Danielle **Navarro**

ASSOCIATE PROFESSOR OF COGNITIVE SCIENCE, UNSW SYDNEY

+61 421 488 402 | d.navarro@unsw.edu.au | djnavarro.net | djnavarro | djnavarro | djnavarro

Some biographical detail

My Ph.D. was awarded in 2003 by the University of Adelaide, where I was appointed Lecturer in 2006, promoted to Senior Lecturer in 2009 and Associate Professor in 2013. I held multiple Australian Research Council (ARC) Fellowships from 2007-2015 and from 2016 have been Associate Professor at UNSW Sydney.

Coding and workflow

My code is written mostly in R, with a light sprinkle of C++ when speed is necessary. For web programming I rely on javascript HTML and CSS, focusing on libraries such as jsPsych designed specifically for my use case, and use plumber and Shiny at times when I need web applications to rely on R code. I make extensive use of Hugo and associated literate programming tools in R (blogdown, hugodown, rmarkdown etc), and have experience writing Hugo themes. My workflow was previously based around Matlab/Octave and I remain familiar with those languages; additionally I have some familiarity with Python. I've written several small R packages (caladown, jaysire, flametree etc) and have experience with standard developer tools (usethis, testthat, pkgdown etc), and am similarly comfortable working with git/GitHub and associated R tools (gert, git2r, etc). For everyday data analysis I rely on tidyverse primarily. I have a little experience with tidymodels, but my typical workflow is currently based around calling JAGS and (to a lesser extent) Stan directly to implement Bayesian data analysis.

Communication

In academic roles communication is traditionally described in terms of "outward" expression of ideas to others. My specialist work is communicated by an absurdly large number of journal articles, and as such I am an accomplished technical writer (e.g., devil deep blue sea). I write books for a more general audience (e.g., LSR) and data scientists (e.g., ggplot2); my writing is highly regarded for its clarity and humour, if not its brevity. I am adept at giving public lectures (), running small workshops, teaching formal and informal classes, in data science, psychology etc. A different perspective on communication focuses on teamwork, interpersonal skills and listening to others even when they may disagree in heated terms. Previous leadership roles (on academic committees etc), training, and experience running a research group have served me well in this respect. My real world experience has been very useful in learning these skills: parenting experience and online interaction as a (somewhat) prominent transgender woman has taught me to understand, empathise with and respect others strong emotions, while establishing strong relationships and appropriate boundaries.

Education and training skills

- certified tidyverse instructor
- wrote award winning statistics textbook
- co-authoring ggplot2 3rd ed
- open course materials, youtube videos
- summer school
- teaching philosphy (see M&M course notes)

Project leadership and mentoring

- successful grant funding, part of CoE
- ran research group, lots of academic output
- supervised 8 postdocs, 12 phd students, 21 hons/masters. they all landed well

Leadership in scientific communities

- editorial roles
- RLadies Sydney
- conference organisation

- broad perspective on data science, statistics and scientific process (devil, aarhus talk)