# CURRICULUM VITAE
# Meysam Khaleghian, PhD

Texas State University
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**Professional Preparation**

Postdoc, 2018, Virginia Tech, Blacksburg, VA, Mechanical Engineering
Ph.D., 2017, Virginia Tech, Blacksburg, VA, Engineering Mechanics
M.S., 2011, University of Tehran, Tehran, Iran, Mechanical Engineering
B.S., 2008, Sharif University of Technology, Tehran, Iran, Mechanical Engineering

**Appointments**

Associate Professor, Sep 2024 – Present, Mechanical and Manufacturing program, Department of Engineering Technology, Texas State University
Graduate Adviser, Aug 2023 – Present, Engineering Management Program, Department of Engineering Technology, Texas State University
Assistant Professor, Sep 2018 – Present, Mechanical and Manufacturing program, Department of Engineering Technology, Texas State University
Postdoctoral Research Fellow, Jan 2017 – May 2018, Virginia Tech
Graduate Research Assistant (Ph.D.), 2013 – 2016, Virginia Tech
Graduate Intern, Control Architecture team, Tesla Motors, summer 2016
Graduate Intern, Cooper Tire and Rubber Company, summer 2015
Teaching Assistant, 2012 – 2013, Virginia Tech

**Research Expertise and Interests**

The application of AI, New Sensor Technology, Sensor fusion, State estimation, and Intelligent Control in:

- Autonomous Systems
- Robotics and Automation
- Vehicle Dynamics & Control
- Tire-Road Friction and Wear Estimation
- Intelligent Transportation
- Structural Health Monitoring
- Precision Agriculture

**Funded Grants and Contracts as PI/Co-PI, Total: $1.175,756 (my direct share: $645,000)**

- **2025 – 2027** USDA NIFA, "Supplemental Project Enhancement for Women and Minorities in Smart Agriculture", **$151,062**, Role: **Co-PI**
- **2024 – 2027** USDA NIFA, "Women and Minority in Smart Agriculture", **$200,000**, Role: **Co-PI**
- **2022 – 2026** USDA NIFA, "Smart Farm Program", **$270,119**, Role: **PI**

- **2022 – 2023** DOE, "Infrastructure Assessment for Technology Innovation, Development and Training in Carbon Management", **$240,000**, Role: **Co-PI** (**Khaleghian's direct share: $80,000)**
- **2022 – 2023** TX State University, Research Enhancement Program (REP), The Application of Sensor fusion, Aerial images, and Artificial in Precision Agriculture, **$8,000**, Role: **PI**
- **2021 – 2023** NSF, REU Site, "Multidisciplinary Research Experience in Advance Manufacturing for Undergraduates", **$392,737**, Role: **Co-PI** (**Khaleghian's direct share: $196,368)**
- **2020 – 2021** TX State University, International Research Accelerator (IRA), "Development of a Self-powered Wireless Tire- Road Characterization System for Autonomous Vehicles", **$15,000**, Role: **Co-PI** (**Khaleghian's direct share: $5,000)**
- **2019 – 2020** City of Gung Cheon, Korea, "Real-time morning and energy harvesting from a tire deformation using piezoelectric materials", **$41,900**, Roles: **Co-PI** (**Khaleghian's direct share: $10,475)**
- **2018 – 2019** TX State University, Research Enhancement Program (REP), "Using Intelligent Tire Technology to Identify High Risk Areas on the Roads", **$8,000**, Role: **PI**

**In preparation/under review External Grants and Contracts, Total: $456,000**

- NSF REU Site in Advanced Manufacturing (Renewal), NSF, Asking amount: $456,000, Role: **PI.**

