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

OVERVIEW

I am a developer of open-source scientific software, and a scientist trained in acoustic phonetics, speech perception, and auditory neuroscience. My interest broadly centers on the perception and representation of speech sounds. I am also a certified Software Carpentry instructor.

Current position: Research Scientist at the University of Washington's Institute for Learning & Brain Sciences, where I lead the development of MNE-Python neuroscience analysis software, and analyze infant and adult magnetoencephalography (MEG) data.

ACADEMIC DEGREES

- PhD in Linguistics (UW, 2013): "Prosody, intelligibility and familiarity in speech perception" (PDF).
- MA in Linguistics (UW, 2009): "The semantics of implicitly relational predicates" (PDF).
- BS in Neurobiology, BA in Philosophy (UW, 2002).

OTHER EDUCATION

- Community Engagement Fundamentals (CSCCE, 2023).
- 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).

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; U. Minnesota: 2022, 2023, 2024).
- Instructor: Introduction to Phonetics (UW: 2010, 2011).
- Teaching Assistant: Introduction to Linguistics, four sections (UW: 2008–2009).
- Co-instructor: "New Majors" proseminar for incoming Philosophy students (UW: 2001, 2002).

TECHNICAL SKILLS

- Programming: Python, R, JavaScript, praat, Bash, GNU Make, Octave/MATLAB.
- Scientific computing: git/GitHub, cloud deployment, machine learning, data visualization.
- Research hardware: EEG, MEG, eye tracking, pupillometry, audio processors, microphones.
- **Document generation**: Sphinx, Jupyter, Pandoc, Markdown, R Markdown, reStructuredText, LaTeX, Beamer, HTML, (S)CSS.

SOFTWARE & CORPORA

- Leader (Steering Council Chair) of MNE-Python: human neurophysiology analysis. (repo)
- Maintainer of PyData Sphinx Theme: theme for software documentation websites. (repo)
- Co-creator of PHOIBLE: a database of over 3000 phonological inventories. (repo)
- Co-creator of UW/NU Corpus: a 2-dialect, 20-talker corpus of 200 parallel sentences of English.
- Co-creator of expyfun: run psychophysics experiments in Python. (repo)
- Creator of phonR: analyze & visualize vowels in R. (repo | CRAN)
- Creator of "Praat Semi-Auto": software to streamline manual measurements in acoustic phonetics, when automated methods are not good enough. (repo)

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PEER-REVIEWED ARTICLES (16 TOTAL, 6 FIRST-AUTHORED)

Omitted here: 3 invited talks, 4 conference proceedings, 1 technical report, 14 conference presentations, 0 preprint. Comprehensive BibTeX available here.

- Westner, McCloy, Larson, Gramfort, Katz, Smith, Delorme, Litvak, Makeig, Oostenveld, Schoffelen
 & Tierney (2025). Imaging Neurosci. (DOI | preprint)
- Yeatman, McCloy, Caffarra, Clarke, Ender, Gijbels, Joo, Kubota, Kuhl, Larson, O'Brien, Peterson, Takada & Taulu (2024). Brain Res. Bull. (DOI | preprint | repo)
- Clarke, Larson, Peterson, McCloy, Bosseler & Taulu (2022). Front. Neurol. (DOI)
- Emmons, Lee, Estes, Dager, Larson, McCloy, St. John & Lau (2022). J. Autism Dev. Disord. (DOI | preprint)
- o O'Brien, McCloy & Yeatman (2019). J. Acoust. Soc. Am. (DOI | preprint | repo)
- McCloy & Lee (2019). Lang. Cogn. Neurosci. (DOI | supplement | preprint | repo)
- ∘ McCloy, Larson & Lee (2018). J. Acoust. Soc. Am. (DOI | supplement | preprint | repo)
- o O'Brien, McCloy, Kubota & Yeatman (2018). Sci. Rep. (DOI | preprint | repo)
- McCloy, Lau, Larson, Pratt & Lee (2017). J. Acoust. Soc. Am. (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. (DOI | preprint | repo)
- McCloy, Larson, Lau & Lee (2016). J. Acoust. Soc. Am. (DOI | preprint | repo)
- McCloy & Lee (2015). J. Acoust. Soc. Am. (DOI | preprint | repo)
- McCloy, Wright & Souza (2015). Lang. Speech. (DOI | preprint)
- Barrack, McCloy & Wright (2014). Indogermanische Forsch. (DOI | preprint)
- Souza, Gehani, Wright & McCloy (2013). J. Amer. Acad. Audiol. (DOI | preprint)
- Moran, McCloy & Wright (2012). Language. (DOI | preprint | repo)

ACADEMIC SERVICE: PANELS, CONFERENCES $\dot{\mathscr{O}}$ COMMITTEES

- Review Panelist: NSF POSE (2022).
- Member: LSA Committee on Scholarly Communication in Linguistics (2014–2018).
- Session organizer: "Quantitative Methodology in Physiological and Psychophysical Data Analysis," 171st Meeting of the Acoustical Society of America, Salt Lake City (2016).
- Member: LSA Technology Advisory Committee (2013–2014).
- o Conference chair: 24th Northwest Linguistics Conference, Seattle (2008).
- 。 Referee: LSA Annual meeting (2014, 2016), Northwest Linguistics Conference (2008, 2012).

ACADEMIC SERVICE: MENTORSHIP $\dot{\sigma}$ OUTREACH

- o Organizer: MNE-Python New Developers Sprint (2021, 2022) and Intermediate Training (2023).
- 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

- "Building Pediatric and Clinical Data Pipelines for MNE-Python", CZI EOSS (2021-2023).
- "Improving Usability of Core Neuroscience Analysis Tools with MNE-Python", CZI EOSS (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).

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- "Research Excellence Award," UW Department of Linguistics (2013).
- FLAS fellowship, Modern Standard Chinese, U.S. Department of Education (2007–2008).