DANIEL R. McCLOY

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OVERVIEW

I am a scientist trained in acoustic phonetics, speech perception, and auditory neuroscience. My research centers broadly on the perception and representation of speech sounds. I am a certified Software Carpentry instructor and committed to open and reproducible research.

Current position: Research Scientist at the University of Washington's Institute for Learning & Brain Sciences.

EDUCATION

ACADEMIC DEGREES

- PhD in Linguistics (University of Washington, 2013, PDF).
- MA in Linguistics (University of Washington, 2009, PDF).
- BS in Neurobiology, BA in Philosophy (University of Washington, 2002).

OTHER EDUCATION

- Postdoctoral training in psychophysics and auditory neuroscience (LABS^N, 2013-2018).
- Kavli Summer Institute in Cognitive Neuroscience (UC Santa Barbara, 2017).
- Machine Learning (Stanford University / Coursera, 2016).
- International Chinese Language Program (National Taiwan University, 2008).

TECHNICAL SKILLS

- **Programming**: Python, R, praat, Bash, GNU Make, Octave/MATLAB.
- **Scientific computing**: git/GitHub, cloud deployment, machine learning, data visualization.
- **Research machinery**: Pupillometry, eye tracking, EEG, MEG.
- **Document generation**: Pandoc, Markdown, RMarkdown, LaTeX, Beamer, HTML, CSS.

RESEARCH PRODUCTS

Structured bibliographic information is available in this BibTeX file. *Omitted here:* invited talks (3), conference proceedings (4), technical reports (1), conference presentations (13).

PEER-REVIEWED ARTICLES (12 TOTAL, 7 FIRST-AUTHORED)

- O'Brien, **McCloy** & Yeatman (2019). *J. Acoust. Soc. Am.*, *146*(1), 245–255. (DOI | preprint | repo)
- **McCloy** & Lee (2019). *Lang. Cogn. Neurosci.*, *34*(5), 662–676. (DOI | supplement | preprint | repo)
- **McCloy**, Larson & Lee (2018). *J. Acoust. Soc. Am.*, *144*(5), 2764–2771. (DOI | supplement | preprint | repo)
- O'Brien, **McCloy**, Kubota & Yeatman (2018). *Sci. Rep.*, *8*(1), 16842. (DOI | preprint | repo)
- **McCloy**, Lau, Larson, Pratt & Lee (2017). *J. Acoust. Soc. Am.*, *141*(4), 2440–2451. (DOI | supplement | preprint | repo)
- Hasegawa-Johnson, Jyothi, **McCloy**, Mirbagheri, di Liberto, Das, Ekin, Liu, Manohar, Tang, Lalor, Chen, Hager, Kekona, Sloan & Lee (2017). *IEEE/ACM Trans. Audio, Speech, Lang. Process.*, *25*(1), 46–59. (DOI | preprint | repo)
- **McCloy**, Larson, Lau & Lee (2016). *J. Acoust. Soc. Am.*, *139*(3), EL57–EL62. (DOI | preprint | repo)
- **McCloy** & Lee (2015). *J. Acoust. Soc. Am.*, *138*(1), 97–114. (DOI | preprint | repo)
- **McCloy**, Wright & Souza (2015). *Lang. Speech*, *58*(3), 371–386. (DOI | preprint)
- Barrack, **McCloy** & Wright (2014). *Indogermanische Forschungen*, *119*(1), 149–158. (DOI | preprint)

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- Souza, Gehani, Wright & **McCloy** (2013). *J. Amer. Acad. Audiol.*, *24*, 689–700. (DOI | preprint)
- Moran, **McCloy** & Wright (2012). *Language*, *88*(4), 877–893. (DOI | preprint | data and code (.zip))

SOFTWARE & CORPORA

- **Developer**: R package "phonR": visualize & analyze vowels. (tutorial | repo | CRAN)
- **Developer**: "Praat Semi-Auto": streamline manual acoustic measurements. (repo)
- **Co-developer**: Python library "expyfun": run psychophysics experiments. (repo)
- **Core contributor**: MNE-Python: analyze & visualize EEG & MEG data. (repo | docs)
- **Co-editor**: PHOIBLE: a database of over 1600 phonological inventories. (web | repo | docs)
- **Co-developer**: UW/NU Corpus: a 2-dialect, 20-talker corpus of 200 parallel sentences of English.

TEACHING EXPERIENCE

- **Instructor**: Software Carpentry Workshops "The Unix shell", "Version control with git", "Programming with Python", "R for reproducible scientific analysis" (UW eScience Institute: 2016, 2017, 2018, 2019; Benaroya Research Institute: 2020).
- **Instructor**: Introduction to Phonetics (2010, 2011).
- **Teaching Assistant**: Introduction to Linguistics, four sections (2008–2009).
- **Co-facilitator**: "New Majors" proseminar for incoming Philosophy students (2001, 2002).

ACADEMIC SERVICE

CONFERENCE & COMMITTEE SERVICE

- **Member**: LSA Committee on Scholarly Communication in Linguistics (2013–2018).
- **Session organizer**: "Quantitative Methodology in Physiological and Psychophysical Data Analysis," 171st Meeting of the Acoustical Society of America, Salt Lake City (2016).
- **Conference chair**: 24th Northwest Linguistics Conference, Seattle (2008).
- **Referee**: LSA Annual meeting (2014, 2016), Northwest Linguistics Conference (2008, 2012).

MENTORSHIP & OUTREACH

- **Mentor**: 2 graduate students, 1 undergraduate, and 3 high school students (2011-2019).
- **Volunteer**: Pacific Science Center's Paws On Science Weekend (2016).

AWARDS AND FELLOWSHIPS

- Postdoctoral fellowship (NIH T32), UW Auditory Neuroscience Training Program (2016–2018).
- NIH LRP award (2014–2016).
- Postdoctoral fellowship (NIH T32), UW Department of Speech and Hearing Sciences (2013–2014).
- "Research Excellence Award," UW Department of Linguistics (2013).
- FLAS fellowship, Modern Standard Chinese, U.S. Department of Education (2007–2008).

PROFESSIONAL AND SCHOLARLY AFFILIATIONS

International Phonetic Association (2014–present), Acoustical Society of America (2011–present), Linguistic Society of America (2009–present), Association for Research in Otolaryngology (2014–2018), *Phi Beta Kappa* (2002–present).

LANGUAGES

English (native), Modern Standard Chinese (intermediate), Spanish (reading knowledge).