**Submitted but Not-Funded Grants and Contracts as PI/Co-PI, Total: $7,579,415.00**

- **2023** NSF, "REU Site in Advanced Manufacturing", $400,000, Role: PI
- **2023** Sony, "Soil Health Monitoring for Regenerating Agriculture", $100,000, Role: Co-PI
- **2022** NSF, "CREST Center for Smart and Resilient Manufacturing (CSRM) at Texas State University (TXST)", $5,000,000, Role: Co-PI
- **2022** TX State University, Multidisciplinary Internal Research Grant (MIRG), "Intelligent 3D Printed Shoe Insole for Fall Risk Prediction", $29,996, Role: Co-PI
- **2022** Texas Department of Transportation (TX DOT), "Develop Recommendations for Evaluating Surface Types and Aggregate Properties to Minimize Wet Weather Crashes", $482,132, Role: Co-PI
- **2022** Texas Department of Transportation (TX DOT), "Develop Rapid New Tests for Detecting Poor Quality Binders and RAP Materials", $200,778, Role: Co-PI
- **2021** DOE - SBIR/STTR, "An Interactive Data Intelligence System for Exascale Passive Seismic Monitoring", $200,000, Role: Co-PI
- **2021** BAYER Co., "Application of Sensor fusion, Areal images, and AI in estimating the Soil Organic Matter (SOM)", $15,000, Role: PI
- **2021** Federal Railroad Administration **(**FRA), "FRA BAA-2021: Addressing Equity Challenges in Evolving Railroad Workforce Training Trends and Best Practices", $162,896, Role: Co-PI
- **2021** Texas Department of Transportation (TX DOT), "Development of Models for Field Performance of Friction and Skid Number", $574,515.44, Role: Co-PI
- **2020** NSF, REU Site, "Research Experience for Undergraduates in Enhanced Infrastructure Systems", $399,098, Role: Co-PI

- **2019** TX State University, International Research Accelerator (IRA), "Concrete Designed with Smart Sensor Technology for Real-Time Quality Control and Structural Health Monitoring of Concrete Structures", $15,000, Role: PI

## Publications

### *Journal Publication*

1. S. Xu, A. Emami, and **M. Khaleghian**. "Controlled Dry Adhesion of Bio-Inspired Fibrillar Polymers: Mechanics, Strategies, and Recent Advances." *Materials* 18, no. 7 (2025): 1620.
2. S. Xu, S. De, **M. Khaleghian**, and A. Emami. "Wear Resistance of Additively Manufactured Footwear Soles." *Lubricants* 13, no. 2 (2025): 89.
3. S. Xu, S. De, **M. Khaleghian**, and A. Emami. "Comparative tribological and drainage performance of additively manufactured outsoles tread designs." *Friction*(2024).
4. Md. J. Uddin, J. Sherrell, A. Emami, and **M. Khaleghian**. "Application of Artificial Intelligence and Sensor Fusion for Soil Organic Matter Prediction." *Sensors* 24, no. 7 (2024): 2357.
5. S. Xu, Md. J. Imtiaze Khan, **M. Khaleghian**, and A. Emami. "Slip Risk Prediction Using Intelligent Insoles and a Slip Simulator." *Electronics* 12, no. 21 (2023): 4393.
6. E. Kim, **S. Khaleghian**, and A. Emami. "Behavior of 3D Printed Stretchable Structured Sensors." *Electronics* 12, no. 1 (2023): 18.
7. A. Emami, H. N. Sah, F. Aguayo, and **S. Khaleghian**. "Experimental investigations and empirical modeling of rubber wear on concrete pavement." *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology* 237, no. 1 (2023): 149-162.
8. K. Nguyen, M. Bryant, I. H. Song, B. H. You, and **S. Khaleghian**. "The Application of PVDF-Based Piezoelectric Patches in Energy Harvesting from Tire Deformation." *Sensors* 22, no. 24 (2022): 9995.
9. M. Ashouri, **S. Khaleghian**, and A. Emami. "A data-driven model for pressure distribution measurements by a four-electrode polymer sensor." *Sensors and Actuators A: Physical* (2022): 113663.
10. M. Ashouri, **S. Khaleghian**, and A. Emami. "Reduced-order modeling of conductive polymer pressure sensors using finite element simulations and deep neural networks." *Structural and Multidisciplinary Optimization*65, no. 5 (2022): 1-15.
11. A. Emami, **S. Khaleghian**, and S. Taheri. "Asperity-based modification on theory of contact mechanics and rubber friction for self-affine fractal surfaces." *Friction* 9, no. 6 (2021): 1707-1725.
12. D. Maurya, **S. Khaleghian**, R. Sriramdas, P. Kumar, R. A. Kishore, M.G. Kang, V. Kumar et al. "3D printed graphene-based self-powered strain sensors for smart tires in autonomous vehicles." *Nature communications* 11, no. 1 (2020): 1-10.
13. D. Ghahremani-Moghadam, and **S. Khaleghian**. "Microstructure and mechanical properties of friction stir welded and processed joints with the addition of nanoparticles: A review." *Current Biochemical Engineering* 6, no. 2 (2020): 82-90.

