

Frey, J. and Zhang, Y., (2021) “Robust Confidence Intervals for a Proportion Using Ranked-Set Sampling,” *Journal of the Korean Statistical Society*, 50(4), 1009-1028.

Frey, J. and Zhang, Y., (2019) “Improved Exact Confidence Intervals for a Proportion Using Ranked-Set Sampling,” *Journal of the Korean Statistical Society*, 48(3), 493-501.

Frey, J. and Zhang, Y. (2019) “An Omnibus Two-Sample Test for Ranked-Set Sampling Data,” *Journal of the Korean Statistical Society*, 48(1), 106-116.

Shakya1, K., Peltier, R., Zhang, Y., Pandey., B. (2019) “Roadside exposure and inflammation biomarkers among a cohort of traffic police in Kathmandu, Nepal.” *International Journal of Environmental Research and Public Health*, 16(3), 377.

Kremer, P. , Larondelle, N., Zhang, Y., Pasles, E., and Haase, D. (2018) “Within-class and neighborhood effects on the relationship between composite urban classes and surface temperature, ” *Sustainability*, 10(3), 645.

Frey, J. and Zhang, Y. (2018) “An Algorithm with Applications in Ranked Set Sampling.” *Journal of Statistical Computation and Simulation*, 88(3), 471-481.

Frey, J. and Zhang, Y. (2017) “Testing Perfect Rankings in Ranked-Set Sampling with Binary Data.” *The Canadian Journal of Statistics*, 45(3), 326-339.

Frey, J. and Zhang, Y. (2017) “What Do Interpolated Nonparametric Confidence Intervals for Population Quantiles Guarantee?” *The American Statistician*, 71(4), 305-309.

PRESENTATIONS “ Robust Adjusted Wald Confidence Intervals for a Proportion Based on Ranked-Set Sampling”, *The 2024 Joint Statistical Meetings, Portland, Oregon, August 2024*.

“Nonparametric Maximum Likelihood Estimation for Distribution Functions with Ranked Set Samples”, Invited, *School of Mathematics and Statistics, Jishou University, China, June 2024*.

“Melded Confidence Intervals Do Not Provide Guaranteed Coverage”, Invited, *School of Mathematical Sciences, Dalian University of Technology, China, June 2024*.

“ Nonparametric Maximum Likelihood Estimation for Distribution Functions with Ranked Set Samples”, *The 2023 Joint Statistical Meetings, Toronto, Canada, August 2023*.

“ Robust Confidence Intervals for a Proportion Using Ranked-Set Sampling”, *The 2020 Joint Statistical Meetings, Virtual, August 2020*.

“ Improved Exact Confidence Intervals for A Proportion Using Ranked-set Sampling”, *The 2019 Joint Statistical Meetings, Denver, July 2019*.

“Hybrid Flipped Classroom: Is It for You?”, sponsored by Villanova Institute for Teaching and Learning minigrant, *2019 Teaching and Learning Strategies Program at Villanova, May 2019*.

“An Analysis of Factors that Influence Investors’ Choice for 529 College Saving Plans ”, Ryan, L. and Zhang Y., won the first place in *Villanova 5th Annual Center for Business Analytics Data Mining Competition, February 2019*.

“Deep Learning in Bone Age Assessment - Explore the Future of Radiology”, VangumalliG, D., and Zhang Y., won the first place in *Graduate Students for Astronomy, Physics, CS, Math & Stats category, Villanova 2018 Sigma Xi CRF Student Research Poster Symposium, April 2018*.

“Testing Perfect Rankings in Ranked-set Sampling with Binary Data”, Invited, *International Conference on Mathematics and Statistics (ICOMAS 2018), Memphis, May 2018*.

“An Introduction to Ranked-Set Sampling”, Invited, *The Villanova Center for Analytics of Dynamic Systems (VCADS) meeting, Villanova, February 2018*.