

## Ting Shen, Ph.D.

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### Appointment

- Assistant Professor, Missouri University of Science and Technology (August 2019 – Present)
- Postdoctoral Researcher, University of Missouri – Columbia (July 2018 – June 2019)
- Senior Research Scientist, Assessment Resource Center, University of Missouri – Columbia (July 2018 – June 2019)

### Education

- Ph.D., Measurement and Quantitative Methods, Michigan State University, East Lansing, U.S.
- M.S., Applied Statistics, Michigan State University, East Lansing, U.S.
- M.A., History of Education, East China Normal University, Shanghai, China
- B.A., English Literature, Huazhong Agricultural University, Wuhan, China

### Research Expertise

- Quantitative Research Methods (e.g., causal inference, Bayesian inference, machine learning)
- Big Data, Data Analytics, Large-Scale Assessment and Survey (LSAS)
- Empirical Quantitative Research in Social Sciences (e.g., Education and Psychology)
- Measurement and Evaluation

### Honors & Awards

- 2020, American Educational Research Association(AERA) Fellowship Award on the Study of Deeper Learning ([Link](#))
- 2020, Dr. Eugene Owen Scholarship from the Inter-university Consortium for Political and Social Research (ICPSR) ([Link](#))
- 2018, Travel Fund Fellowship, Graduate School, Michigan State University
- 2015, Summer Research Fellowship, College of Education, Michigan State University
- 2003, Excellent Student Scholarship, Huazhong Agricultural University
- 2002, Excellent Student Scholarship, Huazhong Agricultural University
- 2002, Environment Protection Knowledge Contest, First Prize, Huazhong Agricultural University

### Publications (Total 16 high-quality refereed journal papers; 13 papers for the current position)

\* Social Sciences Citation Index (SSCI); Arts & Humanities Citation Index (AHCI); Emerging Sources Citation Index (ESCI); Science Citation Index Expanded (SCIE); Journal Impact Factor (JIF); Journal Citation Indicator (JCI); Scientific Journal Rankings (SJR)

- Tong, Y. & **Shen, T.** (2025) Where There Is a Self: The Fictional Self-Process in Saul Bellow's Two Short Stories. *Journal of Narrative Theory* (In press).
  - JNT–AHCI; JCI 2023= 0.94; JCI-Literature Q2
- Fikru, M., **Shen, T.**, Brodmann, J. & Ma, H. (2024). A Strategic Insight into Market Dynamics and Policy Solutions for Carbon Management. *Sustainable Futures*.  
<https://doi.org/10.1016/j.sftr.2024.100374>
  - SF–ESCI; JIF 2023=3.3; JIF-Operations Research & Management Science Q2; JIF Percentile= 70
- **Shen, T.** (2024). Small-class effects on science achievement in secondary education. *Studies in Educational Evaluation*, 82, 101368. <https://doi.org/10.1016/j.stueduc.2024.101368>
  - SIEE–SSCI; JIF 2023=2.6; JIF-Education & Educational Research Q1; JIF Percentile=84
- **Shen, T.** (2024). Statistical Analyses with Sampling Weights in Large-Scale Assessment and Survey. *Practical Assessment, Research & Evaluation*. Practical Assessment, Research, and Evaluation 29(1): 4. <https://doi.org/10.7275/pare.2014>
  - PARE– Social Sciences- Education; Peer-refereed on-line journal; SJR Q2
- Permzadian, V. & **Shen, T.** (2024) Assessing the Predictive Validity of Expectancy Theory for Academic Performance. *BMC Psychology* 12:437. <https://doi.org/10.1186/s40359-024-01935-y>
  - *BMC Psychology*–SSCI; JIF 2023=2.7; JIF Percentile=77
- Tong, Y. & **Shen, T.** (2024). The Face of the Future: An Affective Mental Time Traveler in Saul Bellow's "A Father-to-Be". *Style*, 58(2), 190-209. <https://doi.org/10.5325/style.58.2.0190>
  - *Style*–AHCI; JCI=1.9; JCI-Literary Theory & Criticism Q1
- **Shen, T.** (2023). Family Environments and Educational Inequality during the COVID-19 Pandemic in the UK. *Education 3-13*. <https://doi.org/10.1080/03004279.2023.2285382>
  - *Education 3-13*–ESCI; JIF 2023=0.9; JIF Percentile=40
- Granberg, R., **Shen, T.**, Pearson, S., & Verble, R. (2023). Occupational and Environmental Factors Influencing Morale of United States Federal Wildland Firefighter. *International Journal of Wildland Fire*. <https://doi.org/10.1071/WF22098>
  - IJWF–SCIE; JIF 2023=2.9; JCI-Forestry Q1; JIF Percentile=85
- Konstantopoulos, S. & **Shen, T.** (2023). Class size and teacher effects on non-cognitive outcomes in grades K-3: a fixed effects analysis of ECLS-K: 2011 data. *Large-scale Assessments in Education*, 11(1), 1-24. <https://doi.org/10.1186/s40536-023-00182-8>
  - *Equal first author; name order is alphabetical*
  - LSAIE–ESCI; JIF 2023=2.6; JCI-Education & Educational Research Q1; JIF Percentile 84
- **Shen, T.** & Konstantopoulos, S. (2022). Incorporating Complex Sampling Weights in Multilevel Analyses of Education Data. *Practical Assessment, Research & Evaluation*, 27(13).  
<https://doi.org/10.7275/ptkw-5816>
  - PARE– Social Sciences- Education; Peer-refereed on-line journal; SJR Q2

