

# DANIAL FAGHIHI

Department of Mechanical and Aerospace Engineering  
The University at Buffalo  
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## RESEARCH INTERESTS

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- Multiscale (discrete-to-continuum) modeling
- Theoretical and computational nonlocal continuum mechanics
- Data-driven predictive modeling
- Bayesian methods for model validation and uncertainty quantification
- Advanced manufacturing of materials
- Biomechanical modeling of tumor growth and treatment

## WORK EXPERIENCE

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<b>Assistant Professor</b> Department of Mechanical and Aerospace Engineering The University at Buffalo, Buffalo, NY	2019 – present
<b>Research Associate</b> Oden Institute for Computational Engineering and Sciences The University of Texas at Austin, Austin, TX	2015 – 2019
<b>Senior Instructor</b> Department of Biomedical Engineering The University of Texas at Austin, Austin, TX	2018 – 2019
<b>Instructor</b> Department of Civil and Environmental Engineering University of Texas at San Antonio, San Antonio, TX	2016
<b>Instructor</b> Department of Aerospace Engineering and Engineering Mechanics The University of Texas at Austin, Austin, TX	2013

## EDUCATION

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<b>The University of Texas at Austin</b> , Austin, TX Oden Institute for Computational Engineering and Sciences Postdoc. in Computational Mathematics	2013 – 2015
<ul style="list-style-type: none"><li>• Projects: <i>Computational Bayesian methods for model calibration, selection, and validation with quantified uncertainty</i></li><li>• Advisor: J. Tinsley Oden</li></ul>	

**Louisiana State University**, Baton Rouge, LA 2008 – 2012  
Department of Civil and Environmental Engineering  
Ph.D. in Structural Engineering and Mechanics

- Dissertation: *Strain gradient crystal plasticity models with energetic and dissipative length and time scales*
- Advisor: George Z. Voyiadjis

**Sharif University of Technology**, IRAN 2005 – 2008  
Department of Civil and Environmental Engineering  
M.S. in Geotechnical Engineering

- Thesis: *Coupled fluid flow and deformation modeling of porous media: Application to hydraulic fracturing in a rock-fill dam*
- Advisor: S. Mohsen Haeri

**K.N.Toosi University of Technology**, IRAN 2000 – 2005  
Department of Civil and Environmental Engineering  
B.S. in Civil Engineering

## BOOK CHAPTERS

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1. Oden, J. T., Babuska, I., and **Faghihi, D.** (2017). Predictive Computational Science: Computer Predictions in the Presence of Uncertainty. In *Encyclopedia of Computational Mechanics*. John Wiley & Sons.
2. Ravi-Chandar, K., **Faghihi, D.**, and Oden, J. T. (2014). A System for Monitoring Damage in Composite Materials Using Statistical Calibrations and Bayesian Model Selection. In *Dynamic Data Driven Applications Systems (DDDAS)*. Springer Berlin Heidelberg.
3. Voyiadjis, G. Z. and **Faghihi, D.** (2013). The Effect of Temperature on Interfacial Gradient Plasticity in Metallic Thin Films. In *Advanced Materials Modelling for Structures*. Springer-Verlag Berlin Heidelberg.
4. Voyiadjis, G.Z. and **Faghihi, D.** (2012), Microstructural Characterization of Metals Using Nano-indentation. In *Handbook of Micromechanics and Nanomechanics*. Pan Stanford Publication Co.

## REFERRED JOURNAL ARTICLES

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1. **Faghihi, D.**, Feng, X., Lima, T., Oden, J. T., Yankeelov, T. E. (submitted). A Coupled Mass Transport and Deformation Theory of Multi-constituent Tumor Growth. *Journal of the Mechanics and Physics of Solids*.
2. **Faghihi, D.**, Lima, E., Phillely, R., Yang, J., Yankeelov, T. E. (submitted). Stochastic Calibration of a Multiscale Agent-Based Model of Tumor Growth Using Time-Resolved Microscopy. *IEEE Transactions on Biomedical Engineering*.
3. **Faghihi, D.**, Carey, V., Michoski, C., Hager, R., Janhunen, S., Chang, C. S., and Moser, R. D. (in review). Moment Preserving Constrained Resampling with Applications to Particle-in-Cell Methods. *Journal of Computational Physics*.
4. Scarabosio, L., Wohlmuth, B., Oden, J. T., **Faghihi, D.** (2019). Goal-Oriented Adaptive Modeling of Random Heterogeneous Media and Model-Based Multilevel Monte Carlo Methods. *Journal of Computers and Mathematics with Applications*.

