Beiyu Lin

Curriculum Vitae

Google scholar link

Assistant Professor
Department of Computer Science
The University of Oklahoma
beiyu.lin@ou.edu
Website: https://beiyulincs.github.io/

Education

2016-2020 **PhD, Computer Science**, Center for Advanced Studies in Adaptive Systems, Washington State University, Pullman, WA, Advisor: Diane J. Cook.
Topic: Population-level behavior analysis based on smart environment sensor data

2013–2015 **Master of Science in Mathematics**, Washington State University, Pullman, WA.

2011–2013 **Master of Science in Applied Math**, State University of New York, Stony Brook, NY.

2007–2011 **Bachelor of Science in Math and Applied Math**, Shanghai Maritime University, China.

Professional Experience

1/2024-now **Assistant Professor (tenure-track)**, Computer Science, University of Oklahoma.
Affiliate Faculty Member, Psychiatry and Behavioral Science, College of Medicine, OU.
Affiliate Faculty Member, Data Institute for Societal Challenges, OU.
Affiliate Faculty Member, Institute for Community and Society Transformation, OU.

8/21-12/23 **Assistant Professor (tenure-track)**, Computer Science, University of Nevada-Las Vegas.
Affiliate Faculty Member, Nevada Center for Astrophysics, UNLV.

8/2020-2021 **Assistant Professor (tenure-track)**, Computer Science, University of Texas-Rio Grande Valley.

2015-2020 **Graduate Research Assistant**, Electrical Engineering and Computer Science, WSU.

Summer 2019 **Software Engineer Intern**, Dell EMC, Seattle, WA.
Wrote an analytic application of sensor data from cars in Brisbane, Australia. This application ingested streaming data, analyzed and predicted the traffic flow. The visualization is an hourly-based heat-map with location markers. When users click a marker, a bar chart will pop up with the predicted traffic flow.

Summer 2019 **Instructor**, School of Electrical Engineering and Computer Science, WSU.

Summer 2018 **Software Engineer Intern**, Honeywell, Atlanta, GA.
Worked on the Honeywell Aerospace Development Team for Low Altitude Authorization and Notification Capability Unmanned Aircraft System Service Supplier. Used Python and JavaScript to develop Honeywell USS Product, including developing data/user interface and authorization service. Helped out other projects, including flight plane engine, edge to cloud, memory leak and dashboard.

2014–2015 **Instructor**, Department of Mathematics, WSU.

2013–2014 **Teaching Assistant**, Department of Mathematics, WSU.

Honors and Awards

1/2022 People Choice Award for Young Professional Poster Competition, IEEE Rising Stars.

4/2021 Best Applied Data Science Paper Award, SIAM International Conference on Data Mining (SDM). (SDM is one of the top 4 data mining conferences.)

2020 Nomination for Graduate Student Instructor Excellence Award (a university-wide), GPSA, WSU.

2019 2^{nd} Place, 3-Minute Thesis Competition, Voiland College of Engineering & Architecture.

2019 The Computer Science Department Representative to Compete Three Minutes Thesis.

2018 Our paper was highlighted at IEEE Journal of Biomedical and Health Informatics (impact score 6.98).

2014 Award for Excellence Teaching Assistant (a university-wide), Graduate & Professional Students Association.

2011 Award for Outstanding Undergraduate Thesis, Shanghai Maritime University.

2010 Volunteer Star of the World Expo. International Registered Exhibitions, Shanghai, China.

2010 Three Good Student, Shanghai Maritime University

2009 Outstanding Individual of China Ocean Shipping Company, Shanghai Maritime University.

2009 Excellent Summer Practice Paper Award, Shanghai Maritime University.

2009 Outstanding Counselor Assistant of the Year, Shanghai Maritime University.

Grant Awarded (my part awarded as PI and Co-PI: $409,105.0, total awarded amount: $747,133.0)

3/2024 Co-PI: Automated Model Creation from SysML Documentation, Air Force SBIR/STTR Phase 1, $100,000.