- **Shen, T.** & Konstantopoulos, S. (2022). Are class size and teacher characteristics associated with cognitive outcomes in early grades? *School Effectiveness and School Improvement*, 33(3), 333-359. <https://doi.org/10.1080/09243453.2021.2023585>
  - SESI–SSCI; JIF 2023=2.8; JIF-Education & Educational Research Q1; JIF Percentile=87
- **Shen, T.** & Konstantopoulos, S. (2022). Complex sampling designs in large-scale education surveys: A two-level sample distribution approach. *Journal of Experimental Education*, 90(2), 469-485. <https://doi.org/10.1080/00220973.2021.1891007>
  - JEE–SSCI; JIF 2023=2.9; JIF-Education & Educational Research Q1; JIF Percentile=80
- **Shen, T.** & Konstantopoulos, S. (2021). Estimating causal effects of class size in secondary education: evidence from TIMSS. *Research Papers in Education*, 36(5), 507-541. <https://doi.org/10.1080/02671522.2019.1697733>
  - RPIE–SSCI; JIF 2023=2.1; JIF-Education & Educational Research Q1; JIF Percentile=77

*\*\*Publications before my tenure-track position at Missouri University of Science and Technology*

- Chudgar, A, Sakamoto, J., & **Shen, T.** (2019). Adverse family events and educational outcomes of young adults: Analysis from three waves of Young Lives Data from India. *International Journal of Educational Research*, 95, 168-175. <https://doi.org/10.1016/j.ijer.2019.02.010>
  - IJER– JIF 2023=2.6; JIF-Education & Educational Research Q1; JIF Percentile=84
- **Shen, T.** & Konstantopoulos, S. (2017). Class size effects on reading achievement in Europe: Evidence from PIRLS. *Studies in Educational Evaluation*, 53, 98-114. <https://doi.org/10.1177/016146811411600202>
  - SIEE–SSCI; JIF 2023=2.6; JIF-Education & Educational Research Q1; JIF Percentile=84
- Konstantopoulos, S. & **Shen, T.** (2016). Class size effects on mathematics achievement in Cyprus: evidence from TIMSS. *Educational Research and Evaluation*, 22(1-2), 86-109. <https://doi.org/10.1080/13803611.2016.1193030>
  - ERE–ESCI; JIF 2023=2.3; JIF-Education & Educational Research Q1; JIF Percentile=80

