*Crime by the Numbers: A Criminologist's Guide to R* introduces the programming language R and covers the necessary skills to conduct quantitative research in criminology. By the end of this book, a person without any prior programming experience can take raw crime data, be able to clean it, visualize the data, present it using R Markdown, and change it to a format ready for analysis. *Crime by the Numbers* focuses on skills specifically for criminology such as spatial joins, mapping, and scraping data from PDFs, however any social scientist looking for an introduction to R for data analysis will find this useful.

Key Features:

* Introduction to RStudio including how to change user preference settings
* Basic data exploration and cleaning – subsetting, loading data, regular expressions, aggregating data
* Graphing with ggplot2
* How to make maps (hotspot maps, choropleth maps, interactive maps)
* Webscraping and PDF scraping
* Project management – how to prepare for a project, how to decide which projects to do, best ways to collaborate with people, how to store your code (using git), and how to test your code.

About the Author:

**Jacob Kaplan** is the Chief Data Scientist of the Research on Policing Reform and Accountability (RoPRA), a multi-disciplinary, multi-institutional team of social scientists studying the feasibility and efficacy of policing reform, with a focus on statistically rigorous research and practical applications. His current appointment is at the Princeton School of Public and International Affairs. He holds a PhD and a master’s degree in criminology from the University of Pennsylvania and a bachelor’s degree in criminal justice from California State University, Sacramento. He is the author of several R packages that make it easier to work with data, including fastDummies and asciiSetupReader. He is also the author of books on the two primary criminal justice data sets: the FBI’s Uniform Crime Reporting (UCR) Program Data, and the FBI’s National Incident Based Reporting System (NIBRS) data.