5. **Faghihi, D.**, Sarkar, S., Naderi, M., Hackel, L., and Iyyer, N. (2018). A Probabilistic Design Method for Fatigue Life of Metallic Component. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems - Part B: Mechanical Engineering*.
6. Oden, J. T., Lima, E.A., Almeida, R.C., Feng, Y., Rylander, M.N., Fuentes, D., **Faghihi, D.**, Rahman, M.M., DeWitt, M., Gadde, M. and Zhou, J.C. (2016). Toward Predictive Multiscale Modeling of Vascular Tumor Growth. *Archives of Computational Methods in Engineering*.
7. Oden, J. T., Farrell, K., **Faghihi, D.**, (2015). Estimation of Error in Observables in Coarse-Grained Models of Atomistic Systems. *Advanced Modeling and Simulation in Engineering Sciences*.
8. Farrell, K., Oden, J. T., **Faghihi, D.**, (2015). A Bayesian Framework for Adaptive Selection, Calibration, and Validation of Coarse-grained Models of Atomistic Systems. *Journal of Computational Physics*.
9. Prudencio, E. E., Bauman, P. T., Williams, S. V., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2014). Real-time Inference of Stochastic Damage in Composite Materials. *Composites Part B: Engineering*.
10. Prudencio, E. E., Bauman, P. T., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2014). A computational framework for dynamic data-driven material damage control, based on Bayesian inference and model selection. *International Journal for Numerical Methods in Engineering*.
11. Voyiadjis, G. Z. and **Faghihi, D.** (2014). Overview of Enhanced Continuum Theories for Thermal and Mechanical Responses of the Micro-systems in the Fast-Transient Process. *Journal of Engineering Materials and Technology*.
12. Voyiadjis, G. Z., **Faghihi, D.**, Zhang, Y., (2014). A Theory for Grain Boundaries with Strain-Gradient Plasticity. *International Journal of Solids and Structures*.
13. **Faghihi, D.**, and Voyiadjis, G. Z. (2014). A Thermodynamic Consistent Model for Coupled Strain-Gradient Plasticity with Temperature. *Journal of Engineering Materials and Technology*.
14. **Faghihi, D.**, Voyiadjis, G. Z., Park, T. (2013). Coupled Thermo-Mechanical Modeling of Small Volume FCC Metals. *Journal of Engineering Materials and Technology*.
15. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Thermo-Mechanical Strain Gradient Plasticity with Energetic and Dissipative Length Scales. *International Journal of Plasticity*.
16. **Faghihi, D.**; Voyiadjis, G. Z. (2012). Size Effects and Length Scales in Nano-Indentation for Body-Centered Cubic Materials with Application to Iron. Proceedings of the Institution of Mechanical Engineers, Part N: *Journal of Nanoengineering and Nanosystems*.
17. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Localization in Stainless Steel using Microstructural Based Viscoplastic Model. *International Journal of Impact Engineering*.
18. Voyiadjis, G. Z., Almasri, A. H., **Faghihi, D.**, and Palazotto, A. N. (2012). Analytical Solution for Shear Bands in Cold-Rolled 1018 Steel. *Journal of the Mechanical Behavior of Materials*.
19. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Gradient Plasticity for Thermo-Mechanical Processes in Metals with Length and Time Scales. *Philosophical Magazine*.

