

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.

Portions of the course schedule and syllabus have been updated due to the transition to remote learning. Please see the Remote Learning Updates (<https://www2.stat.duke.edu/courses/Spring20/sta210.001/covid->

19-updates.html) and Schedule
(<https://www2.stat.duke.edu/courses/Spring20/sta210.001/schedule.html>)
for the most up-to-date information about the course.

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)	Tue 8:30a - 10a, Thu 10:30a - 12p	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 3p - 5p	Old Chem 203B

Textbooks

Handbook of Regression Analysis (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

 DUKE STATSCI ([HTTP://STAT.DUKE.EDU/](http://stat.duke.edu/))

 RSTUDIO ([HTTPS://VM-MANAGE.OIT.DUKE.EDU/CONTAINERS](https://vm-manage.oit.duke.edu/containers))

 GITHUB ([HTTPS://GITHUB.COM/STA210-SP20](https://github.com/STA210-SP20)) (./)

