ZEWEI LIN

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McCoy College of Business, Texas State University
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ACADEMIC APPOINTMENTS

Tenure-Track Assistant Professor, 2024 - Present
Department of Information Systems and Analytics, McCoy College of Business, Texas State University

EDUCATION

Ph.D. in Business Administration (Major: Business Analytics), 2019 - 2024
Carl H. Lindner College of Business, University of Cincinnati

B.S. in Mathematical Statistics | B.A. in Philosophy | B.Ec. in Economic Statistics, 2015 - 2019
Renmin University of China

RESEARCH EXPERIENCE

Research Interests: Business Analytics, Model Transparency, Model Diagnostics, Discrete Data, Network Inference, Statistical Inference/Machine Learning in Finance/Information Systems.

— *To fulfill business needs and regulatory requirements, my research focuses on developing statistical/machine learning methods to address the multifaceted challenges associated with* ***model transparency****. The goal is to understand the inner workings of complex models, thereby promoting* ***more transparent, trustworthy, and interpretable data-driven decision-making models****. I primarily work on problems that involve* ***discrete data (e.g., binary, rating or count data)*** *which amplify statistical challenges and call for new developments.*

Published Papers:

- Liu, D., **Lin, Z.**, & Zhang, H. (2025). "A unified framework for residual diagnostics in generalized linear models and beyond." *Journal of the American Statistical Association*, 1–13. [DOI]. (ABDC: A*)
- Zhu, X., **Lin, Z.**, Liu, D., & Greenwell, B. (2024). "*Surr_rsq*: An R package for evaluating goodness of fit using surrogate R^2." *The New England Journal of Statistics in Data Science*, 1–12. [DOI] [Package]. (R package downloads: 5,072)
- Liu, D., Zhu, X., Greenwell, B., & **Lin, Z.** (2022). "A new goodness-of-fit measure for probit models: Surrogate R^2." *British Journal of Mathematical and Statistical Psychology*, 76, 192–210. [DOI]. (ABDC: B)

Working Papers:

- **Lin, Z.**, Liu, D., & Bauer, D. "A novel perspective of procedural fairness of insurance rating algorithms: A Tweedie surrogate approach." Targeting *Management Science* (ABDC: A*, UTD 24).
- **Lin, Z.**, Liu, D., & Greenwell, B. "unifres: Implementing a unified framework for residual diagnostics in R and Python." Targeting *Journal of Statistical Software* (ABDC: A, IF: 8.1).
  - The R and Python packages are currently available on GitHub.
- Liu, Y., Wang, P., Huang, J., **Lin, Z.**, & Rai, A. "Data-informed scoping for configurational research: A toolkit for identifying attributes forming plausible configurations." Targeting *Management Information Systems Quarterly* (ABDC: A*, UTD 24).

Research in Progress:

- "Semiconductors: Ultrawide bandgap aluminum nitride vertical power devices," with Lee, M.-H. & D. H. Mudiyanselage.
- "Feasibility, acceptability, and usability of the Resilience, Community, Learning, and Education (CIRCLE) program," with Shieu, B.

- "Joint modeling of multivariate discrete outcomes? An exploratory framework and its application for the design of information systems," with Samuel, B., & Liu, D.
- "Analyzing conflicting information via multi-dimensional textual network analysis framework," with Zu, T.

GRANTS AND SPONSORED RESEARCH

- Lone Star Collaborative Health Research Pilot Grant — Submitted: 05/01/2026
  The CIRCLE Program: A Pilot and Feasibility Study Through Community Collaboration.
  Role: Co-PI; Amount requested: $100,000.
- Division of Research's Funding Opportunity for Strategic Research Priorities — Submitted: 04/13/2026
  Semiconductors: Ultrawide Bandgap Aluminum Nitride Vertical Power Devices.
  Role: Co-PI; Amount requested: $75,000.
- Research Enhancement Program — Funded: 05/2026–05/2027
  A Novel Perspective of Procedural Fairness of Insurance Rating Algorithms: A Tweedie Surrogate Approach.
  Role: PI; Amount awarded: $10,000.
- McCoy College Faculty Development Grant — Funded: 10/2025–08/2026
  Recipient; Amount awarded: $2,500.
- McCoy College Dean's Summer Research Stipend Program — Funded: 05/2025–09/2025
  Recipient; Amount awarded: $8,000.

AWARDS

- Competitively Selected Participant, Institute of Mathematical Statistics New Researchers Conference 07/2025
- OBAIS Department Graduate Student Teaching Award Recipient 02/2023
- Student and Early-Career Travel Awards, Symposium on Data Science and Statistics 06/2022
- Student Poster Awards (Sponsored by Munich Re), New England Statistics Symposium 05/2022
- *Mingde* Excellent Student Scholarship, Renmin University of China 06/2017

