STA 210: Regression Analysis

Learn approaches for analyzing multivariate data sets, emphasizing analysis of variance, linear regression, and logistic regression. Learn techniques for checking the appropriateness of proposed models, such as residual analyses and case influence diagnostics, and techniques for selecting models. Gain experience dealing with the challenges that arise in practice through assignments that utilize real-world data. This class emphasizes data analysis over mathematical theory.

Course info

Lectures

Gross Hall 103 Mon and Wed 10:05a - 11:20a

Labs

Lab 01 Link Classroom #5 Thu 3:05p - 4:20p

Lab 02 Link Classroom #5 Thu 4:40p - 5:55p

Lab 03 Link Classroom #1 Thu 4:40p - 5:55p

Teaching team and office hours

Instructor	Prof. Maria Tackett (http://stat.duke.edu/~mt324/)	(mailto:maria.tackett@duke.edu) (https://github.com/matackett)	Wed 3p - 5p	Old Chem 118B
TAs	Youngsoo Baek (https://stat.duke.edu/people/youngsoo-baek-0)	(mailto:youngsoo.baek@duke.edu) (https://github.com/ybaek)	Mon 1p - 3p	Old Chem 203B
	Cody Coombs (http://linkedin.com/in/cody-coombs-3b8034158)	(mailto:cody.coombs@duke.edu) (https://github.com/coombscody)	Tue 1p - 3p	Old Chem 203B
	Sophie Dalldorf (https://www.linkedin.com/in/sophie-dalldorf-598a16192/)	(mailto:sophia.dalldorf@duke.edu) (https://github.com/sophiedalldorf)	Fri 1p - 3p	Old Chem 203B
	Jonathan Klus (https://stat.duke.edu/people/jonathan-klus)	(mailto:jonathan.klus@duke.edu) (https://github.com/jonklus)	Mon 3p - 5p	Old Chem 203B
	Matty Pahren (https://www.linkedin.com/in/mattypahren)	(mailto:martha.pahren@duke.edu) (https://github.com/mpahren)	Tue 3p - 5p	Old Chem 203B
	Ethan Shen (https://www.linkedin.com/in/ethan-shen-931010134/)	(mailto:ethan.shen@duke.edu) (https://github.com/ethann-shen)	Wed 5p - 7p	Old Chem 203B

Textbooks

Handbook of Regression Analsyis (http://sakai.duke.edu)	James, Witten, Hastie, Tibshirani	Springer, 1st edition, 2013
R for Data Science (http://r4ds.had.co.nz/)	Chatterjee, Simonoff	Wiley, 1st edition, 2013