

**Andrew Jahn**  
**January 2024**

**PROFESSIONAL EXPERIENCE**

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**Assistant Research Scientist**

2023-present                      Department of Radiology, University of Michigan, Ann Arbor

**Lecturer**

2023-present                      Department of Psychology, University of Michigan, Ann Arbor

**Research Lab Specialist**

2018-2023                        fMRI Laboratory, University of Michigan, Ann Arbor

**Postdoctoral Fellow**

2015-2018                        Haskins Laboratories, Yale University

**Neuroimaging Consultant**

2021-2022                        Harvard University  
2020-present                      Louisiana State University  
2019-2020                        Houston Methodist Medical Center  
2019-2022                        University of Connecticut  
2019                                University of Georgia  
2017-2019                        UC Irvine  
2016-2017                        University of Antwerp  
2015-2017                        University of Illinois at Urbana-Champaign  
2014                                McLean Hospital, Harvard Medical School  
2014-present                      Ohio State University  
2013                                Michigan State University

**Lab Technician**

2008-2010                        Ohio State University

**EDUCATION**

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2015                                PhD, Cognitive Neuroscience: Indiana University  
2008                                BA, Psychology: Carleton College

**GRANT SUPPORT**

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**Active Support**

09/01/2022 – 08/31/2027      NIH NIDCD R01 DC020717, Brang (PI), Jahn (co-PI) Characterizing the recovery of

\$2,811,800

spectral, temporal, and phonemic speech information from visual cues

### Pending Support

1/1/2025 – 12/31/2029

RFA-EY-21-003, **Jahn** (PI). Advanced Training in \$1,151,933  
Functional Magnetic Resonance Imaging Analysis and Reproducibility

### PUBLICATIONS

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1. Poldrack et al., **Jahn A** (in press). The Past, Present, and Future of the Brain Imaging Data Structure (BIDS). *Imaging Neuroscience*
2. Clement P, Petr J, Dijsselhof M, Padrela B, Pasternak M, Dolui S, Jarutyte L, Pinter N, Hernandez-Garcia L, **Jahn A**, Kuijer J, Barkhof F, Mutsaerts H, Keil V (2022). A beginner's guide to arterial spin labeling (ASL) image processing. *Frontiers in Neuroscience*
3. Woo JH, Azab H, **Jahn A**, Hayden B, Brown JW (2022). The PRO model accounts for the anterior cingulate cortex role in risky decision-making and monitoring. *Cognitive, Affective, & Behavioral Neuroscience*
4. Demidenko MI, Weigard AS, Ganesan K, Jang H, **Jahn A**, Huntley ED, Keating DP (2021). Interactions between methodological and interindividual variability: How monetary incentive delay (MID) task contrast maps vary and impact associations with behavior. *Brain & Behavior* 11(5)
5. Weiss B, **Jahn A**, Hyatt CS, Carter NT, Sweet LH, Miller JD, Haas BW (2021). Investigating the neural substrates of antagonistic externalizing symptoms and social-cognitive Theory of Mind: An fMRI examination of functional activity and synchrony. *Personality Neuroscience* 4, 1-10
6. Botvinik-Nezer et al., **Jahn A** (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature* 582:84-88
7. Kosciuk TR, Man V, **Jahn A**, Lee CH, Cunningham WA (2020). Decomposing the neural pathways in a simple, value-based choice. *Neuroimage* 214:116764
8. Demidenko MI, Huntley ED, **Jahn A**, Thomason ME, Monk CS, Keating DP (2020). Cortical and subcortical response to the anticipation of reward in high and average/low risk-taking adolescents. *Dev Cogn Neurosci* 44:100798.
9. Schulte E, Yokum S, **Jahn A**, Gearhardt AN (2019). Food cue reactivity in food addiction: A functional magnetic resonance imaging study. *Physiology & Behavior* 208
10. Johns CL, **Jahn A**, Jones HR, Kush D, Molfese PJ, Van Dyke JA, Magnuson JS, Tabor W, Mencl WE, Shankweiler DP, Braze D (2018). Performance differences on reading skill measures are related to differences in cortical grey matter structure in young adults. *Language, Cognition, & Neuroscience*