### **Manuscript Under Review (Total 10 papers)**

- **Shen, T.** Comparing Weighted Single-Level and Multi-Level Analyses in Large-Scale Assessment Survey (Under review JREE R&R2).
- Zhang, B., Wiedermann, W, & **Shen, T.** Causal Inference-Based Covariate Selection for Binary Variables: Strength and Limitations of the Linear Probability Model (Under review JEE).
- **Shen, T.** Teaching Effectiveness and Secondary Mathematics: Evidence from PISA – China (Under review ERPP R&R1).
- **Shen, T.** Deeper Learning Effect and Variation: Evidence from Quasi-Experimental Analysis (Under review AEPPP)

- **Shen, T.** & Permzadian, V. Teaching Effects on Secondary Mathematic: Evidence from PISA (Under review ERE)
- **Shen, T.,** & Konstantopoulos, S. Using Propensity Score Methods to Estimate Class Size Effects on Academic Achievement in Early Grades (Under review ER)
- Konstantopoulos, S & **Shen, T.** A Meta-analysis of the Causal Evidence of Class Size (Under review ER).
- Fikru, M. & **Shen, T.** Exploring Heterogenous Impacts of Business Regulatory Environment on R&D Activities (Under review IREF)
- Fikru, M., **Shen, T.,** & Melaku Abegaz. Co-Location of Carbon Management Projects with Pollution-Intensive Manufacturing: Evidence from US Zip Codes (Under review AE)
- Tong, YF, & **Shen, T.** A Neuroaesthetic Approach to Appraising the Yuan Play Injustice to Tou O (Under review CD)

### **Research in Progress (Total 11 papers and 1 invited book chapter)**

#### ***Book Chapter***

- **Shen, T.,** & Konstantopoulos Examining relationships between teachers' qualifications and students' outcomes for beginning teachers (Due June 2025)

#### ***Research Methods Papers***

- **Shen, T.** Complex Sampling Weights in Structural Equation Modeling (Working manuscript).
- **Shen, T.** Informative Tests in Large Scale Assessment Survey (Working manuscript).
- **Shen, T.** & Konstantopoulos, S. Weighted Statistical Analysis in Three-Level Modeling (Working manuscript).
- **Shen, T.** & Konstantopoulos, S. Comparing Software Programs in Conducting Model Analysis with Sampling Weights (Working manuscript).

#### ***Empirical Research Papers***

- **Shen, T.** Teaching Effectiveness on Math Achievement in East Asia (Working manuscript)
- **Shen, T.** Teacher Effects on Self-Regulation: Evidence from ECLS-K 2011 (Working manuscript).
- **Shen, T.** The Use of Information Communication Technology (ICT) and Social Median and Student Wellbeing: A Multi-Country Analysis (Working manuscript).

- **Shen, T.** The Impact of After-School Programs on Student Achievement (Working manuscript).
- **Shen, T. & Konstantopoulos, S.** Differences between Racial Student Groups in Class Size and Teacher Effects on Children’s Social Emotional Learning Skills (Working manuscript).
- **Shen, T. & Konstantopoulos, S.** Do Teacher Qualifications Matter to Student Learning Outcomes in Early Childhood? (Working manuscript)
- Konstantopoulos, S & **Shen, T.** Using Propensity Score Methods to Estimate Class Size Effects on Non-Cognitive Outcomes in Grades K-2 (Working manuscript).