4/2023 Co-PI: FOA: Harnessing Big Data to Optimize Green Infrastructure Resource Allocation for the Improvement of Human Health Outcomes, UNLV, PI: Xiwei Shen and Grant Mosey, $34,000.

9/2022 (Sole) PI: Postdoc Fellowship application, UNLV. $27,221 from Provost' Office, $10,000 from college, remaining on my own.

8/2022 PI: Artificial Intelligence based Auditory Scene Identification. Graduate Faculty Top Tier Doctoral Graduate Research Assistantship (TTDGRA), UNLV, 3-year RAships $102,750.

7/2022 (Sole) PI: Google exploreCSR, *unrestricted gift, $32,000*.

5/2022 (Sole) PI: Plasma Wave Activity Recognition, *One page summary for QEM/NASA, $2,000 travel support.*

4/2022 (Sole) PI: Artificial Intelligence based Auditory Scene Identification, *Faculty Opportunity Awards, UNLV Internal. $19,991*

4/2022 (Sole) PI: Early detection of hearing loss, *Troesh Center for Entrepreneurship and Innovation Research Grants, UNLV Internal. $5,000*

4/2022 Collaborator: Improving PolySubstance Use Measurement – Refinement and pilot-testing of a web-based Timeline FollowBack survey to capture self-report, event-level polysubstance use, *Faculty Opportunity Awards, UNLV Internal. PI: Dr. Timothy J. Grigsby, Department of Social and Behavioral Health; $17,380.*

1/2022 Co-PI: Acquisition of Connected Autonomous Vehicles (CAV) Infrastructure to Support Cooperative Human-Robot Driving and Pedestrian Safety, *NSF MRI, $377,291*.

09/2020 PI: Modeling Human Routine Behavior via Deep Inverse Reinforcement Learning, *Google Cloud, $1,500*.

08/2020 PI: Google exploreCSR, *Google Research, $18,000* (event website).

* 128 students (out of 760 applications; 17% acceptance rate) participated in the workshop.
* 9 interns participated in a 2-month research program mentored by 4 faculty.
* 5 interns joined the graduate school in computing.

Students

Fall'24 OU Serve as an advisor for 4 Ph.D. Students (started 8/2024), 2 undergraduate students.
**accepted 3 full papers, 5 student abstracts; submitted 2 short papers and 5 full papers;*
1 Ph.D. student won **Best Student Presentation Runner Up at DSAA'24 student forum;*
**3 awarded Ph.D. students with travel award from DSAA'24 (funded by NSF and Journal of AI);*
**2 awarded Ph.D. students with College of Engineering PhD Recruitment Excellence Fellowship;*
**2 awarded undergraduate students for summer research fellowship from College of Engineer;*

Spring'24 OU Serve as Master's Non-Thesis Exam Committee for James Miller in Computer Science.

Fall 2023 Serve as an advisor for 2 Ph.D, 1 M.S., 4 B.S.

