



THE UNIVERSITY OF GEORGIA
DEPARTMENT OF STATISTICS
AND
THE STATISTICS CLUB
jointly present

The Bradley Lecture

Friday, April 14, 2023

Founders Memorial Garden

Dr. Dylan Small

Department of Statistics and Data Science, University of Pennsylvania

Protocols for Observational Studies: Methods and a Gun Violence Prevention Study

One strength of a well conducted randomized clinical trial, besides its use of randomization, is that it follows a protocol that describes the design of the trial and a plan for its analysis. For observational studies, protocols are equally valuable but less commonly used. We will discuss methods for observational study protocols in the context of an observational study about the effect of police seizing a gun when arresting a domestic violence suspect on future domestic violence.

• About the Speaker •

Dr. Dylan Small is the Universal Furniture Professor of Statistics and Data Science and Department Chair at the Wharton School at the University of Pennsylvania. Dr. Small obtained his PhD in Statistics from Stanford University in 2002 and his BA at Harvard University in 1997. He is a statistician whose research focuses on causal inference and applications to health studies. In particular, Dr. Small's research interests include causal inference, design and analysis of experiments and observational studies for comparing treatments, longitudinal data, measurement error and applications of statistics to health and public policy. He has served the statistical community by acting as an Associate Editor for numerous journals, including the Journal of Educational and Behavioral Statistics, The American Statistician, Journal of Causal Inference, Journal of the Royal Statistical Society Series B, and the Journal of Quantitative Analysis in Sports. He is the founding Editor of the journal Observational Studies and is the current co-editor of the Journal of the American Statistical Association - Theory and Methods section. In 2013, Dr. Small received the honor of being named an American Statistical Association Fellow. He delivered the Steve Feinberg Memorial Lecture Series in Advanced Analytics Lecture, Carnegie Mellon University in 2018 and the prestigious IMS Medallion Lecture in 2022. Dr. Small has published more than 216 peer reviewed papers in prestigious journals and advised 28 Ph.D. students on their dissertations, and has mentored several undergraduates and postdoctoral fellows on research.



· *History of the Bradley Lecture* ·

The University of Georgia Department of Statistics and the Statistics Club are proud to host the 29th Annual Bradley Lecture. The event honors former faculty member Dr. Ralph A. Bradley, who was born on November 28, 1923 in Smith Falls, Ontario, Canada, and who grew up in the village of Wellington. After graduating from Queen's University in 1944 with an honors degree in mathematics and physics, he served in the Canadian Army from 1944 to 1945, and afterwards earned his Masters of Arts degree in 1946. He received his PhD in 1949 at the University of North Carolina Chapel Hill, and went on to a very distinguished career. He was founder of the Department of Statistics at Florida State University and served as its chair from 1959 to 1978. He joined UGA in 1982.

Dr. Ralph Bradley made many contributions to the field of statistics as a researcher in design of experiments, nonparametric statistics, sequential analysis and multivariate analysis. He also had an exemplary record of service to the profession of statistics as a member of ASA, IMS, ISI, as well as by serving as a president of ASA in 1981.

The Bradley Lecture provides an opportunity for UGA graduate students to interact with the speaker, who is normally an eminent statistician of their choice. After the seminar in the afternoon, the speaker gives an after-dinner presentation and often stays for the next day's spring picnic to mingle with faculty and students.

We hope you'll join us for what should be an informative and exciting event!

· *Schedule of Events* ·

Friday, April 14, 2023

3:30pm – 4:00pm

Arrival

Founders Memorial Garden House

4:00pm – 5:00pm

Lecture

Founders Memorial Garden House

5:00pm – 5:30pm

Break

Founders Memorial Garden Terrace

5:30pm – 7:30pm

Dinner and After-Dinner Talk

Founders Memorial Garden Terrace

Saturday, April 15, 2023

10:00am – 2:00pm

Bradley Spring Picnic

Memorial Park Picnic Shelter #1

Registration Fee: \$25 for non-members, \$10 for members

· *After-Dinner Talk* ·

Dr. Dylan Small

Founders Memorial Garden Terrace

Statistics and Malaria Research

· *Bradley Spring Picnic* ·



Memorial Park Picnic Shelter #1

Saturday, April 15, 2023 10:00am – 2:00pm

293 Gran Ellen Dr, Athens, GA

Enjoy a relaxing afternoon full of food, fun and fellowship! Mingle with faculty members and graduate students while watching the students show off their outdoor grilling skills.