14. A. Emami, **S. Khaleghian**, T. Bezek, and S. Taheri. "Design and development of a new portable test setup to study friction and wear." *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology* 234, no. 5 (2020): 730-742.
15. P. Behroozinia, **S. Khaleghian**, S. Taheri, and R. Mirzaeifar. "An investigation towards intelligent tyres using finite element analysis." *International Journal of Pavement Engineering* 21, no. 3 (2020): 311-321.
16. P. Behroozinia, **S. Khaleghian**, S. Taheri, and R. Mirzaeifar. "Damage diagnosis in intelligent tires using time-domain and frequency-domain analysis." *Mechanics Based Design of Structures and Machines* 47, no. 1 (2019): 54-66.
17. A. Emami, and **S. Khaleghian**, "Investigation of tribological behavior of Styrene-Butadiene Rubber compound on asphalt-like surfaces." *Tribology International* (2019).
18. **S. Khaleghian,** O. Ghasemalizadeh, S. Taheri, G. Flintsch, "A Combination of Intelligent Tire and Vehicle Dynamic Based Algorithm to Estimate the Tire-Road Friction." *SAE International Journal of Passenger Cars-Mechanical Systems* 12, no. 2 (2019): 81-98.
19. D. Maurya, P. Kumar, **S. Khaleghian**, R. Sriramdas, M. G. Kang, R. A. Kishore, ... & S. Priya, (2018). "Energy harvesting and strain sensing in smart tire for next generation autonomous vehicles". *Applied Energy*, *232*, 312-322.
20. **S. Khaleghian,** S. Taheri, "Terrain classification using intelligent tire." *Journal of Terramechanics* 71 (2017): 15-24.
21. **S. Khaleghian**, A. Emami, S. Taheri, "A technical survey on tire-road friction estimation." *Friction* (2017): 1-24.
22. S. Najafi, G.W. Flintsch, and **S. Khaleghian**, "Fuzzy logic inference-based Pavement Friction Management and real-time slippery warning systems: a proof of concept study". *Accident Analysis & Prevention*, *90*, pp.41-49, 2016
23. **S. Khaleghian.**, O. Ghasemalizadeh., and S. Taheri, "Estimation of the Tire Contact Patch Length and Normal Load Using Intelligent Tires and Its Application in Small Ground Robot to Estimate the Tire-Road Friction." *Tire Science and Technology* 44, no. 4 (2016): 248-261.
24. S. Najafi, G.W. Flintsch, and **S. Khaleghian**, Pavement friction management – artificial neural network approach, *International Journal of Pavement Engineering* (2016): 1-11
25. M. Yadegari, **S. Khaleghian**, A. Emami, Mehran Tehrani, N. Soltani, "Utilizing digital image correlation to determine stress intensity factors." *Polymer Testing* 37 (2014): 28-35
26. **S. Khaleghian**, A. Emami, M. Tehrani, N. Soltani, "Analysis of effective parameters for stress intensity factors in the contact problem between an asymmetric wedge and a half-plane using an experimental method of photoelasticity." *Materials & Design* 43 (2013): 447-453.
27. M. H. Ghasemi Baboli, **S. Khaleghian**, N. Soltani, "Errors estimation for evaluation of mixed mode stress intensity factor of cracks emanating from reentrant corners using simulated photoelasticity", *World Applied Sciences Journal* 4, no. 11 (2010): 733-736

### ***Conference Publication:***

1. S. De, S. Xu, A. Emami, and **M. Khaleghian**. "Gecko-Inspired Surface Microstructures: Friction Control and Adaptive Design for Space Environments." In *ASME Aerospace Structures, Structural Dynamics, and Materials Conference*, vol. 88759, p. V001T03A023. American Society of Mechanical Engineers, 2025.