### **Research Grant (funded total ~\$122K)**

- Project entitled “Advanced manufacturing of critical and high-performance alloys from non-critical materials” funded by the Office of the Vice Chancellor for Research and Innovation (Ignition Grant Initiative) Role: **Co-PI** (November 2024 – October 2025, **\$27,000**) (Intramural funding)
- Project entitled “Physical Artificial Intelligence-enabled Mathematical Modeling for Two-Phase Ferrofluid Flows via Experimentation” funded by the Office of the Vice Chancellor for Research and Innovation (Ignition Grant Initiative). Role: **Co-PI** (November 2024 ~ October 2025, **\$30,000**) (Intramural funding).
- Project entitled “Advanced manufacturing of novel iron silicate nanoparticles strengthened iron for nuclear applications” funded by the Office of the Vice Chancellor for Research and Innovation. Role: **Co-PI** (Seed funding) (November 2024 ~ August 2025, **\$15,733.76**) (Intramural funding)
- Project entitled “Additive manufacturing of novel cobalt-free nanoprecipitate-strengthened multi-principal element alloys for nuclear applications”, funded by the Intelligent Systems Center (ISC). Role: **Co-PI** (August 2024 ~ May 2025, **\$10,658.75**) (Intramural funding).
- Project entitled “The Socio-Economic Impact of Carbon Capture Technologies on Host Communities”, funded by the Center for Science, Technology, and Society (CSTS). Role: **Co-PI** (July 2024 ~June 2025, **\$9,445**) (Intramural funding).
- Project entitled “Deeper Learning Effectiveness and Variation: Evidence from Quasi-experimental Analysis”, funded by The William and Flora Hewlett Foundation via American Educational Research Association (AERA). Role: **PI** (January 2020~ July 2022, **\$25,000**) (External funding).
- Project entitled “A Meta-Analysis on the Effects of Gamification on Student Learning and Success”, funded by the Center for Science, Technology, and Society. Role: **Co-PI** (July 2020 ~June 2021, **\$3,500**) (Intramural funding).

### **Research Proposals as PI (Not funded)**

- Proposal entitled “CAREER: Complex Sampling Weights and Statistical Analysis for STEM Education in Large-Scale Data” was submitted to the National Science Foundation in July 2024 (Budget \$ 745,561).
- Proposal entitled “CAREER: Improving Math Education with Game-Based Learning by Building Research Evidence Project Summary” was submitted to the National Science Foundation in Summer 2021 (Budget \$ 426,304).
- Proposal entitled “Building A Nomological Network on Gamification in STEM Education” was submitted to the National Science Foundation in fall 2020 (Budget \$ 133,396).
- Proposal entitled "Efficacy of Gamification in PreK-12 STEM Education: A Meta-analysis and Meta-synthesis Study" was submitted to the National Science Foundation in October 2020 (Budget \$ 49,580).
- Proposal entitled “The Impact of Federal After-School Program on Academic Achievement” was submitted to the Russel Sage Foundation in February 2020 (Budget \$ 20,000).
- Proposal entitled “Does small class improve student academic achievement and social emotional skills in special education in year childhood” was submitted to Spencer Foundation in April 2020 (Budget \$ 49,997).
- Proposal entitled “The Impact of Information Communication Technology Use and Engagement on Student Achievement and Wellbeing: A Multi-Country Analysis” was submitted to the American Educational Research Association in March 2020 (Budget \$ 20,000).
- Proposal entitled "Efficacy of Gamification in K-12 Education: A Meta-analysis and Meta-synthesis study" was submitted to the Spencer Foundation in November 2020 (Budget \$ 49,579).
- Proposal entitled "Building Research Evidence through a Meta-analysis Study of Gamification in Education" was submitted to the William T. Grant Foundation in August 2020 (Budget \$ 49,799.93).
- Proposal entitled “Exploring the Association between Family Learning Environments and Children’s Education Inequality during the Pandemic Crisis” was submitted to the Spencer Foundation – Special Grant in June 2020 (Budget \$ 49,837.66).
- Proposal entitled “Class size and teacher effects on reducing gaps of cognitive and non-cognitive outcomes in early grade” to the William T. Grant Foundation in October 2020 (Budget \$ 49,932).

