

# RYAN M. MCMANUS, PH.D.

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## SUMMARY

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I am a quantitative psychologist and researcher with 8+ years of experience in project management and data analytics. I have led and managed the design and execution of more than 20 research projects on human behavior, judgment, and decision-making, as well as 2 projects on misuses of inferential statistical procedures in academic research. Using quantitative approaches, I have collected and analyzed data from 20,000+ participants resulting in 6 publications, 2 pre-prints, and 5 conference talks. I am passionate about applying my research methods and quantitative expertise to address important social issues and solve significant business problems.

## SKILLS

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<b>Research Methods &amp; Experimental Design</b>	Designed and led 20+ research projects using a variety of research methods (e.g., surveys, behavioral experiments, archival data)
<b>Advanced Statistical Approaches</b>	Strong foundation in graduate-level inferential statistics: t-tests, ANOVAs, multiple regression, multi-level modeling, structural equation modeling, missing data analysis, and non-parametric alternatives
<b>Writing and Communication</b>	Excellent verbal and writing skills gained through presenting talks and posters at academic conferences, publishing <a href="#">papers</a> , and writing <a href="#">tutorials</a> on methods/statistics.
<b>Programming and Software</b>	Highly skilled in cleaning, visualizing, and analyzing data in R, Python, MPlus, and SPSS (and am currently learning SQL). Experienced in creating neatly organized and shareable .html summary files using <a href="#">RNotebooks</a> and <a href="#">Python JupyterNotebooks</a>

## EXPERIENCE

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### **Quantitative Psychologist** (Boston College, 2018 – 2023; California State University, Northridge, 2016 – 2018)

- ❖ Led 20+ collaborative research projects on moral psychology and methods/statistics
- ❖ Managed multi-person research teams of junior graduate students, research assistants, and thesis students
- ❖ Designed dozens of correlational and experimental surveys using Qualtrics, MTurk, and Prolific
- ❖ Cleaned, visualized, and analyzed data using R, Python, and SPSS
- ❖ Distilled and communicated complex ideas for academic talks, [publications](#), and [lay audiences](#)

### **Data Analyst** (Institutional Research, California State University, Northridge, 2017 – 2018)

- ❖ Organized and transformed large student datasets using Excel and R
- ❖ Analyzed student data to assess impact of campus intervention programs (e.g., retention, GPA, etc.)
- ❖ Wrote reports for superiors to inform colleges of programs' effectiveness

### **Statistics / Research Methods Tutor** (California State University, Northridge, 2016 – 2018)

- ❖ Tutored students in inferential statistics theory and research methods
- ❖ Assisted students in extracting data from survey software and transforming it into analysis format
- ❖ Aided students in interpreting analysis output and writing reports for courses, theses, and dissertations

## EDUCATION

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2018 – 2023	Ph.D., Experimental Psychology & Neuroscience (Boston College) Minor: Quantitative and Computational Methods
2016 – 2018	M.A., Experimental Psychology (California State University, Northridge)
2009 – 2012	B.A., Psychology (California University of Pennsylvania)