

NiMARE: Neuroimaging Meta-Analysis Research Environment

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Taylor Salo¹, Tal Yarkoni², Thomas E. Nichols³, Jean-Baptiste Poline⁴, Murat Bilgel⁵, Katherine L. Bottenhorn⁶, Dorota Jarecka⁷, James D. Kent⁸, Adam Kimbler¹, Dylan M. Nielson⁹, Kendra M. Oudyk¹⁰, Julio A. Peraza¹², Alexandre Pérez¹⁰, Puck C. Reenders¹, Julio A. Yanes¹¹, and Angela R. Laird¹²

1 Department of Psychology, Florida International University **2** Twitter **3** Big Data Institute, University of Oxford **4** Neurology and Neurosurgery, McGill University **5** National Institute on Aging **6** University of Southern California **7** Massachusetts Institute of Technology **8** University of Texas, Austin **9** National Institute of Mental Health **10** Montreal Neurological Institute, McGill University **11** Auburn University **12** Department of Physics, Florida International University

Summary

We present NiMARE (Neuroimaging Meta-Analysis Research Environment; RRID:SCR_017398), a Python library for neuroimaging meta-analyses and meta-analysis-related analyses ([Salo et al., 2022](#)). NiMARE is an open source, collaboratively-developed package that implements a range of meta-analytic algorithms, including coordinate- and image-based meta-analyses, automated annotation, functional decoding, and meta-analytic coactivation modeling. By consolidating meta-analytic methods under a common library and syntax, NiMARE makes it straightforward for users to employ the appropriate approach for a given analysis. In this paper, we describe NiMARE's architecture and the methods implemented in the library. Additionally, we provide example code and results for each of the available tools in the library.

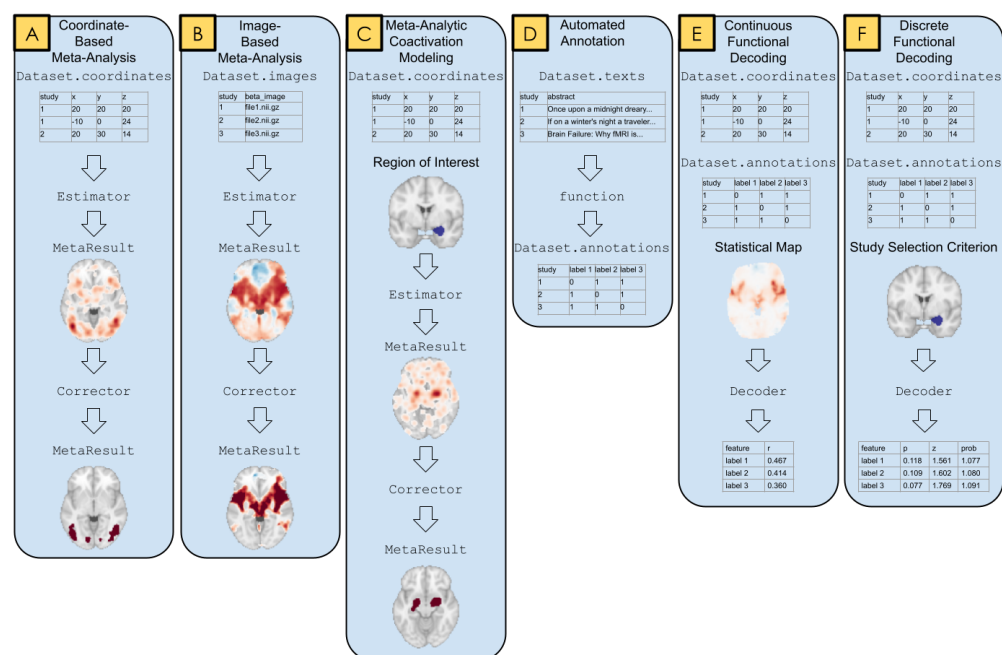


Figure 1: A graphical representation of tools and methods implemented in NiMARE.

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