



## Jeanette Alane Mumford

Social Sci Res Scholar

Psychology

### Bio

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#### ACADEMIC APPOINTMENTS

- Social Science Research Scholar, Psychology

### Publications

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#### PUBLICATIONS

- **Unintended bias in the pursuit of collinearity solutions in fMRI analysis.** *Imaging neuroscience (Cambridge, Mass.)*  
Mumford, J. A., Demidenko, M. I., Bjork, J. M., Chaarani, B., Feczko, E. J., Garavan, H. P., Hagler, D. J., Nelson, S. M., Wager, T. D., Poldrack, R. A.  
2025; 3
- **Unintended bias in the pursuit of collinearity solutions in fMRI analysis.** *bioRxiv : the preprint server for biology*  
Mumford, J. A., Demidenko, M. I., Bjork, J. M., Chaarani, B., Feczko, E. J., Garavan, H. P., Hagler, D. J., Nelson, S. M., Wager, T. D., Poldrack, R. A.  
2025
- **Corrigendum to "A multi-sample evaluation of the measurement structure and function of the modified monetary incentive delay task in adolescents" [Dev. Cogn. Neurosci. 65 (2024) 1-17].** *Developmental cognitive neuroscience*  
Demidenko, M. I., Mumford, J. A., Ram, N., Poldrack, R. A.  
2025: 101533
- **Why experimental variation in neuroimaging should be embraced.** *Nature communications*  
Kiar, G., Mumford, J. A., Xu, T., Vogelstein, J. T., Glatard, T., Milham, M. P.  
2024; 15 (1): 9411
- **Predicting Task Activation Maps from Resting-State Functional Connectivity using Deep Learning.** *bioRxiv : the preprint server for biology*  
Madsen, S. J., Uddin, L. Q., Mumford, J. A., Barch, D. M., Fair, D. A., Gotlib, I. H., Poldrack, R. A., Kuceyeski, A., Saggat, M.  
2024
- **Impact of analytic decisions on test-retest reliability of individual and group estimates in functional magnetic resonance imaging: A multiverse analysis using the monetary incentive delay task** *IMAGING NEUROSCIENCE*  
Demidenko, M. I., Mumford, J. A., Poldrack, R. A.  
2024; 2: 1-26
- **Impact of analytic decisions on test-retest reliability of individual and group estimates in functional magnetic resonance imaging: A multiverse analysis using the monetary incentive delay task.** *Imaging neuroscience (Cambridge, Mass.)*  
Demidenko, M. I., Mumford, J. A., Poldrack, R. A.  
2024; 2
- **Cognitive tasks, anatomical MRI, and functional MRI data evaluating the construct of self-regulation.** *Scientific data*  
Bissett, P. G., Eisenberg, I. W., Shim, S., Rios, J. A., Jones, H. M., Hagen, M. P., Enkavi, A. Z., Li, J. K., Mumford, J. A., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.  
2024; 11 (1): 809

