

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

WORK IN  
PROGRESS

Zhang, Y. and McCann, M. "Obtaining Sequential Testing Procedures from Single-step Methods."

Zhang, Y. and McCann, M. "Approximate Simultaneous Inference on Population Means with Ranked-set Samples."

Zhang, Y. and Nataraj, C. "Identification of Engineering Freshmen Characteristics that Predict Success at the End of the First Year."

PRESENTATIONS "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*.

"What Do Interpolated Nonparametric Confidence Intervals for Population Quantiles Guarantee?", Invited, *Department of Statistics, Oklahoma State University, November 2017*.

"Assessment of Health Effects of Particulate Pollution among Traffic Police in Kathmandu, Nepal using Biomarkers", Shakya, K., Peltier, R., Zhang, Y., and Pandey, B.D., *The 2017 Annual International Society of Exposure Science (ISES) Meeting, Research Triangle Park, October 2017*.

"What Do Interpolated Nonparametric Confidence Intervals for Population Quantiles Guarantee?", *The 2017 Joint Statistical Meetings, Baltimore, August 2017*.

"An Algorithm and A Strategy for Nonparametric Inference under Imperfect Rankings in Ranked-Set Sampling." Invited, *School of Mathematical Sciences, Dalian University of Technology, China, May 2017*.

"An Algorithm with applications in Ranked Set Sampling.", *The 2016 Joint Statistical Meetings, Chicago, August 2016*.

"Multiple comparisons and sequential testing procedures." Invited, *Villanova Center for Analytics of Dynamic Systems, Villanova University, May 2016*.

"The Restricted Scheffe Method Using the Minimal Cone Approach for Multiple Comparisons", *The 2015 Joint Statistical Meetings, Seattle, August 2015*.

"Restricted Scheffe Method Using Minimal Cone Approach for Multiple Comparisons.", *The 2014 Villanova University Department of Mathematics and Statistics colloquium, December 2014*.