

1 Data Science for Psychologists (DS4P): A Modular,
2 Open-Source Learning Module for Transparent and
3 Reproducible Data Analysis in Psychology

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6 Summary

7 **Data Science for Psychologists (DS4P)** is an open, GitHub-hosted computational learning
8 module developed to support data science instruction within psychology. Initially launched as a
9 graduate course during the COVID-19 pandemic, DS4P will expand to include undergraduate
10 instruction beginning in Spring 2026 at Wake Forest University.

11 This multimedia module serves as a flipped textbook, combining embedded video lectures,
12 annotated code examples, readings, slide decks, and hands-on labs. Its instructional approach
13 emphasizes reproducibility and transparency in psychological research. No prior programming
14 or advanced mathematical background is assumed.

15 DS4P makes extensive use of the R ecosystem