2. J. Banks, **S. Khaleghian**, & A. Emami, (2022). "Effects of Infill on the Additive Manufacturing of Piezoresistive Pressure Sensors". ASME International Mechanical Engineering Congress and Exposition.
3. J. Khan, **S. Khaleghian** & A. Emami, (2022). "Design of a Versatile Slip Resistance Tester Mimicking Foot Kinematics and Kinetics During Human Slip". ASME International Mechanical Engineering Congress and Exposition.
4. J. Uddin, R. Basutkar, A. Emami, & **S. Khaleghian** (2022). "Development of AI-Based Algorithms for the Estimation of Soil Organic Matter from the Integration of UAV & In-Ground Soil Sensor". ASME International Mechanical Engineering Congress and Exposition.
5. K. Nguyen, BH. You, IH. Song, **S. Khaleghian**, (2022). "Energy Harvesting from the Tire Deformation". ASME International Mechanical Engineering Congress and Exposition.
6. A. Emami, H. H. Gnidehoue, & **S. Khaleghian**, (2021). "Estimation of Rubber Wear Rate Using Three Different Machine Learning Algorithms". Presented in: *ASME IMECE*
7. R. K. Basutkar, **S. Khaleghian**, (2021). "Design and development of an automated system for precision agriculture". Presented in: *Southern Family Farmers and Food conference*
8. **S. Khaleghian**, S. Taheri, "Intelligent Tire Based Pressure Monitoring Algorithm"**,** ASME 2017, IMECE, November 2017
9. A. Emami, **S. Khaleghian**, C. Su, S.Taheri. "Physics-based friction model with potential application in numerical models for tire-road traction", ASME 2017 Dynamic Systems and Controls Conference, October 2017
10. A. Emami, **S. Khaleghian**, C. Su, S.Taheri. "Physics-based friction model with potential application in numerical models for tire-road traction", ASME 2017, IMECE, November 2017
11. A. Nouri, **S. Khaleghian**, S. Taheri, "Tire Contact Stress/Health Assessment using Acoustic Emission", Tire Society Conference, September 2017
12. **S. Khaleghian**, O. Ghasemalizadeh, S. Taheri, "Estimation of Contact Patch Length and Normal Load Using Intelligent Tire", Tire Society Conference, September 2015
13. **S. Khaleghian**, A. Emami, N. Soltani, "Image Processing Code for Sharpening Photoelastic Fringe Patterns and Its Usage in Determination of Stress Intensity Factors in a sample contact problem", Presented in 3rd International Conference on Manufacturing Engineering, ICME2011, Tehran, Iran.
14. **S. Khaleghian**, A. Emami, M. Yadegari, N. Soltani, " The Effect of Horizontal and Vertical Force on Stress Intensity Factors in The Contact Problem Between Tilted Wedge and Half Plane With an Edge Crack Using Digital Image Correlation", Full paper accepted, The International Conference on Experimental Solid Mechanics and Dynamics (X-Mech 2012)
15. A. Emami, **S. Khaleghian**, M.J. Mahjoob, " Design, Analysis, and Simulation of a Pipe Welding Robot with Fixed Plinth", Presented in 3rd International Conference on Manufacturing Engineering, ICME2011, Tehran, Iran.

**Awards and Honorable Mentions:**

- Arch T. Colwell Merit Award (The best 2019 paper in the SAE International Journal of Passenger Cars - Mechanical Systems), SAE International (Society of Automotive Engineers). February 2020
- Editorial Board, Journal of Tire Science and Technology, 2020 – Present

- Entrepreneurial Lead, NSF I-CORPS program award ($50k), Fall 2017
- Amir Chand & Dewki Bai Batra Scholarship award, Engineering Mechanics graduate program, Virginia Tech, May 2017
- Dean's Engineering Graduate Fellowship, Engineering Mechanics graduate program, Virginia tech, August 2012
- Full Scholarship for Master of Science in Mechanical Engineering, University of Tehran, Tehran, Iran, September 2008
- Full Scholarship for Bachelor of Science in Mechanical Engineering, Sharif University of Technology, Tehran, Iran, September 2003