#### **Research Proposals as Co-PI (Not funded)**

- Proposal entitled “Physical artificial intelligence and experimentation-enabled mathematical reasoning for two-phase ferrofluid flow modeling" was submitted to National Science Foundation in January 2025 (Budget \$ 693,771)

- Proposal entitled “FMRG: Eco: Reimagining High-temperature Alloys: Future Manufacturing from Non-critical Materials (Part Sup)” was submitted to National Science Foundation in Spring 2024 (Budget \$3M)
- Proposal entitled “Creating a Destination of Choice at Missouri University of Science and Technology” was submitted to National Science Foundation in Spring 2024 (Budget \$ 998,223)
- Proposal entitled “JST: SCC-PG: Efficient Geo-located Multimodal Data Collection and Analytics for Personalized Healthcare” was submitted to National Science Foundation in Spring 2024 (Budget \$ 150,000)

## Refereed Conference Presentations

### 2025

- **Shen, T.** Teaching Effectiveness on Math Achievement: Evidence from Fourteen Countries and Economies. Paper Presentation at the 23rd Annual Hawaii International Conference on Education, Honolulu, Hawaii, USA (January 4-7, 2025). (*International conference*)
- **Shen, T.** Konstantopoulos, S & Shen, T. A Meta-analysis of the Causal Evidence of Class Size (Working manuscript). Poster Presentation at the 50<sup>th</sup> Annual Conference for the Association for Education Finance and Policy (AEFP). (March 13-15, 2025). (*National conference*)

### 2024

- **Shen, T.** & Konstantopoulos, S. Using Propensity Score Methods to Estimate Class Size Effects on Academic Achievement in Early Grades. Paper Presentation at the American Educational Research Association (AERA) Annual Meeting, Philadelphia, Pennsylvania (April 11-14, 2024). (*National conference*)
- Konstantopoulos, S. & **Shen, T.** Differences in Class Size and Teacher Effects Between Racial Student Groups: Evidence from ECLS-K:2011. Paper Presentation at the American Educational Research Association (AERA) Annual Meeting, Philadelphia, Pennsylvania (April 11-14, 2024). (*National conference*)
- **Shen, T.** & Zhang, Y. Comparing Software Programs in Conducting Model Analysis with Sampling Weights. Paper Presentation at the American Educational Research Association (AERA) Annual Meeting, Philadelphia, Pennsylvania (April 11-14, 2024). (*National conference*)

### 2023

- Konstantopoulos, S. & **Shen, T.** The Impact of Class Size Reduction on Student Achievement: A Meta-Analysis of Causal Evidence (Presidential Session). Paper Presentation at the Southern Economic Association Annual Meeting, New Orleans, Louisiana (November 18-20, 2023). (*National conference*)

- Permzadian, V. & **Shen, T.** The Effect of Academic Performance Goals on Specific Course Grades: An Expectancy Theory Application. Virtual Poster Presentation at the American Psychological Association (APA) Convention, Washington D.C. (August 3-5, 2023). (*National conference*)
- **Shen, T.** Weighted Single-Level and Multi-Level Analyses in Large-Scale Assessment Surveys Poster Presentation at the American Educational Research Association (AERA) Annual Meeting, San Diego, California (April 13-16 & May 4-5, 2023). (*National conference*)

## 2022

- **Shen, T.** & Konstantopoulos, S. A Model Based Approach for Complex Sampling Designs in Education Survey. Paper Presentation at the American Educational Research Association (AERA) Annual Meeting, San Diego, California (April 21-26, 2022). (*National conference*)
- **Shen, T.** Deeper Learning Effect and Variation: Evidence from Quasi-Experimental Analysis. Invited Poster Presentation at AERA Annual Meeting Poster Session: Excellence in Education Research: Early Career Scholars and Their Work, San Diego, California (April 21-26, 2022) (*National conference*)
- **Shen, T.** Education Inequality in Home Environments in the UK during COVID-19. Poster Presentation at the Population Association of America (PAA) Annual Meeting, Atlanta, Georgia, (April 6-9, 2022). (*National conference*)
- **Shen, T.** Class Size and Student Evaluation of Teaching: Relationship and Variation. Poster Presentation at the 46<sup>th</sup> Annual Conference for the Association for Education Finance and Policy (AEFP), Denver, Colorado, (March 17-19, 2022). (*National conference*)