- **Impact of analytic decisions on test-retest reliability of individual and group estimates in functional magnetic resonance imaging: a multiverse analysis using the monetary incentive delay task.** *bioRxiv : the preprint server for biology*  
Demidenko, M. I., Mumford, J. A., Poldrack, R. A.  
2024
- **A multi-sample evaluation of the measurement structure and function of the modified monetary incentive delay task in adolescents.** *Developmental cognitive neuroscience*  
Demidenko, M. I., Mumford, J. A., Ram, N., Poldrack, R. A.  
2023; 65: 101337
- **The response time paradox in functional magnetic resonance imaging analyses.** *Nature human behaviour*  
Mumford, J. A., Bissett, P. G., Jones, H. M., Shim, S., Rios, J. A., Poldrack, R. A.  
2023
- **Cognitive tasks, anatomical MRI, and functional MRI data evaluating the construct of self-regulation.** *bioRxiv : the preprint server for biology*  
Bissett, P. G., Eisenberg, I. W., Shim, S., Rios, J. A., Jones, H. M., Hagen, M. P., Enkavi, A. Z., Li, J. K., Mumford, J. A., MacKinnon, D. P., Marsch, L. A., Poldrack, R. A.  
2023
- **A dual-task approach to inform the taxonomy of inhibition-related processes.** *Journal of experimental psychology. Human perception and performance*  
Bissett, P. G., Jones, H. M., Hagen, M. P., Bui, T. T., Li, J. K., Rios, J. A., Mumford, J. A., Shine, J. M., Poldrack, R. A.  
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- **Neural Signatures of Pain Modulation in Short-Term and Long-Term Mindfulness Training: A Randomized Active-Control Trial.** *The American journal of psychiatry*  
Wielgosz, J., Kral, T. R., Perlman, D. M., Mumford, J. A., Wager, T. D., Davidson, R. J.  
2022: appiajp21020145
- **Relating psychiatric symptoms and self-regulation during the COVID-19 crisis.** *Translational psychiatry*  
Vaghi, M. M., Hagen, M. P., Jones, H. M., Mumford, J. A., Bissett, P. G., Poldrack, R. A.  
2022; 12 (1): 271
- **The Impact of Mindfulness Training on Police Officer Stress, Mental Health, and Salivary Cortisol Levels.** *Frontiers in psychology*  
Grupe, D. W., Stoller, J. L., Alonso, C., McGehee, C., Smith, C., Mumford, J. A., Rosenkranz, M. A., Davidson, R. J.  
2021; 12: 720753
- **Variability in the analysis of a single neuroimaging dataset by many teams.** *Nature*  
Botvinik-Nezer, R., Holzmeister, F., Camerer, C. F., Dreber, A., Huber, J., Johannesson, M., Kirchler, M., Iwanir, R., Mumford, J. A., Adcock, R. A., Avesani, P., Baczkowski, B. M., Bajracharya, et al  
2020; 582 (7810): 84-88
- **Variability in the analysis of a single neuroimaging dataset by many teams** *NATURE*  
Botvinik-Nezer, R., Holzmeister, F., Camerer, C. F., Dreber, A., Huber, J., Johannesson, M., Kirchler, M., Iwanir, R., Mumford, J. A., Adcock, R., Avesani, P., Baczkowski, B. M., Bajracharya, et al  
2020
- **Neural correlates of state-based decision-making in younger and older adults** *NEUROIMAGE*  
Worthy, D. A., Davis, T., Gorlick, M. A., Cooper, J. A., Bakkour, A., Mumford, J. A., Poldrack, R. A., Maddox, W. T.  
2016; 130: 13-23
- **Long-term neural and physiological phenotyping of a single human** *NATURE COMMUNICATIONS*  
Poldrack, R. A., Laumann, T. O., Koyejo, O., Gregory, B., Hover, A., Chen, M., Gorgolewski, K. J., Luci, J., Joo, S. J., Boyd, R. L., Hunicke-Smith, S., Simpson, Z. B., Caven, et al  
2015; 6
- **Functional System and Areal Organization of a Highly Sampled Individual Human Brain** *NEURON*  
Laumann, T. O., Gordon, E. M., Adeyemo, B., Snyder, A. Z., Joo, S. J., Chen, M., Gilmore, A. W., McDermott, K. B., Nelson, S. M., Dosenbach, N. U., Schlaggar, B. L., Mumford, J. A., Poldrack, et al  
2015; 87 (3): 657-670

- **Orthogonalization of Regressors in fMRI Models** *PLOS ONE*  
Mumford, J. A., Poline, J., Poldrack, R. A.  
2015; 10 (4)
- **If all your friends jumped off a bridge: The effect of others' actions on engagement in and recommendation of risky behaviors.** *Journal of experimental psychology. General*  
Helfinstein, S. M., Mumford, J. A., Poldrack, R. A.  
2015; 144 (1): 12-17
- **What do differences between multi-voxel and univariate analysis mean? How subject-, voxel-, and trial-level variance impact fMRI analysis** *NEUROIMAGE*  
Davis, T., LaRocque, K. F., Mumford, J. A., Norman, K. A., Wagner, A. D., Poldrack, R. A.  
2014; 97: 271-283
- **Functional imaging of sleep vertex sharp transients** *CLINICAL NEUROPHYSIOLOGY*  
Stern, J. M., Caporro, M., Haneef, Z., Yeh, H. J., Buttinelli, C., Lenartowicz, A., Mumford, J. A., Parvizi, J., Poldrack, R. A.  
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