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# North Texas Chapter American Statistical Association

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## ASA North Texas Chapter traveling short course

### Fundamentals of Causal Inference: With R

One of the primary motivations for clinical trials and observational studies of humans is to infer cause and effect. Disentangling causation from confounding is of utmost importance. Fundamentals of Causal Inference: With R explains and relates different methods of confounding adjustment in terms of potential outcomes and graphical models, including standardization, doubly robust estimation, difference-in-differences estimation, and instrumental variables estimation. Several real data examples, simulation studies, and analyses using R motivate the methods throughout. The course assumes familiarity with basic statistics and probability, regression, and R. The course will be taught with a blend of lecture and worked examples. Visit <https://www.amstat-nt.org> for more details.

### Seminar Details

**Date:** Friday, October 20  
**Time:** 9:00 am to 4:30 pm  
**Location:** SLC Room 2.302 at UT Dallas  
**Registration:** The registration fees are as follows: \$40 for students, \$60 for ASA members, and \$70 for Non-ASA member. A late registration fee of \$5 will be applied after October 6, 2023.



### Instructor Details

**Name:** Babette Brumback

**Affiliation:** University of Florida

**Biography:** Dr. Brumback is a Professor and Associate Chair in the Department of Biostatistics at the University of Florida, specializing in longitudinal data analysis, causal modeling, bias adjustment, and complex sampling designs. She has collaborated on diverse public health and medical research projects and played leadership roles in statistical associations. Notably, she served as Chair Elect, Chair, and Past Chair of the American Statistical Association Section on Statistics in Epidemiology, was President of the Florida Chapter of the American Statistical Association, and contributed to NIH study sections and NSF advisory panels. Dr. Brumback received her PhD in Statistics from UC Berkeley and conducted postdoctoral training in Biostatistics and Epidemiology at Harvard. She is a member of Delta Omega and a Fellow of the American Statistical Association, making her a prominent figure in the field of biostatistics and epidemiology.