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 3:05p - 4:20p

Labs

Lab 01   🏛 Soc Psych 127   📅 Thu 3:05p - 4:20p

Lab 02   🏛 Soc Sci 119   📅 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)	Tue 3p - 4:30p	Old Chem 118B
TAs	Cody Coombs	✉ (mailto:cody.coombs@duke.edu) ⌨ (https://github.com/coombscody)	Tue 1p - 3p	Old Chem 203B
	Matty Pahren (https://www.linkedin.com/in/mattypahren)	✉ (mailto:martha.pahren@duke.edu) ⌨ (https://github.com/mpahren)	Tue 10a - 12p	Old Chem 203B
	Ethan Shen (https://www.linkedin.com/in/ethan-shen-931010134/)	✉ (mailto:ethan.shen@duke.edu) ⌨ (https://github.com/ethann-shen)	Thu 6p - 8p	Old Chem 203B
	Steven Winter (https://www.linkedin.com/in/steven-winter-3810a0109)	✉ (mailto:steven.winter@duke.edu) ⌨ (https://github.com/szwinter)	Wed 12p - 2p	Old Chem 203B
	Tong Wu	✉ (mailto:shitong.wu@duke.edu) ⌨ (https://github.com/TongWu352)	Fri 11:30a - 1:30p	Old Chem 203B
	Evan Wyse (https://www.linkedin.com/in/evan-wyse-85305426/)	✉ (mailto:evan.wyse@duke.edu) ⌨ (https://github.com/wyseguy7)	Mon 12:30p - 2:30p	Old Chem 203B

Textbooks

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

Materials

You should bring a fully-charged laptop or comparable device to every lecture and lab session.

DUKE STATSCI (HTTP://STAT.DUKE.EDU/)   RSTUDIO (HTTPS://RSTUDIO.CLOUD/)

GITHUB (HTTPS://GITHUB.COM/STA210-FA19)   (./)