# Lecture 0

# **Course Information**

DSA 8070 Multivariate Analysis

Whitney Huang Clemson University



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# About the Instructor



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# **About the Instructor**

- Associate Professor of Applied Statistics and Data
   Science
- Born in Laramie, WY, and grew up in Taiwan





• Obtained a B.S. in Mechanical Engineering and switched to Statistics in graduate school





 Earned a Ph.D. in Statistics in 2017 from Purdue University.







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# How to reach me?

• Email: wkhuang@clemson.edu

• Office: O-221 Martin Hall

• Office Hours: 8:00-8:45 PM ET on Tuesdays and Thursdays via Zoom

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About the Instructor
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# Notes \_\_\_\_\_

# Class Policies



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# Logistics

• There will be three projects. The due dates are:

Project I: Sep. 25, Thursday
Project I: Nov. 6, Thursday
Project II: Dec. 11, Thursday

- There will be weekly R Labs:
  - To be uploaded to Canvas by 11:59 pm ET on the due dates
  - Worst grade will be dropped
- No lectures during Thanksgiving week (Nov. 24-28)

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## **Course Materials at CANVAS**

- Course syllabus / Announcements
- Lecture slides/notes/videos
- R Labs/Projects
- Data sets for lectures and labs



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## **Reference Books**

- Applied Multivariate Statistics with R, Daniel Zelterman, 2015 [Link]
- Modern Multivariate Statistical Techniques: Regression, Classification, and Manifold Learning, Alan Izenman, 2008, [Link]
- Methods of Multivariate Analysis,  $\mathbf{3}_{rd}$  Edition, Alvin Rencher and William Christensen, 2012 [Link]
- Applied Multivariate Statistical Methods, 6th Edition, Richard Johnson and Dean Wichern, 2008 [Link]



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Evaluation

Grades will be weighted as follows:

Industrial Spotlight Attendance	5%
R Labs	20%
Project I	25%
Project II	25%
Project III	25%

Final course grades will be assigned using the following grading scheme:

>= 90.00	Α
$88.00 \sim 89.99$	A-
$85.00 \sim 87.99$	B+
$80.00 \sim 84.99$	В
$78.00 \sim 79.99$	B-
$75.00 \sim 77.99$	C+
$70.00 \sim 74.99$	С
$68.00 \sim 69.99$	C-
<= 67.99	F

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# Computing

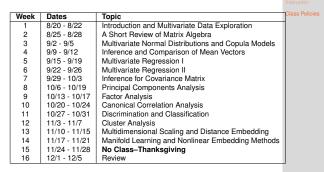
We will use software to perform statistical analyses. Specifically, we will be using R/Rstudio  ${\bf R}$   ${\bf R}$ 

- a free/open-source programming language for statistical analysis
- available at https://www.r-project.org/(R); https://rstudio.com/(Rstudio)

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# Topics



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