**Teaching Experience**

- Product Design and Development (graduate level course), Department of Engineering Technology, Texas State University, fall 2018 – present
- Advance Manufacturing System (graduate level course), Department of Engineering Technology, Texas State University, summer 2019 – present
- Applied Dynamics, Texas State University, Spring 2024 – present
- Senior Design, Department of Engineering Technology, Texas State University
    - Spring 2023 (weighted average instructor evaluation 4.73/5)
    - Fall 2022 (weighted average instructor evaluation 5/5)
    - Spring 2022 (weighted average instructor evaluation 4.71/5)
    - Fall 2021 (weighted average instructor evaluation 4.9/5)
    - Spring 2021 (weighted average instructor evaluation 4.56/5)
    - Fall 2020 (weighted average instructor evaluation 4.48/5)
    - Spring 2020 (weighted average instructor evaluation 4.14/5)

- Automated Manufacturing System II (undergraduate level course), Department of Engineering Technology, Texas State University
    - Spring 2023 (weighted average instructor evaluation 4.59/5)
    - Spring 2022 (weighted average instructor evaluation 4.5/5)
    - Spring 2021 (weighted average instructor evaluation 4.5/5)
    - Spring 2020 (weighted average instructor evaluation 4.1/5)
- Invited lecturer for System Dynamics, Department of Mechanical Engineering, Virginia Tech, fall 2014, 2016, 2017
- Invited lecturer for Vehicle Control, Department of Mechanical Engineering, Virginia Tech, spring 2016
- Invited lecturer for Mechanical Vibrations, Department of Mechanical Engineering, Virginia Tech, fall 2015
- Teacher assistant for Dynamics, Department of Engineering Science and Mechanics, Virginia Tech, Spring 2013
- Teacher assistant for Statics, Engineering Science and Mechanics Department, Virginia Tech, Fall 2012
- Teacher assistant for Mechanical Engineering Design-I, School of Mech. Eng., Univ. of Tehran, fall 2009, fall 2010, spring 2011.
- Teacher assistant for Mechanical Engineering Design -II, School of Mech. Eng., Univ. of Tehran, spring 2009, fall 2011
- Teacher assistant for, School of Mech. Eng., Azad Islamic Univ., spring 2010.

- Invited instructor and Teacher assistant for Finite Element Method, School of Mech. Eng., Univ. of Tehran, spring 2010).
- Teacher assistant for Mechanics of Deformable Bodies, School of Mech. Eng., Univ. of Tehran, Spring 2009
- Lab. instructor: Mechanical behavior of material, Univ. of Tehran, fall 2010, spring 2011

**Graduate Theses/Dissertations or Exit Committees**

- **Member, PhD Dissertation**, " Multi-scale Investigation, Characterization, and Microstructural Analysis of Alternative Cementitious Materials for Sustainable Development", Status: In Progress. (Jan 2023 - Present). MSEC Program, Texas State University. Student(s): Tijani Mohammed, Doctoral, PhD.
- **Member, PhD Dissertation**, "Integrating Renewable Energy for Desalination Plant Operations under Generation and Membrane Life Uncertainty", Status: In Progress. (September 2021 - Present). MSEC Program, Texas State University. Student(s): Farah Najdawi, Doctoral, PhD.
- **Member, PhD Dissertation**, "Additively Manufactured Nanocomposite Sensor for Flexible Structures", Status: In Progress. (September 2020 - Present). MSEC Program, Texas State University. Student(s): James Banks, Doctoral, PhD.
- **Member, Master's Thesis**, " Evaluation of 3D Printed Tags for Direct Part Making of Metal Castings", Status: Completed. (May 2023). Engineering Technology, Texas state university. Student(s): Nicte' Sobrevilla Rosas, Graduate, MSc.
- **Member, Master's Thesis**, " Application of Artificial Intelligence and Sensor Fusion in Smart Agriculture", Status: Completed. (May 2023). Ingram School of Engineering, Texas state university. Student(s): Md Jasim Uddin, Graduate, MSc.
- **Member, Master's Thesis**, " Design of a Versatile Slip Resistance Tester Mimicking Foot Kinematics and Kinetics During Human Slip and Classification of Slip Risk Event Based on Instrumented Insole Input", Status: Completed. (May 2023). Ingram School of Engineering, Texas state university. Student(s): Md Javed Imtiaze Khan, Graduate, MSc.
- **Member, PhD Dissertation**, "Carbonation and chloride-ion induced corrosion in alternative cementitious material concrete", Status: Completed. (September 2019 - 2023). MSEC Program, Texas State University. Student(s): Ikechukwa Okechi, Doctoral, PhD.
- **Supervisor / Chair, Master's Thesis**, "Developing an underwater robotic data collecting and analysis system to monitor the underwater ecosystem", Status: In Progress. (Jan 2022 - Present). Engineering Technology, Texas state university. Student(s): Rachana Hurali, Graduate, MSc.
- **Supervisor / Chair, Master's Thesis**, "Design and development of an automated system for precision agriculture", Status: Completed. (May 2022). Engineering Technology, Texas state university. Student(s): Rishab Basutkar, Graduate, MSc.
- **Supervisor / Chair, Master's Directed Project**, " Development of a manufacturing production area in an early-stage startup", Status: Completed. (July 2022). Engineering Technology, Texas State University. Student(s): Kenneth Artice, M.Sc.
- **Supervisor / Chair, Master's Thesis**, "Comprehensive analysis of rubber concrete sliding friction & wear", Status: In Progress. (May 2021). Engineering Technology, Texas State University. Student(s): Hos Narayan Sah, Graduate, M.Sc.
- **Supervisor / Chair, Master's Directed Project**, "Automated Collision Avoidance System Integrated with Wirelessly Connected Robots", Status: Completed. (July 2020).