Summer 2023	Serve as an advisor for 2 Ph.D, 1 M.S., 6 B.S. (1 visiting), 2 high schoolers **submitted 6 papers;* **3 awarded undergraduate students for summer research fellowship;* **1 awarded student with KDD travel award and GPSA award.*
Spring 2023	Serve as an advisor for 1 Postdoc, 2 Ph.Ds, 1 M.S., 4 B.S. (1 visiting)
Fall 2022	Serve as an advisor for 4 visiting students, 4 undergraduates, 1 graduate to do research **published 3 poster/demo papers to ACM/IEEE SEC'22;* **2 awarded student travel support from SEC;* **submitted 1 full paper to journal: Biocybernetics and Biomedical Engineering*
Summer 2022	Serve as an advisor for 4 visiting students and 1 graduate to do summer research **submitted 2 full paper and 1 student abstract to AAAI'23;* **submitted 2 student research competitions to ACM SIGSPATIAL'22.*
Summer 2022	Serve as Ph.D.'s Thesis Committee for Maggie McMullin in Psychology
Summer 2022	Serve as Ph.D.'s Thesis Committee for Hannah Williams in Computer Science
Summer 2022	Serve as Master's Thesis Committee for Nicholas Lower in Computer Science
Summer 2022	Serve as Master's Thesis Committee for Paul Stanik in Computer Science
Spring 2022	Serve as Ph.D.'s Thesis Committee for Sai Kosaraju in Computer Science
Summer 2022	Master's Thesis Committee for Albert Romero inx' Applied Statistics and Data Science at UTRGV
Fall 2021	Serve as Master's Thesis Committee for Mikian Musser in Computer Science
Fall 2021	Guangyu Meng (M.S. at Washington University in St. Louis, intern in the lab) **published a full paper at SDM'22* **published a student abstract at AAAI'22*
Spring'21	Jason Hough, Lidia Garcia, Luis Tamborrell, Pedro Tinajero (B.S. at UTRGV, senior project)
2020-2021	Sonny Chauhan (B.S. at Rensselaer Polytechnic Institute, intern in the lab) *next place ⇒ Data Analyst Intern in the Simons Foundation.
08-10/2020	Yifeng Yu (B.S. at the University of Southern California, intern in the lab)
08-10/2020	Shariful Islam (incoming M.S. at UTRGV) **submitted a student abstract to AAAI'21.*
Fall 2020	Kaiqun Fu (Ph.D. at Virginia Tech, co-advising) **published a full paper at SDM'22.*
Fall 2020	Mingyuan Wang (Ph.D. at Florida State University, co-advising)
Fall 2020	Debangsha Sarkar (M.S. at University of British Columbia Okanagan Campus, co-advising)

Teaching Experience (clicking the eval score will lead to the course evaluation files)

Spring 2025	Instructor, Machine Learning Fundamentals, mainly open to Engineering students.	
Spring 2025	Co-Instructor, Generative AI for Healthcare, open to residents in College of Medicine.	
Spring 2024	Instructor, Data Structure, OU, (in person, 150+ undergraduates).	eval file
Spring 23	Instructor, Data Structure, UNLV (in person, 20 undergraduates)	eval: 4.25/5
Spring 22	Instructor, Mining Internet of Things Data, UNLV (in person, 20 graduates)	eval: 4.67/5
Fall 21	Instructor, Intro to Data Mining, UNLV (online, 30 undergraduates and graduates)	eval: 4.78/5
Spring 21	Instructor, Computer Science I (C++), UTRGV (online, 50 undergraduates)	eval: 4.83/5
Spring 21	Instructor, Computational Behavior Modeling, UTRGV (online, 50 undergraduates)	eval: 4.49/5
Fall 20	Instructor, Computer Science I (C++), UTRGV (45 undergraduates; online)	eval: 4.51/5
Fall 20	Instructor, Seminar in Computer Science, UTRGV (27 graduates; online)	eval: 4.48/5
Summer 19	Instructor, Program Design and Development in C, WSU (10 undergraduates)	
Summer 15	Instructor, College Algebra, WSU (over 30 undergraduates)	

Fall14/Spring15 Instructor, Mathematics for Business and Economics, WSU (over 90 undergraduates)

Publications (names in underlines are students)

Submitted

12/2024 Ahsan Bilal, Beiyu Lin. LLMs Explain Stress Level (full paper), PAKDD, 2025.

12/2024 Saeed Tajik, Beiyu Lin. Large Language Models for Sensor Data (full paper), PAKDD, 2025.

12/2024 Kevin Nguyen, Beiyu Lin. Emotion Study Given Heavy-Tailed Distributions (full paper), PAKDD.

12/2024 Ahsan Bilal, David Ebert, Beiyu Lin. A Survey on LLMs for XAI, ACM Transactions on Knowledge Discovery from Data.

12/2024 Saeed Tajik, Beiyu Lin. A Survey on LLMs for Model-Centric AI, ACM Transactions on Knowledge Discovery from Data.