20. **Faghihi, D.**, and Voyiadjis, G. Z. (2012). Thermal and Mechanical Responses of BCC Metals to the Fast-Transient Process in Small Volumes. *Journal of Nanomechanics and Micromechanics*.
21. Voyiadjis, G. Z., and **Faghihi, D.** (2012); The Effect of Temperature on Interfacial Gradient Plasticity in Metallic Thin Films. *Journal of Surfaces and Interfaces of Materials*.
22. **Faghihi, D.**, and Voyiadjis, G. Z. (2011); Determination of Nano-indentation Size Effects and Variable Material Intrinsic Length Scale for Body-Centered Cubic Metals. *Mechanics of Materials* 44: 189-211.
23. Voyiadjis, G. Z. and **Faghihi, D.** (2011). Variable (Intrinsic) Material Length Scale for Face-Centered Cubic Metals using Nano-Indentation. Proceedings of the Institution of Mechanical Engineers, Part: N *Journal of Nanoengineering and Nanosystems*.
24. Voyiadjis, G. Z., **Faghihi, D.**, and Zhang, C. (2011). Analytical and Experimental Determination of Rate and Temperature Dependent Length Scales using Nano-Indentation Experiments. *Journal of Nanomechanics and Micromechanics*.
25. Voyiadjis, G. Z., Deliktas, B., **Faghihi, D.**, and Lodygowski, A. (2010). Friction Coefficient Evaluation using Physically Based Viscoplasticity Model at the Contact Region During High Velocity Sliding. *Acta Mechanica*.

## TECHNICAL REPORTS

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1. **Faghihi, D.**, Oden, J. T., Feng, X., Lima, E., and Yankeelov, T. E. (2018), A Phase-Field Theory for Multi-constituent Diffusion and Deformation: Application to Avascular Tumor Growth, ICES report 18-09, *Institute for Computational Engineering and Sciences, The University of Texas at Austin, Austin, TX*.
2. Moser, R., Carey, V., Michoski, C., and **Faghihi, D.** (2017), Partnership for Edge Physics (EPSI), DOE Report, *U.S. Department of Energy Office of Scientific and Technical Information*.
3. Oden, J. T., Feng, Y., Rylander, M. N., Fuentes, D., Almeida, R., Lima, E., and **Faghihi, D.** (2015), Toward Predictive Multiscale Modeling of Vascular tumor Growth: Computational and Experimental Oncology for Tumor Prediction, ICES report 15-10, *Institute for Computational Engineering and Sciences, The University of Texas at Austin, Austin, TX*.
4. Bauman, P.T., **Faghihi, D.**, Oden, J. T., Prudencio E.E., Williams, S.V., and Ravi-Chandar (2013), Development of a Stochastic Dynamic Data-Driven System for Prediction of Material Damage, AFOSR report, *The Air Force Office of Scientific Research*.
5. Voyiadjis, G.Z., Cai, S., Alshibly, K., **Faghihi, D.** (2011), Integral Abutment Bridge for Louisiana's Soft and Stiff Soils: Caminda Bay Bridge, LTRC report, *Louisiana Transportation Research Center, Baton Rouge, LA*.

## CONFERENCE PRESENTATIONS

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1. **Faghihi, D.**, Lima, E., Feng, X., Oden, J.T., Yankeelov, T. A Coupled Phase-Field and Deformation Theory of Multi-constituent Tumor Growth. *15th U.S. National Congress on Computational Mechanics (USNCCM XV). Symposium: Advances in Computational Biomechanics*. August 2019, Austin, TX.
2. **Faghihi, D.**, Farrell K., and Oden, J.T. Estimation of Error for Coarse-Grained Models of Atomic Systems. *13th US National Congress on Computational Mechanics (USNCCM*

XIII). *Symposium: Applications of Error Estimation and Model Adaptation in Computational Mechanics*. July 2015, San Diego, CA.

3. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., Real-Time Monitoring of Stochastic Damage in Composite Materials *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2014): Symposium: Damage and Failure of Composites*. November 2014, Montreal, QC, Canada
4. **Faghihi, D.**, Voyiadjis, G.Z., Thermo-Mechanical Responses of Metallic Thin Films on the Fast Transient Process. *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2014): Symposium: Modeling and experimental characterization for the behavior of the micro/nanostructured thin films*. November 2014, Montreal, QC, Canada
5. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., A Stochastic Framework for Material Damage Control in Composite Materials, Based on Bayesian Inference and Model Selection *American Society of Civil Engineering (ASCE), Engineering Mechanics Institute Conference (EMI 2014): Computational Methods and Application for Solid and Structural Mechanics*. August 2014, Hamilton, ON, Canada
6. **Faghihi, D.**, Voyiadjis, G.Z., Thermal and Mechanical Modeling of Micro-scale Materials Using Enhanced Continuum Theories. *American Society of Civil Engineering (ASCE), Engineering Mechanics Institute Conference (EMI 2014): Multi-scale Behaviour of Damage and Failure Mechanics*. August 2014, Hamilton, ON, Canada
7. **Faghihi, D.**, Prudencio E.E., Bauman, P.T., Ravi-Chandar, K., and Oden, J.T., Experimental and Computational Characterization of Damage in Composite Materials *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2013): Effect of Defects, Damage Tolerance, and Repair of Composites*. November 2013, San Diego, CA.
8. **Faghihi, D.**, Voyiadjis, G.Z., A Gradient-Enhanced Continuum Model for Size and Rate Effects in Thin Metal Film-Substrate Systems. *American Society of Mechanical Engineering (ASME), International Mechanical Engineering Congress and Exposition (IMECE 2013): MEMS and MEMS packaging*. November 2013, San Diego, CA.
9. **Faghihi, D.** and Voyiadjis, G.Z., Thermo – Mechanical Responses of Metals in Small Scale and Fast Transient Process. *Society of Engineering Science: 50th Annual Technical Meeting (SES 2013) and ASME-AMD Annual Summer Meeting*. July 2013, Brown University, Providence, RI.
10. **Faghihi, D.**, A Thermo-Mechanical Gradient Theory with Time and Length Scales. *Multi-scale Modeling Group : Institute for Computational Engineering and Science (ICES), University of Texas at Austin*. April , 2013, Austin, TX.
11. **Faghihi, D.**, Microstructure to Macro-scale using Enhanced Continuum Theories. *Institute for Computational Engineering and Science (ICES), University of Texas at Austin*. January , 2013, Austin, TX.
12. **Faghihi, D.**, Voyiadjis, G.Z., Coupled Thermo–Mechanical Responses of Metals Crystal Structure using Strain Gradient Plasticity. *American Society of Mechanical Engineering (ASME): International Mechanical Engineering Congress and Exposition (IMECE 2012)*. November 2012, Houston, TX.

13. **Faghihi, D.**, Voyiadjis, G.Z., Multiscale Modeling of the Size and Interface Effects in Thin Metal Film-Substrate Systems in the Fast Transient Process. *American Society of Mechanical Engineering (ASME): International Mechanical Engineering Congress and Exposition (IMECE 2012)*. November 2012, Houston, TX.
14. **Faghihi, D.**, Voyiadjis, G.Z., Thermo – Mechanical Responses of Small Volume Metals on The Fast – Transient Process. *Society of Engineering Science: 49th Annual Technical Meeting (SES 2012)*. October 2012, Georgia Tech, Atlanta, GA.
15. **Faghihi, D.**, Voyiadjis, G.Z., Strain Gradient Plasticity with Energetic and Dissipative Length Scales. *2012 Joint Conference of the Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*. June 2012, University of Notre Dame, South Bend, IN.