## 2021 (Virtual Conferences during the COVID Pandemic)

- **Shen, T.** What is the Impact of Class Size Reduction on Student Outcomes? A Meta-Analysis. (Virtual) Paper Presentation at the European Education Research Association (EERC) Annual Meeting. (September 6-10, 2021). (*International conference*)
- **Shen, T.** A Meta-Analysis of School-Based Interventions on Children's Self-Regulation. (Virtual) Poster Presentation at American Psychological Association (APA) annual convention. (August 12-15, 2021). (*National conference*)
- **Shen, T.** Are Family Learning Environments Related to Children's Education Inequality in the Pandemic? (Virtual) Poster Presentation at the Population Association of America (PAA) annual meeting (May 5-8, 2021). (*National conference*)
- **Shen, T.** Class-Size Effects on Science Learning Outcomes in Secondary Education. (Virtual) Paper Presentation at the 65 Annual Conference of the Comparative and International Education Society (CIES) (April 25-May 2, 2021). (*International conference*)
- Hightower, G. & **Shen, T.** The Effect of EF Interventions for Children with Special Needs on Working Memory, Flexibility, and Inhibition: A Meta-Analysis. (Virtual) Poster Presentation at the



93rd Midwestern Psychological Association (MPA), Chicago, IL (April 22-24, 2021). (*Regional conference*)

- **Shen, T.** Deeper Learning Effectiveness and Variation on Mathematic Achievement. AERA Annual Meeting (Virtual) Poster Session: Excellence in Education Research: Early Career Scholars and Their Work (April 8-12, 2021) (*National conference*)
- **Shen, T. & Burns, D.** Examining Association between Class Size and Student Evaluation of Teaching. (Virtual) Poster Presentation at the 46<sup>th</sup> Annual Conference for the Association for Education Finance and Policy (AEFP). (March 17-19, 2021). (*National conference*)
- **Shen, T.** Association between Family Environments and Children's Education in the Pandemic. (Virtual) Paper Presentation at 34th International Congress for School Effectiveness and Improvement (ICSEI) (March 8-9 & 17-18, 2021). (*International conference*)

## 2020 (Virtual Conferences during the COVID Pandemic)

- Wang, Y., Nah, F. & **Shen, T.** A Meta-Analysis: Gamification in Education. (Virtual) Paper Presentation at the 19<sup>th</sup> Annual HCI Research in MIS. (Dec. 13-16, 2020). (*International conference*)
- **Shen, T. & Li-Grining, C.** A Meta-Analysis Study of School-Based Intervention Programs on Executive Function. (Cancelled) Paper Presentation at the 92<sup>nd</sup> Midwestern Psychological Association (MPA), Chicago, IL (April 23-25, 2020). (*Regional conference*)
- **Shen, T.** Incorporating Complex Sampling Weights in Model Analysis Using Large-Scale Data: A Software Investigation. (Virtual) Paper Presentation at the 32nd Association of Psychological Science (APS) Annual Convention in Chicago, IL, USA (May 21-24, 2020). (*National conference*)
- **Shen, T.** What are Effective Teaching Practices on Secondary Mathematics? Evidence from PISA Shanghai and U.S Data. (Virtual) Paper Presentation at the 64 Annual Conference of the Comparative and International Education Society (CIES), Miami, USA (March 22-26, 2020). (*International conference*)

## 2019

- Konstantopoulos, S. & **Shen, T.** Estimating Causal Effects of Class Size in Secondary Education: Evidence from TIMSS. Paper Presentation at the 88th International Atlantic Economic Conference, Miami, USA (October 17-20, 2019). (*International conference*)
- **Shen, T. & Hairston, T.** Evaluating School Principals: Evidence from a Large, Network-Based Teacher Survey. Poster Presentation at the Global Conference on Education and Research (GLOCER), University of South Florida (May 21-24, 2019). (*Regional conference*)
- **Shen, T., Bergin, C. & Lee, S.** Teacher Evaluation Using Student Survey: A Systematic Review. Poster Presentation at the Association for Education Finance and Policy (AEFP), the 44<sup>th</sup> Annual Conference. Kansas City, Missouri (March 21-23, 2019). (*National conference*)

