Welcome to STA303/STA1002



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STA303/STA1002: Methods of Data Analysis II, Summer 2016

Michael Guerzhoy

About the Class

- Review of p-values, hypothesis testing, confidence intervals, and all that
 - Using all of those concepts correctly
- Focus: analyzing data that doesn't conform to the assumptions of the Linear Model
 - Disentangling the effects of various covariates from each other on the variable of interest
 - Determining whether the data displays any pattern at all
 - Predicting future data
- Use of modern statistical tools for performing analysis
 - Computer simulation in R for analyzing various statistical techniques (you will use simulation even more if you work in statistics in the future)
 - Data Visualization in R
 - R Markdown for generating reproducible analysis

About the Class

- Common requests
 - Working with financial data coming up in Project 2
 - Data Science-flavoured assignment also coming up in Project 2
 - Public Health, Psychology data, sports still working on finding something suitable

About the class

- Tentative schedule (to be finalized after I see how the first two lectures go, by Thursday)
 - Project 1: 10%, due Jul. 11
 - Project 2: 15%, due Aug. 1
 - Midterm: 25% on Monday Jul. 18
 - Exam: 50%, during the examination period

About me

- Michael Guerzhoy is pronounced "Mike-ul ger-JOY"
- Office hours: R6-7, F3-4, or by appointment in BA5244

About me

- Teaching full-time: mostly in Computer Science, but looking forward to teaching Stats!
- Data Science Consultant on the side
 - Clients include: CBC, Homestars.com, and people you've never heard of
- MSc in Stats (applied stats and statistical machine learning) and MSc in Comp Sci (machine learning/computer vision)
- Research interests: log-linear (and non-log-linear) models, hierarchical Bayesian models
 - More on that if time permits

About you: Future Plans

Future Plans (incl. multiple responses)