12/2024 Nam Huynh, Beiyu Lin. A Survey on LLMs For Code Generations, IEEE Transactions on Knowledge and Data Engineering

9/2024 Ahsan Bilal, Beiyu Lin. LLMs for Explainable AI, Blue Sky Track SDM'25.

Published

12/2024 Theo Gueuret, Beiyu Lin, Lingwei Chen, Margaret McMullin, Ruben Alberts, Xiaowei Jia, Joel Snyder. SlideWin: Integrating Machine Learning with Human Knowledge for Auditory Scene Recognition with Limited Annotated Data, *Sensors (to appear).*

11/2024 Mehdi Zeifi, Beiyu Lin. Smartphone Usage Data Cleaning Using LLM-Based Processing, IEEE Big Data Poster (to appear).

10/2024 Ramu Gautam, Beiyu Lin, Mei Yang. Few-Short Learning for Detecting Affective States from Keyboard and Mouse Data, IEEE DSAA'24 (ranked A at CORE, acceptance rate 26%.)

10/2024 Ahsan Bilal, Beiyu Lin. LLMs for XAI, DSAA'24 student forum (Best Student Presentation Runner Up).

10/2024 Saeed Tajik, Beiyu Lin. LLMs for Time Series Data, DSAA'24 student forum.

10/2024 Nam Huynh, Beiyu Lin. LLMs for Automatically Data Cleaning, DSAA'24 student forum.

8/2024 Nam Huynh, Beiyu Lin. LLMs Generate Code for Data Clean, KDD Ph.D. student forum.

3/2024 Wang, X., Xie, Y., Xia, L., He, J. and Lin, B., 2024. Investigating the Effect of Transit-Oriented Development (TOD) on Social Equity—Examining the Displacement of Footscray, Melbourne. Buildings, 14(3), p.824.

11/2023 Yan, J., Huang, X., Wang, S., He, Y., Li, X., Hohl, A., Li, X., Aly, M. and Lin, B., 2023. Toward a comprehensive understanding of eye-level urban greenness: a systematic review. International Journal of Digital Earth, 16(2), pp.4769-4789.

7/2023 Katherine Wuestney, Beiyu Lin, Diane Cook, Roschelle Fritz. Modeling Human Frailty with a Smart Home-Based Approximation of Entropy, *rapid-fire oral presentation, ACM-BCB'23.*

6/2023 Tan Nguyen, Beiyu Lin. Machine Learning for Parkinson Detection via Speech Analysis, *KDD'23 SoCal Data Science Day.*

1/2023 Seungman Park, Anna Lien-Lun Chien; Beiyu Lin; Keva Li. Improved diagnosis of rosacea by combining deep learning models, *full paper to Journal: Applied Sciences.*

12/2022 Taif Anjum, Louis Chirade, Beiyu Lin, Apurva Narayan. Learning Spatiotemporal Features via 3D CNNs to Forecast Time-To-Accident, *short paper, International Conference on Agents and Artificial Intelligence (ICAART)'23 (accepted).*

2022 Louis Barbier, Beiyu Lin. Unsupervised Learning for Extreme Space Weather Detection, *Posters and Demos ACM/IEEE Symposium on Edge Computing (SEC)'22.*

2022 Cicelia Siu, Beiyu Lin. Imitation Learning for cortical speech-evoked responses, *Posters and Demos ACM/IEEE SEC'22.*

2022 Wenkai Li,Theo Gueuret, Beiyu Lin. SlideCNN: Deep Learning for Auditory Spatial Scenes with Limited Annotated Data, *Posters and Demos ACM/IEEE SEC'22.*

2022 Taif Anjum, Beiyu Lin, Apurva Narayan. Leveraging Spatio-temporal Features to Forecast Time-To-Accident, *ACM SIGSPATIAL Student Research Competition'22.*

2022 Meng, G., Jiang, Q., Fu, K. , B. Lin, C. Lu, and Z. Chen. Early forecasting of the impact of traffic accidents using a single shot observation. *SIAM International Conference on Data Mining (SDM) acceptance rate of 27.8%*, 2022.

