206.890.0194 • dan@mccloy.info • https://dan.mccloy.info

OVERVIEW

I am a scientist trained in acoustic phonetics, speech perception, and auditory neuroscience, and a developer of open-source scientific software. My interest broadly centers on the perception and representation of speech sounds. I am a certified Software Carpentry instructor and a skilled writer of tutorials and documentation. **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, remote/cloud computing, machine learning, data visualization.
- **Research hardware**: Pupillometry, eye tracking, EEG, MEG, microphones, audio processors.
- 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 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 | suppl. | preprint | repo)
- McCloy, Larson & Lee (2018). J. Acoust. Soc. Am., 144(5), 2764–2771. (DOI | suppl. | preprint | repo)
- o 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 | suppl. | 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). 7. 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)
- 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))

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SOFTWARE & CORPORA

- Core developer of MNE-Python: analyze & visualize EEG & MEG data. (repo)
- **Developer** of phonR: visualize & analyze vowels in R. (repo | CRAN)
- Developer of Praat Semi-Auto: streamline manual measurements in acoustic phonetics (repo)
- **Co-developer** of expyfun: run psychophysics experiments in Python. (repo)
- **Co-developer** of PHOIBLE: a database of over 3000 phonological inventories. (repo | docs)
- **Co-developer** of 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

- **Organizer**: MNE-Python New Developers Code Sprint (forthcoming, March 2021).
- Mentor: 2 graduate students, 1 undergraduate, and 3 high school students (2011-2019).
- Volunteer: Pacific Science Center's Paws On Science Weekend (2016).

GRANTS, FELLOWSHIPS, AND AWARDS

- "Improving Usability of Core Neuroscience Analysis Tools with MNE-Python", CZI Essential Open Source Software for Science (2020-2021).
- 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).