Kimberly **Ray**

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Publications

Journal Articles

1. Peraza, J. A., Salo, T., Riedel, M. C., Bottenhorn, K. L., Poline, J.-B., Dockès, J., Kent, J. D., Bartley, J. E., Flannery, J. S., Hill-Bowen, L. D., Lobo, R. P., Poudel, R., Ray, K. L., Robinson, J. L., Laird, R. W., Sutherland, M. T., Vega, A. de la, & Laird, A. R. (2024). Methods for decoding cortical gradients of functional connectivity. *Imaging Neuroscience*, *2*, 1–32. `https://doi.org/10.1162/imag_a_00081`

2. Ray, K. L., Griffin, N. R., Shumake, J., Alario, A., Allen, J. J. B., Beevers, C. G., & Schnyer, D. M. (2023). Altered electroencephalography resting state network coherence in remitted MDD. *Brain Research*, *1806*, 148282. `https://doi.org/10.1016/j.brainres.2023.148282`

3. Don, H. J., Davis, T., Ray, K. L., McMahon, M. C., Cornwall, A. C., Schnyer, D. M., & Worthy, D. A. (2022). Neural regions associated with gain-loss frequency and average reward in older and younger adults. *Neurobiology of Aging*, *109*, 247–258. `https://doi.org/10.1016/j.neurobiolaging.2021.10.001`

4. Meier, S. K., Ray, K. L., Mastan, J. C., Salvage, S. R., & Robin, D. A. (2021). Meta-analytic connectivity modelling of deception-related brain regions. *PLOS ONE*, *16*(8), e0248909. `https://doi.org/10.1371/journal.pone.0248909`

5. Aytur, S. A., Ray, K. L., Meier, S. K., Campbell, J., Gendron, B., Waller, N., & Robin, D. A. (2021). Neural mechanisms of acceptance and commitment therapy for chronic pain: A network-based fMRI approach. *Frontiers in Human Neuroscience*, *15*. `https://doi.org/10.3389/fnhum.2021.587018`

6. Ramage, A. E., Ray, K. L., Franz, H. M., Tate, D. F., Lewis, J. D., & Robin, D. A. (2022). Cingulo-opercular and frontoparietal network control of effort and fatigue in mild traumatic brain injury. *Frontiers in Human Neuroscience*, *15*. `https://doi.org/10.3389/fnhum.2021.788091`

Preprints

1. Ray, K. L., Shumake, J., Laird, A., Beevers, C. G., & Schnyer, D. M. (2022). *Reduced network connectivity in healthy children with maternal history of depression in the ABCD cohort*. `https://doi.org/10.31234/osf.io/jwcqk`

2. Ray, K. L., Griffin, N., Shumake, J., Alario, A., Allen, J. B., Beevers, C. G., & Schnyer, D. M. (2021). *Altered electroencephalography resting state network coherence in remitted MDD*. `https://doi.org/10.31234/osf.io/ywqvx`

Books

Book Chapters

1. Aytur, S. A., Roy, G., Doyle, M., Ray, K. L., Meier, S. K., & Robin, D. A. (2022). Linking fMRI, pain, and addictions. In *Handbook of substance misuse and addictions* (pp. 1–31). Springer International Publishing. `https://doi.org/10.1007/978-3-030-67928-6_33-1`

Professional Presentations

Developing an International Data Governance Framework for Brain Data

2023

MACM (revisited) for Network Analysis and Graph Theory Modeling

McGill, Montreal, CA *2023*

Meta-Graph Theory Modeling

University of Texas Health Science Center San Antonio, Department of Radiological Sciences, San Antonio, TX *2022*

Understanding brain network dysfunction in clinical populations

University of New Hampshire, Department of Biological Sciences, Durham, New Hampshire *2022*

Conference Abstracts

A probabilistic atlas of white matter tracts and their functional associations

2023

Developing an International Data Governance Framework for Brain Data

2023

Altered resting state network coherence in remitted MDD

OHBM *2021*

Meta-analytic connectivity modelling of deception-related brain regions

OHBM *2021*

Relationship between elevated depressive symptoms, brain volume, and negative attention bias

OHBM *2021*

Honors

Funding

Service

BIDS *Austin, US*

BIDS Maintainer *2022 - present*

Mentoring and Teaching

Mentoring

Ariana White

Masters Committee Member *2024 - present*

Zhen Wei

Doctoral Research Mentorship *2023 - 2024*

Annie MacKenzie

Postdoctoral Mentorship *2023 - 2024*

Samantha Natal

Research Assistant Advisor *2021 - 2023*

Lauren Keith

Masters Committee Member *2022 - 2023*

Grace Jumonville

Undergraduate Research Advisor *2021 - 2022*

Rachel Kline

Undergraduate Research Advisor *2022 - 2022*

Megan McMahon

Dissertation Committee Member *2018 - 2022*

Angela Castillo

Volunteer Research Advisor *2020 - 2021*

Javaria Baig

Volunteer Research Advisor *2020 - 2021*

Teaching