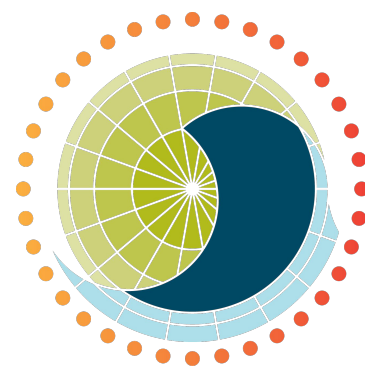# ENVIRONMENTAL DATA SCIENCE BOOTCAMPS 2022

These free bootcamps are intended to give graduate students a jumpstart into the practical skills needed for research. The student-led workshops will be occurring in a hybrid format. Lessons are applicable to a wide range of fields, but examples will be drawn from environmental sciences.

To request a spot in one or more courses, please complete the following form by August 1st: **tinyurl.com/EDSbootcamps2022**

INTRO TO SCIENTIFIC PROGRAMMING
[Python workshop]

For those new to programming, a Python course in the basics to get you up to speed: variables, arrays, list, for loops, if statements, functions, and how to work with NumPy, Pandas, and Matplotlib for basic data sciences purposes.

Aug 29 - Sep 14, 9:30 am - 12:30 pm CT

COMPUTING FOR RESEARCH
[Python workshop]

For those who already know the programming basics, this Python course will dive into more advanced computational methods, including data exploration and visualization, using the computing cluster, version control software (Git), and working with geodata formats.

Aug 29 - Sep 7, 9:30 am - 12:30 pm CT

DEMYSTIFYING MACHINE LEARNING
[Python mini workshop]

Students who sign up for another bootcamp will have the option to join this add-on session.

Sep 15 - Sep 16, 9:30 am - 12:30 pm CT

STATISTICS FOR RESEARCH
[R workshop]

This R course provides a broad overview of useful statistical techniques used in scientific research. Over the course of the bootcamp, we will develop a toolkit of methods students will likely need to complete their own research. Topics include modern approaches to regression, time series modeling, and Bayesian statistics. The focus is on practical application and therefore will include extensive coding exercises.

Sep 8 - Sep 14, 9:30 am - 12:30 pm CT

LIFE DURING GRAD SCHOOL
[Panelist series]

Starting grad school is always a big leap. This series aims to help incoming PhD students make the transition. The first three days will be panels where senior grad students and faculty will discuss topics like navigating the student-advisor relationship and work-life balance. The last day will be an overview of campus resources and useful tools to help make grad school easier. Snacks will be provided! 🍿

Sep 12 - Sep 15, 3:00 pm - 4:15 pm CT