## INVITED SEMINARS AND COLLOQUIA

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1. **Faghihi, D.**, Data-driven Multiscale Modeling of Materials. *The University of Texas at Arlington Research Institute (UTARI)*. January 2019, Fort Worth, TX.
2. **Faghihi, D.**, Predictive Multiscale Modeling of Materials and Structures. *Department of Civil, Architectural and Environmental Engineering, The University of Texas at Austin*. March 2018, Austin, TX.
3. **Faghihi, D.**, Data-enabled Predictive Modeling of Advanced Manufacturing of Materials. *Department of Mechanical and Aerospace Engineering, University at Buffalo*. February 2018, Buffalo, NY.
4. **Faghihi, D.**, Oden, J.T., A Bayesian Framework for Adaptive Model Selection, Validation, and for Prediction in Presence of Uncertainties. *Department of Energy: ASCR Applied Mathematics Principal Investigators Meeting*. September 2017, Rockville, MD.
5. **Faghihi, D.**, Predictive Computational Material Engineering. *ExxonMobil Research and Engineering Company, Corporate Strategic Research*. July 2015, Annandale, NJ.
6. **Faghihi, D.**, Predictive Computational Material Modeling: Theories and Applications. *Department of Civil and Environmental Engineering, University of Southern California*. March 2015, Los Angeles, CA.
7. **Faghihi, D.**, Predictive Computational Material Modeling: Theory, Computation, and Uncertainty Quantification. *Department of Mechanical Engineering, Mississippi State University*. March 2015, MS.
8. **Faghihi, D.**, Predictive Computational Material Modeling: Theory, Computation, and Uncertainty Quantification. *Department of Civil and Environmental Engineering, Sharif University of Technology*. January 2015, Tehran, IRAN.
9. **Faghihi, D.**, An Enhanced Continuum Theory for Thermo-Mechanical Responses of Micro-scale Materials. *Department of Civil and Environmental Engineering, Sharif University of Technology*. July 2014, Tehran, IRAN.
10. **Faghihi, D.**, Micro-structure to Macro-scale using Enhanced Continuum Theories. *Civil Engineering Department, Michigan State University*. April 2014, East Lansing, MI.
11. **Faghihi, D.**, Generalized Continuum Theories: bridge between micro and macro simulation *Mechanical Engineering Department, California State University, Los Angeles*. April 2014, Los Angeles, LA.

12. **Faghihi, D.**, Micro-structure to Macro-scale using Enhanced Continuum Theories. *Mechanical Engineering Department, University of Massachusetts Dartmouth*. April 2014, North Dartmouth, MA.
13. **Faghihi, D.**, Microstructure to Macro-scale using Enhanced Continuum Theories. *Civil Engineering Department, New Mexico State University*. November 2013, Las Cruces, NM.

## CONFERENCE PUBLICATIONS

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1. Lima, E. A., **Faghihi, D.**, Philley, R., Yang, J., Virostko, J., Yankeelov, T. E. (2019). Stochastic calibration of an agent-based tumor growth model using time-resolved microscopy data. *AACR Annual Meeting 2019*.
2. Prudencio, E. E., Bauman, P. T., Williams, S. V., **Faghihi, D.**, Ravi-Chandar, K., Oden, J. T. (2013). A Dynamic Data Driven Application System for Real-time Monitoring of Stochastic Damage. *Procedia Computer Science*.
3. Voyiadjis, G. Z., **Faghihi, D.**, and Alshibli, K. (2015). Finite Element Analysis of Integral Abutment Bridge Substructure in Louisiana. *94th Transportation Research Board Annual Meeting*.
4. Voyiadjis, G. Z., and **Faghihi, D.** (2012). Microstructure to Macro-Scale Using Gradient Plasticity with Temperature and Rate Dependent Length Scale. *Procedia IUTAM*, 3, 205-227.
5. Voyiadjis, G. Z., and **Faghihi, D.**, (2012). Thermo-Mechanical Responses of Metals on Fast-Transient Process in Small Volume. *Proceedings of the International Congresses on Theoretical and Applied Mechanics (ICTAM)*.
6. Voyiadjis, G. Z., and **Faghihi, D.**, (2012). Coupled Viscoplastic Damage Model and Simulation for Metals and Composites. *Proceedings of International conference on Damage Mechanics (ICDM)*.
7. Haeri, S., **Faghihi, D.** (2009). A Comparison Between Monitoring and Analysis of Taleghan Rockfill Dam During Construction. *Proceedings of 17th International conference on Soil Mechanics and Geotechnical Engineering, Egypt*.
8. Jafarzade, F., **Faghihi, D.**, Ehsani, M. (2008). Numerical Simulation of Shaking Table Tests on Dynamic Response of Dry Sand. *Proceedings of 14th World Conference on Earthquake Engineering (14WCEE)*.
9. Haeri, S., **Faghihi, D.** (2008). Predicting Hydraulic Fracturing in Hyttejuvet Dam. *Proceedings of 6th International Conference on Case Histories in Geotechnical Engineering: Symposium in Honor of Professor James K. Mitchell, University of Missouri*.
10. Haeri, S., **Faghihi, D.** (2008). Study on the Behavior of Earth Dam During Construction Process. *Proceedings of 4th national conference of civil engineering, Iran*.