2022 Meng, G., Jiang, Q., Fu, K. , B. Lin, C. Lu, and Z. Chen. Early forecast of traffic accident impact based on a single-snapshot observation. *AAAI Student Poster Session*, 2022.

2022 B. Lin, X. Jia, Chauhan, S., H. Xu, and X. Huang. Behavior modeling via cursor movement data. *IEEE Rising Stars Poster Competition (People Choice Award)*, 2022.

2021 Ek, S., Curci, M., Yang, X., B. Lin, and H. Xu. Sentiment analysis of long-term social data during the covid-19 pandemic. *Int'l Conf on Internet Computing and Internet of Things (ICOMP)*, 2021.

2021 B. Lin, X. Jia, and Z. Chen. Studying spread patterns of covid-19 based on spatiotemporal data,. *SIAM International Conference on Data Mining (SDM) Tutorial.*, 2021.

2021 X. Jia, B. Lin, J. Zwart, J. Sadler, A. Appling, S. Oliver, and J. Read. Graph-based reinforcement learning for active learning in real time: An application in modeling river networks. *SIAM International Conference on Data Mining (SDM), 2021, acceptance rate of 21.25% (Best Applied Data Science Paper Award).*, 2021.

2020 Beiyu Lin. Smart home residents' behavior analysis. *Academic Showcase, Pullman, Washington State University*, 2020.

2020 Beiyu Lin. Human location preferences via imitation learning. *Infrastructure and Construction Webinar - Urban Planning Session*, 2020.

2020 B Lin, D. Cook, and Schmitter-Edgecombe M. Using continuous sensor data to formalize a model of in-home activity patterns. *Journal of Ambient Intelligence and Smart Environments* ***(Impact factor: 2.85; Quartile: based on Resurchify, Q2 in the 25 to 50% group)***, pages 1–19. IOS Press, 2020.

2020 B. Lin and D. Cook. Analyzing sensor-based individual and population behavior patterns via inverse reinforcement learning. *Sensors* ***(Impact factor: 4.35; Quartile: based on Resurchify, Q1 top 25% of journals)****, volume 20, page 5207,*, 2020.

2019 Beiyu Lin. Population level behavior analysis and its applications in healthcare. *Ph.D. Forum at SIAM International Conference on Data Mining Doctoral Forum, Alberta, Canada*, 2019.

2019 Beiyu Lin. Constructing an ecologically-valid formal markovian model of human activity patterns. *General Poster Session at Grace Hopper Celebration, Orlando, FL*, 2019.

2019 Y. Huangfu, N. Lima, P. O'Keeffe, W. Kirk, B. Lamb, S. Pressley, B. Lin, D. J. Cook, V. Walden, and B. Jobson. Diel variation of formaldehyde levels and other vocs in homes driven by temperature dependent infiltration and emission rates. *Building and Environment* ***(Impact factor: 6.92; Quartile: based on Resurchify, Q1 top 25% of journals)***, volume 159, page 106153. Elsevier, 2019.

2018 A. Musser, B. Lin, D. Cook, B. Jobson, M. Kirk, N. Lima, P. O'Keeffe, S. Pressley, V. Walden, Y. Huangfu, and B. Lamb. Simulations of indoor air quality based on future climate conditions. 2018.

2018 A. Musser, B. Lin, D. Cook, B. Jobson, M. Kirk, N. Lima, P. O'Keeffe, S. Pressley, V. Walden, Y. Huangfu, and B. Lamb. The major role of temperature on indoor concentrations of air toxic vocs in 9 houses based on in-situ high time resolution measurements. *the 15th Conference of the International Society of Indoor Air Quality and Climate*, 2018.

