DANIELLE NAVARRO

I am a data scientist, an academic, an R developer, a cognitive scientist, and a generative artist. My scientific work focuses on human learning and reasoning, and statistical methods in the behavioural sciences. I build tools and teaching resources to assist R data analysts, communicated across multiple platforms.

EDUCATION

2003

University of Adelaide
 Ph.D. in Psychology

III EMPLOYMENT

2016 | 2021

Associate Professor

University of New South Wales (Sydney, Australia)

- Project and team management
- Design, conduct, and analyse behavioural experiments
- Communicate results in reports, books, papers, and talks
- Develop teaching material and research software
- Teach technical classes to small and large groups
- Successfully write grant/tender proposals for funding
- Recruit, supervise, and lead a team of skilled professionals
- Organise conferences and events

2013 | 2015

Associate Professor

University of Adelaide (Adelaide, Australia)



2022

ggplot2: Elegant Graphics for Data Analysis (3rd ed)
Updated edition of the classic book on data visualisation with ggplot2
(coauthors: Hadley Wickham, Thomas Lin Pedersen)

ggplot2-book.org

2015

Learning Statistics with R

Award winning open access textbook teaching introductory statistics and R programming to novices

Plearningstatisticswithr.com

TALKS

2020

Toward a grammar of psychological experiments

Invited talk, RStudio conference (San Francisco, California)

■ talks.djnavarro.net/rstudioconf2020

2019

- Science, statistics and the problem of pretty good inference Invited talk, open science workshop (Aarhus, Denmark)
 - talks.djnavarro.net/scistat2019

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</> PROGRAMMING

R / tidyverse / Shiny
HTML / CSS / javascript
git / GitHub
SQLite
C++
Matlab / Octave
Python

C DATA ANALYSIS

Data visualisation (e.g., ggplot2) Linear models (inc. GLM, GLMM) Factor analysis, MDS, PCA Bayesian data analysis (e.g., Stan) CART, random forests Cognitive modelling

LITERATE CODING

LaTeX
R markdown
blogdown / bookdown
xaringan slides
hugo themes
flexdashboards

2018 • R for psychological science

Keynote talk, useR!2018 conference (Brisbane, Australia)

■ talks.djnavarro.net/user2018

♣ TRAINING AND TEACHING SKILLS

2021 • Data visualisation

University subject providing an introduction to data visualisation using the R statistical programming language

Ø data-vis-2021.djnavarro.net

2020 • Introduction to R

2021

2019

2021

2019

Online workshops, youtube videos, and slide decks covering a variety of topics in R, aimed at a broad audience. Designed to provide remote learning solutions during the pandemic slides.djnavarro.net

2020 • Certified tidyverse trainer

Official RStudio certification for tidyverse instructors

@ education.rstudio.com/trainers

2016 • Minds and machines

University course discussing the relationship between human cognition and machine learning, introducing students to both minds-machines-4103.djnavarro.net

COMMUNITY ROLES

2020 • **Science**

Board of Reviewing Editors

2018 • R-Ladies Sydney

Cofounder and organiser

rladiessydney.org

TECHNICAL PAPERS

If mathematical psychology did not exist we might need to invent it: A comment on theory building in psychology

Perspectives on Psychological Science

psyarxiv.com/ygbjp

 Between the devil and the deep blue sea: Tensions between scientific judgement and statistical model selection

Computational Brain and Behavior

psyarxiv.com/39q8y

>100 scientific papers, ~4700 citations, h-index: 35
 \$\mathcal{O}\$ scholar.djnavarro.net

R PACKAGES

Insert Bootstrap 4 cards into R markdown documents to create thumbnail grids and links

Write behavioural experiments in R that build to javascript using the jsPsych library

S Isr.djnavarro.net

Wrapper functions to assist with teaching introductory stats in R

flametree.djnavarro.net

Package for generative art in R

ART AND DESIGN

Generative art portfolio

Ø djnavarro.net/hugo-diziet

Hugo theme suitable for graphic design websites generated in R

Résumé generated in R with ♥ and pagedown

Last updated: October 12, 2021