## GRADUATE STUDENTS

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University at Buffalo, Buffalo, NY

- Jingye (Kira) Tan 2019 – present  
 Ph.D. in Mechanical and Aerospace Engineering  
*Control under uncertainty of metal additive manufacturing process*

## UNDERGRADUATE STUDENTS

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### The University of Texas at Austin, Austin, TX

- Russell Philly 2017 – 2019  
Aerospace Engineering  
*Bayesian calibration of a multiscale agent-based model of tumor growth using in vitro measurements*
- Brandon Hardy 2019  
Biomedical Engineering  
*Validated deep learning surrogate modeling of tumor growth*
- Numan Gilani 2019  
Electrical Engineering  
*Validated deep learning surrogate modeling of tumor growth*

## TEACHING EXPERIENCE

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### The University of Texas at Austin, Austin, TX

2018 – 2019

Department of Biomedical Engineering

- Numerical Methods in Biomedical Engineering
- Introduction to Computing
- Network Analysis in Biomedical Engineering

### University of Texas at San Antonio, San Antonio, TX

2016

Department of Civil and Environmental Engineering

- Finite Element Methods (*Graduate-level*)

### The University of Texas at Austin, Austin, TX

2013

Department of Aerospace Engineering and Engineering Mechanics

- Engineering Computation: Numerical methods and applications to aerospace engineering

### Louisiana State University, Baton Rouge, LA

2008 – 2012

Department of Civil and Environmental Engineering

Teaching assistant:

- Plasticity of Structural Engineering (*Graduate-level*)
- Solid Mechanics (*Graduate-level*)
- Damage Mechanics (*Graduate-level*)
- Statics
- Mechanics of Materials/Statics

## AWARDS

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- Society of Engineering Science (SES) travel award 2013  
SES 50th Annual Technical Meeting and ASME Summer Meeting,  
Brown University, Providence, RI
- National Science Foundation (NSF) Summer Institute Fellowship 2013  
U.S. National Science Foundation  
Summer Institute on Nanomaterials and Micro/Nanomanufacturing,  
Northwestern University, Evanston, IL

- Student Awards — Louisiana State University, Graduate School
- Doctoral Dissertation Year Fellowship 2012 – 2013
- School of Engineering nominee for Distinguished Dissertation Award 2013
- Graduate School Enhancement Award 2008 – 2012

## PROFESSIONAL SERVICE ACTIVITIES

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### Symposium Co-organizer 2014

- ASME 2014 International Mechanical Engineering Congress & Exposition  
Symposium: *Modeling of the behavior of the micro/nano-structured thin films*
- ASME 2014 International Mechanical Engineering Congress & Exposition  
Symposium: *Damage and failure of composites*

### Technical Committee Member 2014 – present

- Computing in Applied Mechanics – *ASME*
- Nanomechanics And Micromechanics – *ASCE/Eng. Mechanics Institute (EMI)*
- Modeling Inelasticity and Multiscale Behavior – *ASCE/Eng. Mechanics Institute (EMI)*

### Professional Peer Referee 2013 –present

- International Journal of Plasticity (Elsevier)
- International Journal of Mechanical Sciences (Elsevier)
- International Journal of Materials & Design (Elsevier)
- Journal of Nanomechanics and Micromechanics (ASCE)
- Journal of Engineering Mechanics (ASCE)
- Journal of Computer Methods in Applied Mechanics and Engineering (Elsevier)
- International Journal of Fracture (Springer)
- Robotics and Computer-Integrated Manufacturing (Elsevier)
- Materials Science and Engineering A (Elsevier)
- International Journal of Experimental and Computational Biomechanics
- International Mechanical Engineering Congress & Exposition (ASME/IMECE)

### Other Activities

- **NSF Panelist** 2018
- **Judge:** BMES Student Case Competition 2017/2018  
The Biomedical Engineering Society of the University of Texas at Austin