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CONTACT INFORMATION

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EDUCATION

August, 2014	Ph.D., Statistics, Oklahoma State University
2009	B.S., Computational Mathematics, Dalian University of Technology, China

PROFESSIONAL EXPERIENCE

2020-present	Associate Professor, Department of Mathematics & Statistics, Villanova University
2014-2020	Assistant Professor, Department of Mathematics & Statistics, Villanova University
2009-2014	Teaching Assistant, Department of Statistics, Oklahoma State University
2012, fall	Research Assistant, Department of Statistics, Oklahoma State University

RESEARCH INTERESTS

Inference on Ranked-Set Sampling, Multiple Comparisons, Statistical Learning

AWARDS

2014	Carl E, Marshall Award, Outstanding Ph.D. Graduate in Statistics 2014, Oklahoma State University
2013	Bob Morrison Scholarship, College of Arts and Sciences, Oklahoma State University
2010	M2010 Data Mining Conference Travel Grant, Business School, Oklahoma State University
2005-2006	Mathematics Outstanding Student Scholarship, Dalian University of Technology

GRANTS

2025	Villanova University Conference Travel Grant.
2024	Villanova CLAS Faculty Research and Development Grant.
2020	Villanova University Summmer Research Grant, "Spatio-temporal Modeling of the Relationship Between Surface Temperature, Ambient Temperature and Urban Structure in Metropolitan Urban Systems".
2018-19	Villanova Institute for Teaching and Learning minigrant, "A Hybrid Flipped Classroom Model on Introductory Data Mining Course: A Blend of Lecture and Flipped Learn".

REFERRED PUBLICATIONS

Frey, J., and Zhang, Y. (2025). "Robust adjusted Wald confidence intervals for a proportion based on ranked-set sampling," *Journal of Statistical Computation and Simulation*, In Press.

Muller, M., de Almeida Correia, G. H., Park, S., Zhang, Y., Fusco, B., & Lee, R. (2025). "Strategic sustainability assessment of rideshare and automated vehicles using the analytical hierarchy process (AHP)," *Research in Transportation Business & Management*, 60, 101336.

Muller, M., de Almeida Correia, G. H., Park, S., Zhang, Y., Fusco, B., & Lee, R. (2024). "Enhancement of the Impacts 2050 Model to Enable a Whole System Sustainability Assessment of Rideshare," *Multimodal Transportation*, 3(4), 100171.

Scolio, M., Kremer, P., Zhang, Y., and Shakya, K. M. (2024). "Spatial-temporal modeling of the relationship between surface temperature and air temperature in metropolitan urban systems," *Urban Climate*, 55, 101921.

Frey, J. and Zhang, Y. (2023). "Melded Confidence Intervals Do Not Provide Guaranteed Coverage," *The American Statistician*, 78(3), 273-279.

Frey, J. and Zhang, Y. (2023). "Nonparametric Maximum Likelihood Estimation of the Distribution Function Using Ranked-Set Sampling," *Journal of the Korean Statistical Society*, 52(4), 901-920.