

*The Economics Department at Carolina introduces*

# **The DATA (Data-Acumen-Theory-Application) Science Credential in Economics**

**in-demand data skills, guided by theory, applied to economics**

*(combining the “what” with the “why” & “how”)*

## *Practical and Marketable Skills*

Introduction to programming languages (e.g., R/Python) commonly used in applications of data science, and practical data skills: collecting, scraping, cleaning, merging, processing, and visualizing data, descriptive analysis, optimization, and supervised/unsupervised statistical learning.

## *Synergy, Application, and Experience*

Gain experience in combining these data skills with foundational knowledge of economics to frame and solve economic questions using real data from finance, industry, government, health, environment, among others.

## **Credential Requirements:**

- Courses\*:
  - ECON 390: Economic Applications of Data Science
  - ECON 470: Econometrics
  - ECON 573: Big Data and Machine Learning  
or ECON 575: Applied Time Series Analyses and Forecasting
- Seminars: Attendance at seminars of invited speakers from industry (~3 per semester) to learn about practice of data science and to provide opportunities for career networking.

If you are interested in this credential, please fill out this [FORM](#).

### **\*Note:**

One section of ECON 390 is being offered this fall: TR 11:00 am – 12:15 pm

Two sections of ECON 470 are being offered this fall: TR 9:30 am – 10:45 am & 12:30 pm – 1:45 pm

One section of ECON 573 is being offered this fall: TR 8:00 am – 9:15 am. *It is listed as ECON 590-003*

Sections of ECON 470, 573, and 575 will be offered this spring.

The credential requirements can be completed in two or three semesters.