2018 A. Musser, B. Lin, D. Cook, B. Jobson, M. Kirk, N. Lima, P. O'Keeffe, S. Pressley, V. Walden, Y. Huangfu, and B. Lamb. Indoor air toxic gases levels in a net-zero energy house under multiple ventilation system settings. 2018.

2018 Beiyu Lin. Identifying and modeling the patterns of human activity routines. *Research Exposition at Graduate and Professional Student Association, Pullman, WA*, 2018.

2018 W. Kirk, M. Fuchs, Y. Huangfu, N. Lima, P. O'Keeffe, B. Lin, T. Jobson, S. Pressley, V. Walden, D. Cook, et al. Indoor air quality and wildfire smoke impacts in the pacific northwest. *Science and Technology for the Built Environment* ***(Impact factor: 1.82 Quartile: based on Resurchify, Q2 in the 25 to 50% group)***, volume 24, pages 149–159. Taylor & Francis, 2018.

2018 A. Ghods, K. Caffrey, B. Lin, K. Fraga, R. Fritz, M. Schmitter-Edgecombe, C. Hundhausen, and D. J. Cook. Iterative design of visual analytics for a clinician-in-the-loop smart home. *IEEE journal of biomedical and health informatics* ***(Impact factor: 7.41; Quartile: based on Resurchify, Q1 top 25% of journals)***, volume 23, pages 1742–1748. IEEE, Highlight at the journal (link), 2018.

2017 B. Lin, Y. Huangfu, N. Lima, B. Jobson, M. Kirk, P. O'Keeffe, S. Pressley, V. Walden, B. Lamb, and D. J. Cook. Analyzing the relationship between human behavior and indoor air quality. *Journal of Sensor and Actuator Networks* ***(Impact factor: 4.74; Quartile: based on Resurchify, Q1 top 25% of journals)***, volume 6, page 13, 2017.

2013 Z. Sheng, B. Lin, and Zhang S. Testing unit roots of first-order autoregressive process with stable distributions errors. *Chinese Journal of Applied Probability and Statistics*, volume 29, pages 443–448, 2013.

Scholarships (as a student)

2020 Professional Development Grants (funded by graduate & professional student association).

2020 Knowledge Discovery and Data Mining (KDD) (student registration award funded by NSF and SIGKDD).

2020 ACM Conference on Recommender Systems (registration fee waived).

2019 SIAM International Conference on Data Mining (funded by NSF and Intel), Canada.

2019 ACM-IMS Interdisciplinary Summit on the Foundations of Data Science (funded by NSF), CA.

2019 Grace Hopper Celebration of Women in Computing (registration fee was funded by GHC), FL.

2019 Analytics and Data Summit (registration fee was funded by Oracle Academy), CA.

2019 Strata Data Conference (funded by O'Reilly Media), CA.

2018 Google I/O, Mountain View, CA.

2017 Google Summer of Code Mentor Summit, Sunnyvale, CA.

2017 Grace Hopper Celebration (funded by Computer Science Department at WSU), FL.

2015 Mathematical Science Research Institute: Summer School on Incompressible Fluid Flows, CA.

2015 The Institute for Mathematics and its Applications: Workshop for Women in Analysis and PDE, MN.

2010-2011 2^{nd} Class Scholarship, Shanghai Maritime University.

2009-2010 2^{nd} Class Scholarship, Shanghai Maritime University.

2007-2008 3^{rd} Class Scholarship, Shanghai Maritime University..

Research Projects (as a student)

2019–2020 **Understanding Behavior Differences Among Subpopulations Using Inverse Reinforcement Learning**, *funded by National Institutes of Health (NIH).*

With a strong relationship between behavior habits and health status, we utilize a data-drive approach to understand behavior patterns and study the dynamic between situations and actions. The findings may allow technology to help improve people's habits and health status.

2018–2019 **Constructing Markov Models of Human Behaviors Based on Smart Home Sensor Data**, *funded by National Science Foundation (NSF); collaborated with College of Nursing.*

While pervasive computing technologies for observing human behavior are becoming mainstream, we construct stochastic models based on smart home sensor data among population subgroups as a purpose of discovering actionable routine strategies that are associated with better health status.