## Before 2019

- **Shen, T.** & Konstantopoulos, S. The Long-Term Effects of Class Size: Evidence from ECLS-K 2011. Paper Presentation at the American Educational Research Association (AERA) annual meeting in the session entitled “Early Childhood Research: Literacy, Assessment, & Class size”, New York (April 13-17, 2018). (*National conference*)
- **Shen, T.** & Konstantopoulos, S. Incorporating complex sampling designs in multilevel modeling in Education. Paper Presentation at the Society for Research on Educational Effectiveness (SREE) annual meeting, Washington, D.C. (February 28-March 3, 2018). (*National conference*)
- **Shen, T.** & Konstantopoulos, S. Class size effect on reading achievement: Evidence from eight European countries. Paper Presentation at the 19<sup>th</sup> International Conference on Teaching and Learning in Higher Education ICTLHE. Paris, France (June 25-26, 2017). (*International conference*)
- Konstantopoulos, S. & **Shen, T.** Class-size Effects on Mathematics Achievement in Cyprus: Evidence from TIMSS 2003 and 2007 Paper Presentation at the EARLI SIG educational effectiveness meeting, Southampton, U.K (September 2014). (*International conference*)

## Teaching (University of Missouri System)

- **Missouri University of Science and Technology (2019 fall to present)**
  - STAT 1115 Introduction to Statistics in Social Sciences (Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024, Spring 2025)
  - STAT 2001 Introduction to Applied Statistics (Spring 2021, Fall 2021)
  - EDUC 3340 Assessment of Student Learning (Fall 2020)
  - PSYCH 5201 Psychometrics (Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024, Spring 2025)
  - PSYCH 5210 Advanced Research Methods (Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
- **University of Missouri – Columbia (Spring 2019)**
  - ESCP 7170 Introductory Statistics (Spring 2019):

## Professional Affiliations

- American Educational Research Association (AERA)

- Association for Education Finance and Policy (AEFP)
- Comparative and International Education Society (CIES)
- American Psychological Association (APA)

### **Research Center Member at Missouri University of Science and Technology**

- Center for Science, Technology, and Society (CSTS) <https://csts.mst.edu/>
- Intelligent Systems Center (IST) <https://isc.mst.edu/>

### **Professional Development (Training and Workshops)**

- Early Career Faculty Workshops, Missouri University of Science and Technology (Fall 2023 - Summer 2024)
- Society for Industrial and Organizational Psychology (SIOP) Annual Conference 2024 (April 17-20, 2024).
- Society for Industrial and Organizational Psychology (SIOP) Annual Conference 2023 (April 19-22, 2023).
- Advance Workshops on Diversity, Equity and Inclusiveness (Spring 2023 – Fall 2023)
- AERA Professional Development Course: Latent Code Identification (LACOID): Cultivating Programming-Free, Equitable Access to Data Science Tools in Education Research (April 23, 2022).
- AERA Professional Development Course: Teaching and Learning Qualitative Research Methods Principles Through Popular Film Clips (April 13, 2021).
- Online Teaching Certification Seminar - Center for Advancing Faculty Excellence, Missouri University of Science and Technology (Spring, 2021)
- The ICPSR (Inter-university Consortium for Political and Social Research) Summer Program in Quantitative Methods of Social Research (Machine Learning Course) (August 3 -7, 2020).
- Deeper learning Data Training, Washington, DC (October 30th – 31<sup>st</sup>, 2019).
- Summer Research Workshop on Cluster-Randomized Trials Sponsored by Institute of Education Sciences, Northwestern University, Evanston, Illinois (July 8-18, 2019).
- Qualitative Data Analysis Using NVivo software, University of South Florida, Sarasota, FL (May 21, 2019).

