ASA GSS/SRMS/SSS Student Paper Competition 2022 Winners

On behalf of the 2022 ASA GSS/SRMS/SSS Student Paper Competition committee, I am pleased to announce the winners of this year’s competition:

Olivier Binette, Duke University

Peter Gao, University of Washington

Dae-Gyu Jang, Iowa State University

Tamy Harumy Moraes Tsujimoto, University of North Carolina at Chapel Hill

Yibo Wang, University of Michigan

Congratulations to the winners!

Every year, the ASA Consortium of Sections GSS/SRMS/SSS is offering five awards to students and recent graduates for their papers on new statistical methodology or creative applications of statistical analyses to problems, issues, or policy questions pertinent to the subject areas of one of the sponsoring sections. A subsidy of up to $1,000 is provided to each winner to cover expenses to the ASA’s Joint Statistical Meetings, where the winners will present their papers at a topic-contributed session. This year, the winning applications were among a large number of strong applications and it was a close decision.

Olivier Binette is a PhD candidate in the Department of Statistical Science at Duke University. His winning paper is titled “On the reliability of Multiple Systems Estimation for the Quantification of Modern Slavery.” In view of modern slavery studies, he provides a thorough review and evaluation of multiple systems estimation methodology and contributes to the open-source software repository of the field.

Peter Gao is a graduate student in the Department of Statistics at the University of Washington. His paper is titled “Smoothed Model-Assisted Small Area Estimation.” He develops a small area estimation estimator that leverages auxiliary information and spatial smoothing while remaining optimal in a design-based sense, sparking a dialogue between survey statisticians and machine learning experts.

Dae-Gyu Jang is a PhD candidate in the Department of Statistics at Iowa State University. His paper is titled “A-Optimal Split Questionnaire Designs for Multivariate Continuous Variables.” He introduces methodology to find an optimal split questionnaire design, applying probabilistic design and optimality criterion.

Tamy Harumy Moraes Tsujimoto is a PhD student in the Department of Biostatistics at the University of North Carolina at Chapel Hill. Her paper is titled “Receiver Operating Characteristic (ROC) curve for complex survey data.” She proposes a nonparametric estimator for the ROC curve that accounts for complex survey sampling.

Yibo Wang is a PhD student in the Department of Biostatistics at University of Michigan. Her paper is titled “Sample Size Estimation in Respondent-Driven Sampling.” She studies the sample size
distribution in the respondent-driven sampling (RDS) setting, proposes an approximation algorithm for sample size estimation, and provides theoretical instructions on drafting sampling designs for the sake of reaching the desired sample size.

All of GSS, SRMS, and SSS congratulate Olivier, Peter, Dae-Gyu, Tamy, and Yibo on their hard work and dedication to the profession. We look forward to meeting them at JSM 2022 and invite you all to attend the JSM 2022 topic-contributed session “2022 GSS/SRMS/SSS Student Paper Competition Award Winners,” at which they will deliver their presentations of the winning papers.

Stay tuned for the 2023 ASA GSS/SRMS/SSS student paper competition announcement to be published on the SRMS webpage in the fall of 2022!

*Congratulations to the 2022 winners, best wishes in the academic endeavors to the 2022 applicants, and good luck to the future applicants!*

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*Andreea L. Erciulescu, PhD*

*Senior Statistician, Westat*

*Representative-at-large and Student Travel Award Committee Chair, ASA Washington Statistical Society*

*Program Chair-elect, ASA Survey Research Methods Section*