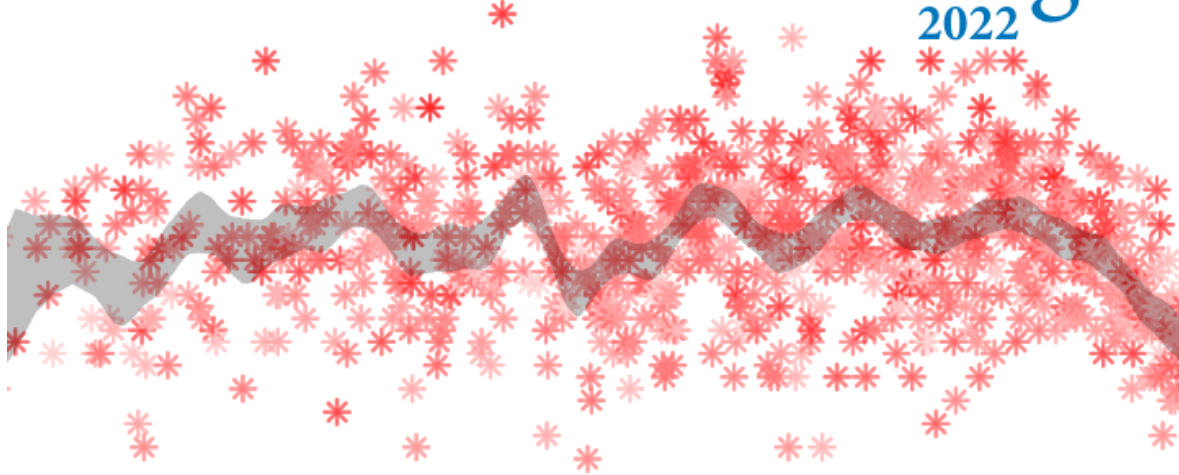


# Statistical Rethinking

2022



ECL 298 298 001--Winter Quarter

CRN 21078

Instructors: Richard McElreath (Max Planck Institute) and John Durand (UC Davis)

Lectures: Uploaded and pre-recorded, two per week

Discussion: Online, Fridays 3pm-4pm Central European Time (6am-7am PST)

In person, TBD

This course teaches data analysis, but it focuses on scientific models first. The unfortunate truth about data is that nothing much can be done with it, until we say what caused it. We will prioritize conceptual, causal models and precise questions about those models. We will use Bayesian data analysis to connect scientific models to evidence. And we will learn powerful computational tools for coping with high-dimension, imperfect data of the kind that biologists and social scientists face.

Format: Online, flipped instruction The lectures are pre-recorded. We'll meet online once a week for an hour to work through the solutions to the assigned problems, and in-person once a week for discussion and work sessions.

We'll use the 2nd edition of <[Statistical Rethinking](#)>. A PDF of the book will be provided to enrolled students.