- Introductory Python one-day course with certification, University of Missouri - Columbia, MO (January 26, 2019).
- Network for Educator Effectiveness (NEE) User Conference, Columbia, MO (Sep. 19, 2018).
- Preparing Future Faculty (PFF) Program (weekly seminar in one academic year), University of Missouri, (August 2018-May 2019).
- Meta-Analysis workshop, sponsored by Institute of Education Sciences, Loyola University Chicago, IL (August 5-11, 2018).
- SQL programming training with certificates. University of Missouri - St. Louis, MO (July, Aug & Dec. 2018).
- NAEP workshop provided by National Center for Education Statistics (NCES). Washington DC, (June 18-20, 2018).
- Stan: A flexible open-source platform for Bayesian analysis. SREE workshop (March 2018).

## **Professional Service**

### ***Editorial Board***

- International Journal of Psychology and Behavior Analysis (IJPBA) (Peer-review open access journal) (Feb. 2023-current)  
[https://www.graphyonline.com/journal/editorial\\_board\\_by\\_scope.php?journalid=IJPBA](https://www.graphyonline.com/journal/editorial_board_by_scope.php?journalid=IJPBA)

### ***Ad-Hoc Journal Reviewer***

- Educational Studies (2021, 2022)
- Journal of Experimental Education (2021)
- Educational Researcher (2019)
- Comparative Education Review (2019)
- Educational Evaluation and Policy Analysis (2019)
- Studies in Educational Evaluation (2018, 2020, 2021, 2022, 2023)
- Practical Assessment, Research & Evaluation (2023)
- Discover Education (2024)
- Educational Psychology (2024, 2025)

### ***Grant Proposal reviewer***

- NSF panelist (2021)

### ***Conference Service***

- Academy of Management Conference (AOM)– Division (TLC) Teaching & Learning Conference (Reviewer) (2025)
- American Educational Research Association (AERA) Annual Meeting (2023) Session Chair
- AERA 2023 Conference Proposals Reviewer (2022)
  - Division D – Measurement and Research Methodology
  - SIG – Educational Statistics
- European Education Research Association (EERA) Annual Meeting (2021) Session Chairperson
- AERA 2021 Conference Proposals Reviewer (2020)
  - Division D – Measurement and Research Methodology
  - SIG – Educational Statisticians

### ***University and Department (Missouri S&T)***

- Diversity Equity Inclusion (DEI) Department Committee Chair (September 2024~ current)
- Department Assessment Committee (June 2022~current)
- NSF ADVANCE department faculty advocate (January 2023 ~current)
- Department Webpage Design, Post, and Maintenance (June 2022~current)
- Department I/O Psychology Program Faculty Search Committee (Summer & Fall 2023)
- Department Chair Search Committee (Spring and Summer 2023)
- Graduate Program Committee in the Department of Psychological Science (September 2019~ August 2024)
- Faculty Judge for Graduate Poster Sessions (April 2022)
- Faculty Judge for Undergraduate Research Conference (April 2021; April 2022)
- OURE (Opportunities for Undergraduate Research Experiences) Open House (April 2023)

### ***Student Mentoring***

- Seed grant project entitled “The Socio-Economic Impact of Carbon Capture Technologies on Host Communities” Bruktawit M. Ahmed (July 2024-June 2025)
- FYRE (First-Year Research Experience) program (Spring 2020, Spring 2024, Spring 2025)
- OURE (Opportunities for Undergraduate Research Experiences) (Fall-2020-Spring 2021)  
Gabrielle Hightower - Project title “The Effect of Executive Function Interventions for Children with Special Needs: A Meta-analysis”
- Master thesis co-advisor (Fall 2020~May 2021)  
Yalin Wang - Thesis title “A meta-analysis: gamification in education”
- Master thesis consultation (Spring 2021)  
Debasis Roy - Thesis title “Identifying eye-tracking metrics to indicate sleepiness: A meta-analysis”

### ***Statistical Consulting Service***

- Statistical Consulting Center, Michigan State University (November 2016~March 2017)