2017–2018 **Iterative Design of Visual Analytics for a Clinician-in-the-loop Smart Home**, *funded by National Institutes of Health (NIH); collaborated with clinicians, psychologists and nurses.*

With the increasing health needs of the coming "age wave", we design a clinician-in-the-loop visual interface, that provides clinicians with patient behavior patterns, derived from smart home data. The technology offers the potential to perform remote monitoring for supporting self-management.

2016–2018 **Designing an Ecologically-Valid Formal Model of Human Activity Patterns**, *funded by National Science Foundation (NSF).*

Formal modeling and analysis of human behavior is a popular topic in disciplines ranging from psychology to economics. We propose a formal model of indoor routine behavior based on automatically-sensed and recognized activities. These findings may be used to automate diagnoses and design customized behavioral interventions.

2015–2018 **Analyzing the relationship between human behavior and indoor air quality in smart homes**, *funded by Department of Energy (DOE) and Environmental Protection Agency Science To Achieve Results; collaborated with people from civil and environmental engineering.*

Because the quality of the air we experience inside and outside buildings may accompany behavior changes, we apply data science and machine learning technologies in smart home environments to understand the types of behavior that measurably impact indoor air quality.

Patent

2014 Glimm, James, Jimmie Goode, Beiyu Lin, Nicholas Pezolano, and Svetlozar Rachev. "Real time evaluation of financial returns based on nearly elliptical models." U.S. Patent Application 14/163,674, filed July 31, 2014.

Invited Talks

4/2024 Guest Lecture, EECS, Syracuse University.
5/2023 Science Cafe, College of Science, UNLV.
5/2023 SUNY-Binghamton.
3/2023 SUNY-Albany.
3/2023 Purdue University, West Lafayette.
3/2023 University of Louisville.
3/2023 University of Oklahoma.
3/2023 University of Central Florida.
2/2023 Ontario Tech University, Canada.
1/2023 University of Houston.
1/2023 West Virginia University.
12/2022 University of Cincinnati, Ohio.
12/2022 Villanova University, Pennsylvania.
11/2022 University of Groningen, Netherlands.
10/2022 Machine Learning and its applications, Tech Alley, Las Vegas, NV.

08/2022 Machine Learning and its applications, Dylan Curious Podcast, Las Vegas, NV.
04/2022 Symposium, Nevada Institute of Personalized Medicine, University of Nevada - Las Vegas.
03/2022 High Performance Computing Symposium, University of Nevada - Las Vegas.
01/2022 Seminar, Nevada Institute of Personalized Medicine, University of Nevada - Las Vegas.
05/2021 Computer Science, University of Nevada - Las Vegas.
05/2021 Business School, Long Island University.
04/2021 School of Computing and Information Systems, Singapore Management University.
04/2021 School of Data Science, University of Virginia.
04/2021 Computer Science, University of Connecticut.
03/2021 Computer Science, Eastern Michigan University.
03/2021 Computer Science, Towson University.
03/2021 Computer Science, University of the Pacific.
02/2021 Computer Science, San José State University.
01/2021 Computer Science, Northern Kentucky University.
01/2021 Department of Health & Biomedical Sciences, the University of Texas Rio Grande Valley.
12/2020 Department of Surgery, School of Medicine, the University of Texas Rio Grande Valley.
10/2020 Computer Science Seminar, the University of British Columbia Okanagan Campus.
09/2020 Neuroscience Research Seminar, School of Medicine, the University of Texas Rio Grande Valley.
09/2020 Human–Computer Interaction Seminar, the University of Texas Rio Grande Valley.
09/2020 Open Problem in Computer Science Seminar, the University of Texas Rio Grande Valley.
09/2020 Society of Photographic Instrumentation Engineers, the University of Texas Rio Grande Valley.
03/2020 Population-level behavior analysis at Merrimack College, Colby College, University of Texas Rio Grande Valley, University of New Haven (virtual), Dominican University (virtual).
03/2020 Programming in C, Pomona College (cancelled).
03/2020 Support Vector Machine, University of Rutgers (virtual).
03/2020 Stack in C, University of Connecticut (virtual).
03/2020 Society of Women Engineers, Undergraduate Research Mixer Event, WSU.
10/2019 Guest lecture, Machine Learning and its Applications at School of Economic Sciences, WSU.
03/2019 Guest lecture, Support Vector Machine for the class Introduction to Machine Learning, WSU.
03/2019 Analysis of Sensor Data Using Oracle Advanced Analytics, Analytics and Data Summit, CA.

