Oghani (Mechanical Engineering, Aug. 2017)
- Ph.D. advisor of Ms. Katerine SalemeRuiz (Computational Engineering, Aug. 2016)
- M.S. thesis advisor of Mr. Caleb Yenusah (Mechanical Engineering, Dec 2017)
- M.S. thesis advisor of Mr. David McInnis (Mechanical Engineering, Dec 2017)
- M.S. thesis co-advisor of Mr. Benjamin Rutherford (Mechanical Engineering, May 2017)
- M.S. thesis co-advisor of Mr. Alexander Johnson (Mechanical Engineering, May 2017)
- M.S. thesis advisor of Mr. Olelakan Junaid (Mechanical Engineering, Aug. 2016)
- M.S. thesis advisor of Mr. Charles Sullivan (Mechanical Engineering, Aug. 2014)
- M.S. thesis advisor of Mr. Olufemi Asafa (Mechanical Engineering, Aug. 2012)
- M.S. non-thesis advisor of Mr. Trevor Smith (Mechanical Engineering, Dec. 2017)
- M.S. non-thesis advisor of Mr. Thomas McIntyre (Mechanical Engineering, May 2017)
- M.S. non-thesis advisor of Ms. Lana Turner (Mechanical Engineering, Aug. 2013)
- Undergraduate research advisor of Mr. Zachary Collins (Mechanical Engineering)
- Undergraduate research advisor of Ms. Breanna Pittman (Mechanical Engineering)
- Undergraduate research advisor of Mr. Patrick King (Mechanical Engineering)
- Undergraduate research advisor of Mr. Cameron L. Hardin (Mechanical Engineering, Dec. 2011)
- Undergraduate research advisor of Ms. Palara Grant (Mechanical Engineering)
- Undergraduate research advisor of Ms. Ayesha Hicks (Chemical Engineering)
- M.S. thesis committee of Mr. Clay Goodman (Civil Engineering)
- M.S. thesis committee of Mr. Brad Hansen (Civil Engineering)
- M.S. thesis committee of Ms. Megan Burcham (Mechanical Engineering, May 2016)
- M.S. thesis committee of Mr. Michael Murphy (Biomedical Engineering, May 2014)
- Ph.D. dissertation committee of Mr. Aref Yadollahi (Mechanical Engineering)
- Ph.D. dissertation committee of Mr. Josef Cobb (Mechanical Engineering, May 2016)
- Ph.D. dissertation committee of Mr. William Lawrimore (Mechanical Engineering, May 2016)
- Ph.D. dissertation committee of Mr. Chris Walton (Mechanical Engineering, Dec. 2013)
- Ph.D. dissertation committee of Ms. Marta Guerra (Physics, May 2010)

**Teaching
Experience**

- ME 3423- Mechanics of Machinery (Junior/Senior Undergraduate students)
- EM 8203- Applied Elasticity (Graduate/Distance students)

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- ME 4123/6123- Failure of Engineering Materials (Graduate/Senior Undergraduate/Distance students)
 - CHE 1001- Nano Exposed Seminar (Freshman Undergraduate students)
-

**Professional
Workshops
Attended**

- August 5-7, 2015, Large-scale Atomic/Molecular Massively Parallel Simulator (LAMMPS) Users' Workshop and Symposium, Albuquerque, NM
- September 2015, NSF Minority Faculty Development Workshop —21st Century Mindsets & Strategies for Career Advancement (NSF travel grant, Washington, DC
- May 30- June 1, 2012 NSF Summer Institute Short Course on Materiomics—Merging Biology and Engineering in Multiscale Structures and Materials (NSF travel grant), Massachusetts Institute of Technology
- July 19-21, 2011, “How to Engineer Engineering Education” Teaching Workshop, Bucknell University
- March 2010, NSF Career Proposal Writing Workshop (NSF travel grant), Georgia Institute of Technology
- March 2010, NSF Minority Faculty Development Workshop (NSF travel grant), Massachusetts Institute of Technology
- May 27 – 30, 2009, NSF Summer Institute Short Course on Multiscale Science Based-Modeling and Simulation and Experimental Validation on Enabling Materials (NSF travel grant), Northwestern University