PRESENTATIONS

- **Invited session**, "*A novel perspective of procedural fairness of insurance rating algorithms: A Tweedie surrogate approach*", POMS Annual Meeting, Reno, NV. 05/2026
- **Invited session**, "*A unified framework for residual diagnostics in generalized linear models and beyond.*", INFORMS Annual Meeting, Atlanta, GA. 10/2025
- **Invited session**, "*A unified framework for residual diagnostics in generalized linear models and beyond.*", The Institute of Mathematical Statistics New Researchers Conference, Nashville, TN. 07/2025
- **Contributed session**, "*Unfolding Tweedie model for insurance pricing: a diagnostic tool leading to actionable insights*", INFORMS Annual Meeting, Phoenix, AZ. 10/2023
- **Contributed papers session**, "*Unfolding Tweedie model for insurance pricing: a diagnostic tool leading to actionable insights*", the Joint Statistical Meetings (JSM), Toronto, ON. 08/2023
- **Contributed poster**, "*A unified framework for residual diagnostics in generalized linear models and beyond*", ICSA Applied Statistics Symposium, Ann Arbor, MI. 06/2023
- **Invited session**, "*Surrogate R^2: a new goodness-of-fit measure and an R package for categorical data analysis*", New England Statistics Symposium (NESS), Boston, MA. 06/2023
- **Contributed poster**, "*Unfolding Tweedie model for insurance pricing: a diagnostic tool leading to actionable insights*", The Eighth Bayesian, Fiducial and Frequentist conference (BFF8), Cincinnati, OH. 05/2023

- **Contributed poster**, "*Model diagnostics of discrete data regression: a unifying framework using functional residuals*", the Joint Statistical Meetings (JSM), Washington D.C. 08/2022
- **Refereed session with travel award**, "*Model diagnostics of discrete data regression: a unifying framework using functional residuals*", Symposium on Data Science and Statistics (SDSS), Pittsburgh, PA. 06/2022
- **Student award presentation**, "*Model diagnostics of discrete data regression: a unifying framework using functional residuals*", New England Statistics Symposium (NESS), Mansfield, CT. 05/2022
- **Contributed session**, "*Analyzing conflicting information via multi-dimensional textual network analysis framework*", INFORMS Annual Meeting, Virtual. 10/2020

TEACHING EXPERIENCE

Teaching Interests

- Introduction level courses: Introduction to Business Analytics, Descriptive Analytics, Predictive Analytics, Prescriptive Analytics, Business Intelligence.
- Advanced level courses: Applied Linear Regression, Statistical Modeling, Data Mining, Optimization Methods in Analytics, Big Data Analytics, Probability models.
- Programming courses: AI and Machine Learning Algorithm, Data Wrangling, Text Mining, Statistical Computing, Data Manipulation and Visualization with Python/R.

Instructor, Texas State University

- **ANLY 3341 Computational Analytics** (Undergraduate level) Fall 2024, Fall 2025, Spring 2026
- **ANLY 5332 Optimization for Business Analytics** (Graduate level) Fall 2024, Fall 2025
- **ANLY 5335 Forecasting & Simulation** (Graduate level) Spring 2025, Spring 2026

Instructor, University of Cincinnati

- Online courses:
  - **BANA 4085 Spreadsheet Analytics** (Undergraduate level, Eval: 8.0/8.0) Spring 2021
  - **BANA 7046 Data Mining I** (Graduate level, Eval: 7.3/8.0) Spring 2022
- Hybrid courses:
  - **BANA 6043 Statistical Computing** (Graduate level, Eval: 7.8/8.0) Fall 2021
- In-person courses:
  - **BANA 7025 Data Wrangling** (Graduate level, Eval: 7.6/8.0) Fall 2022
  - **BANA 7046 Data Mining I** (Graduate level, Eval: 7.8/8.0) Spring 2023

Teaching assistant

— *Undergraduate level courses*

- BANA 2081 Business Analytics I
- BANA 2082 Business Analytics II
- BANA 4085 Spreadsheet Analytics
- BANA 4137 Descriptive Analytics and Data Visualization
- BANA 4143 Data Management for Analytics

— *Graduate level courses*

- BANA 6043 Statistical Computing
- BANA 7052 Applied Linear Regression
- BANA 7046 Data Mining I
- BANA 7047 Data Mining II

Second Reader for Capstone Essays

— *The Capstone essay forms an essential part of the Master of Science in Business Analytics curriculum, necessitating a comprehensive analysis grounded in a real-world data project.*

— *I served as the second reader for **14 individual projects**, covering a wide spectrum of topics. These spanned from **forecasting demand and segmenting customers to analyzing customer reviews, classifying toxic comments, and predicting medical claims**.*

PROFESSIONAL SERVICE

Reviewer / Referee

- The Canadian Journal of Statistics 2025–Present
- Statistica Sinica 2025–Present
- Journal of the American Statistical Association 2025–Present
- Statistics and Probability Letters 2024–Present
- AStA Advances in Statistical Analysis 2024–Present
- INFOR: Information Systems and Operational Research 2024–Present

Department/College Service

- Member, Faculty Search Committee – Assistant Professor of Instruction 2025–2026

PROFESSIONAL MEMBERSHIPS

- Member, The Institute for Operations Research and the Management Sciences (INFORMS).
- Member, American Statistical Association (ASA).
- Member, Institute for Mathematical Statistics (IMS).
- Member, New England Statistical Society (NESS).

SKILLS

Programming	R, Python, SPSS, SAS, C++, Matlab, Stata, and Eviews.
R Packages Developed	SurrogateRsq.
Languages	English (fluent); Chinese (native); Japanese (N3).