Media Coverage/Impact

8/2022 Dylan Curious Podcast, Las Vegas: Machine Learning and its Applications
11/2020 ValleyMorningStar (newspaper in Harlingen, TX): UTRGV wins computer exploring award
11/2020 BrownsvilleHerald (newspaper in Brownsville, TX): UTRGV wins computer exploring award
11/2020 The Monitor (newspaper in Starr and Hidalgo counties): UTRGV wins computer exploring award
11/2020 UTRGV Newsroom: UTRGV one of 50 institutions to earn Google exploreCSR award
07/2019 Journal of Biomedical and Health Informatics: Medical Informatics
06/2019 ScienceDaily: Researchers uncover indoor pollution hazards
06/2019 WSU Insider: Researchers uncover indoor pollution hazards
06/2019 Nexus Newsfeed: Researchers uncover indoor pollution hazards
07/2015 WSU Insider: Researchers look into a future life indoors

Volunteer

Fall 2018	Mentor, ACM-W at WSU
Summer 2018	Instructor, Black Girls CODE, Atlanta, GA
Summer 2018	Mentor, Honeywell STEM program for High School Teachers
Summer 2017	Mentor, Google Summer of Code, Anita Borg Institute

Professional Services

Panel / Grant Proposal Reviewer

US Department of Transportation

National Science Foundation

New Frontiers in Research Fund – Exploration, Canada

DataKind: Reviewer for Google AI Impact Challenge

Organizer

PAKDD workshop Foundational AI for Pervasive Computing 2025

IEEE SMC 2022 International Conference on Systems, Man, and Cybernetics

Guest Editor

Special Issue in Electronics (IF: 2.690), MDPI, 2022.

Publicity Co-Chairs

International Conference on Artificial Intelligence in Healthcare (AIiH).

Session Chair

KDD, 2023

ACM/IEEE SEC, 2022

SDM, 2022

Student Forum Chair

DSAA 2024

Program Committee

SDM, 2023, 2024

ACM SIGSPATIAL, 2022

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (PKDD), 2022

ACM International Conference on Web Search and Data Mining (WSDM), 2022

SIAM International Conference on Data Mining (SDM), 2022

International Conference on Intelligent Environments (IE), 2021, 2022

International Workshop on Big Data Reduction, IEEE – Big Data, 2021,2022

Web Mining and Content Analysis track, WWW, 2021

ACM Student Research Competition, SIGCSE 2021.

SmartStudents'19, a workshop of IEEE International Conference on Smart Computing 2019

Reviewer

ACM Transactions on Intelligent Systems and Technology 2024

Mathematical and Computational Applications, MDPI, 2024
ACM BCB 2023
ACM Transactions on Computing for Healthcare
Pervasive and Mobile Computing
IEEE Transactions on Artificial Intelligence
Sci - MDPI
International Conference on Human-Computer Interaction – INTERACT 2021
The ACM Transactions on Knowledge Discovery from Data
IEEE International Conference on Big Data
International Journal of Environmental Research and Public Health
Web Search and Data Mining (WSDM'21)
MDPI Sustainability
Sensors
Remote Sensing
Applied Sciences Journal from MDPI
International Conference on Human-Computer Interaction – INTERACT 2019
Journal of Scientific Research and Reports (Science Domain International)
IEEE Transactions on Big Data