



Second Annual Twin Cities ASA FALL RESEARCH CONFERENCE

MEDTRONIC, MOUNDS VIEW, MN

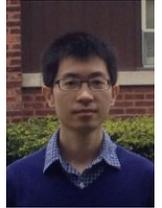
Monday, October 3, 2016



Medtronic

Full Schedule of Events

- 8:30 AM Registration and coffee
- 9:00 AM **Short course by Dr. Dong Xi**, Novartis: *Graphical Approaches to Multiple Testing*
Abstract: Methods for addressing multiplicity are becoming increasingly more important in clinical trials and other applications. In the recent past, several multiple test procedures have been developed that allow one to map the relative importance of different study objectives as well as their relation onto an appropriately tailored multiple test procedure, such as fixed sequence, fallback, and gatekeeping procedures. In this short course, we focus on graphical approaches that can be applied to common multiple test problems, such as comparing several treatments with a control, assessing the benefit of a new drug for more than one endpoint, and combined non-inferiority and superiority testing. Using graphical approaches, one can easily construct and explore different test strategies and thus tailor the test procedure to the given study objectives. The resulting multiple test procedures are represented by directed, weighted graphs, where each node corresponds to an elementary hypothesis, together with a simple algorithm to generate such graphs while sequentially testing the individual hypotheses. We also present a case study to illustrate how the approach can be used in clinical practice. In addition, we briefly consider power and sample size calculation to optimize a multiple test procedure for given study objectives. The presented methods will be illustrated using the graphical user interface from the gMCP package in R, which is freely available on CRAN.
- 12:00 PM Lunch (provided on-site)
- 1:00 PM **Alicia Johnson**, Macalester College: *Being Bayesian: Perspectives from a Researcher, Educator, and Human*
- 1:35 PM **Julian Wolfson**, University of Minnesota Division of Biostatistics: *Statistical Analysis of Wearable Sensor Data*
- 2:10 PM **Aaron Rendahl**, University of Minnesota School of Statistics: *Stories and Lessons from a University Consulting Center*
- 2:45 PM Break
- 3:00 PM Poster advertisement speed session
- 3:30 PM **Poster session with snacks**
- 4:30 PM Poster award announcements and closing



Dong Xi



Alicia Johnson



Julian Wolfson



Aaron Rendahl

CALL FOR POSTERS

The meeting will have a poster session where interested participants can present their Statistics-related projects. We especially encourage both graduate and undergraduate students to participate, and the chapter will award \$100 cash prizes to the best graduate and undergraduate posters (subject to a minimum five participants in each category). To participate, please submit your poster title and short abstract to twincitieschapterASA@gmail.com.

REGISTRATION INFORMATION: <http://TCASA2016.eventbrite.com>

\$75 Non-member / \$65 Member / \$25 Student

Non-member registration includes annual chapter membership; complimentary registration for Medtronic employees

LOCATION

The meeting will be held on the Medtronic Mounds View campus at 8200 Coral Sea Street NE. Attendees should use the guest parking lot east of the main entrance; a map and directions are available on the registration website.

Meeting sponsored by the American Statistical Association and hosted by Medtronic PLC
 Visit www.AmStatMN.org or contact TwinCitiesChapterASA@gmail.com for more information