Engineering Technology, Texas State University. Student(s): Connor Bereck, Graduate, M.Sc.

- **Supervisor / Chair, Master's Directed Project**, "Estimation of Wear-Rate Using Machine Learning", Status: Completed. (July 2020). Engineering Technology, Texas State University. Student(s): Houdji Hillary Gnidehoue, Graduate, M.Sc.
- **Member, Master's Directed Project**, "Development of Microfluidics Systems Using the Xurography Method", Status: Completed. (May 2020). Engineering Technology, Texas State University. Student(s): Mudriq Hamad, Graduate, M.Sc.
- **Supervisor / Chair, Master's Directed Project**, "ROBOT DESIGN IN PRECISION AGRICULTURE", Status: Completed. (December 2019). Engineering Technology, Texas State University. Student(s): Mitchell Corona, Graduate, M.Sc.
- **Member, Master's Thesis**, "Classification of extra galactic x-ray sources using machine learning method", Status: Completed. (July 2019). Physics, Texas State University. Student(s): Mehrdad Rostami-Osanloo, Graduate, M.Sc.
- **Member, Master's Directed Project**, "Basis for Design of Charging Systems for Electrical Vehicles (EVs)", Status: Completed. (May 2019). Engineering Technology, Texas State University. Student(s): Jorge Melguizo Castro, Graduate, M.Sc.

**Professional Activities**

- **Conference Chair**, 39th Annual Meeting and Conference on Tire Science and Technology, Akron, Ohio, September 2020
- **Conference Co-Chair**: 38th Annual Meeting and Conference on Tire Science and Technology, Akron, Ohio, September 2019
- **Editorial Board**: Journal of Tire Science and Technology (2020 – present)
- **Reviewer**: SAE International Journal of Commercial Vehicle, SAE International Journal of Transportation Safety, SAE International Journal of Aerospace, SAE International Journal of Vehicle Dynamics, Stability, and NVH, Journal of Sensors and Actuators: A. Physical, International Journal of Vehicle Design, IEEE Transactions on Intelligent Transportation Systems, Journal of Engineering Fracture Mechanics
- **Member:** SAE, ASME

**Institutional (TX ST University) Activities/Services**

- **Graduate Adviser,** Engineering Management Program, Department of Engineering Technology, August 2023– present.
- **Member of Personnel Committee,** Department of Engineering Technology, Sep 2024-Present
- **Member of Curriculum Committee,** Department of Engineering Technology, April 2023– present.
- **Director,** NIFA USDA funded Smart Farm Program, August 2022– present.
- **Co-Director,** NSF REU Site in Advanced Manufacturing, May 2021 – present.
- **Co-Advisor,** American Society of Mechanical Engineers (ASME). September 2021– present.
- **Regular Doctoral Faculty,** Material Science, Engineering, and Commercialization (MSEC) Doctoral Program, August 2018– present.
- **Member of ABET Committee,** Department of Engineering Technology, 2019– present.

- **Member of Graduate Faculty,** Department of Engineering Technology, Sep 2018– present.
- **Program Repetitive,** Bobcat Days, 2018– present.
- **Department Repetitive,** Commencement, 2018– present.