33:1275-1295

11. Rajesh A, Cooke GE, Monti JM, **Jahn A**, Daugherty AM, Kramer AF (2017) Differences in brain architecture in remote mild traumatic brain injury. *J Neurotrauma* 34:3280-3287
12. **Jahn A**, Nee DE, Alexander WH, Brown JW (2016) Distinct regions in medial prefrontal cortex process pain and cognition. *J Neurosci* 36:12385-92
13. de Mendizabal NV, Jones DR, **Jahn A**, Bies RR, Brown JW (2015). Nicotine and cotinine exposure from electronic cigarettes: A population approach. *Clinical Pharmacokinetics* 54:615-626
14. **Jahn A**, Nee DE, Alexander WH, Brown JW (2014) Distinct regions of anterior cingulate cortex signal prediction and outcome evaluation. *Neuroimage* 95:80-89
15. Nee DE, **Jahn A**, Brown JW (2014) Prefrontal Cortex Organization: Dissociating Effects of Temporal Abstraction, Relational Abstraction, and Integration with fMRI. *Cerebral Cortex* 24:2377-87
16. **Jahn A**, Nee DE, Brown JW (2011) The neural basis of predicting the outcomes of imagined actions. *Frontiers in Decision Neuroscience* 5:128
17. Cunningham WA, Johnsen IR, **Jahn A** (2011) Attitudes. In J. Decety & J. Cacioppo (Eds.), *The Handbook of Social Neuroscience*. Oxford, UK: Oxford University Press
18. Mowrer SM, **Jahn A**, Cunningham WA, Abduljalil AM (2011) The value of success: Acquiring gains, avoiding losses, and simply being successful. *PLoS One* 6:9
19. Cunningham WA, Arbuckle NL, **Jahn A**, Mowrer SM, Abduljalil AM (2010) Aspects of neuroticism and the amygdala: Chronic tuning from motivational styles. *Neuropsychologia* 49:657-662
20. **Jahn A**, Matsuki K, Molfese PJ, Van Dyke JA (under revision at *JEP: General*) Individual differences in white matter tractography: A random forests analysis

## PRESENTATIONS

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### Invited Talks

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| 2023 | <b>Jahn A.</b> Trends in best practices for neuroimaging research. University of Connecticut, Storrs CT            |
| 2023 | <b>Jahn A.</b> Learning to use visualization tools. University of South Carolina, Columbia SC                      |
| 2021 | <b>Jahn A.</b> Cluster correction. Georgia State University, Atlanta GA  |
| 2019 | <b>Jahn A.</b> Teaching neuroimaging methods: Challenges and future directions. Indiana University, Bloomington IN |

- 2018 **Jahn A.** Understanding and teaching neuroimaging analysis: Common difficulties and the search for answers. University of Michigan, Ann Arbor MI
- 2017 **Jahn A.** Distinct regions within medial prefrontal cortex process pain and cognition. National Institutes of Health, Bethesda MD
- 2013 **Jahn A.** Empirical comparison of computational models of mPFC function. University of Rochester, Rochester NY

## Posters

- 2022 **Novick AM,** Duffy KA, Stoddard J, Lazorwitz A, Jahn A, Costa V, Norton A, Belyavskaya A, Santoro N, Tregellas J, Sammel M, and Epperson CN. Neurobiology of the oral contraceptive pill: a placebo-controlled fMRI study measuring reward function. *Annual Poster Session, Department of Psychiatry, University of Colorado Anschutz Medical Campus.*
- 2019 Purcell J, **Jahn A,** Brown JW. Neural correlates of risk and reward evidence accumulation during decision-making. *The Annual Meeting of The Society for Neuroscience, Chicago IL*
- 2019 Purcell J, **Jahn A,** Brown JW. Differential salience network activation during visual attention to risky and certain outcomes. *Organization for Human Brain Mapping, Rome IT*
- 2017 **Jahn A,** Kush D, Lewis A, Van Dyke J. Prediction-related activity in the medial prefrontal cortex reflects processing of cataphor cues. *Annual Meeting of Society for the Neurobiology of Language, Baltimore MD*
- 2016 **Jahn A,** Nee DE, Alexander WH, Brown JW. Distinct regions within medial prefrontal cortex process pain and cognition. *Annual Meeting of The Society for Neuroscience, San Diego CA*
- 2015 **Jahn A,** Jones H, Johns CL, Kush D, Bontrager ML, Frost SJ, Van Dyke JA. Neural basis of conflict resolution in encoding and retrieval interference. *Annual Meeting of Society for Neurobiology of Language, Chicago IL*
- 2014 **Jahn A,** Strait C, Brown JW, Hayden B. Testing computational models of anterior cingulate cortex with monkey neurons. *Annual Meeting of The Society for Neuroscience, Washington D.C.*
- 2014 **Jahn A,** Nee DE, Alexander WH, Brown JW. Medial prefrontal cortex signals prediction errors across multiple domains of pain and cognitive control. *Annual Meeting of The Society for Neuroscience, Washington D.C.*
- 2013 **Jahn A,** Nee DE, Alexander W, Brown JW. Distinct regions of anterior cingulate cortex signal prediction and outcome. *Annual Meeting of The Society for Neuroscience, San Diego CA*

- 2013 **Jahn A**, Nee DE, Alexander W, Brown JW. Pain, congruency, and surprise: Prediction violation across domains in the anterior cingulate cortex. *Annual Meeting Cognitive Neuroscience Society*, San Francisco CA
- 2012 **Jahn A**, Nee DE, Alexander W, Brown JW. Distinct regions of anterior cingulate cortex signal prediction and outcome evaluation. *Annual Meeting of The Cognitive Neuroscience Society*, Chicago IL
- 2011 **Jahn A**, Nee DE, Brown JW. The neural basis of predicting the outcomes of planned actions. *The Annual Meeting of The Society for Neuroscience*, Washington D.C.
- 2010 Mowrer SM, **Jahn A**, Cunningham WA, Abduljalil AM. Separable effects of stimulus and outcome and their interaction. *Annual Meeting of Social and Affective Neuroscience*, Chicago IL

## TEACHING

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### Online

- 2012 - Creator of Andy's Brain Blog ([www.andysbrainblog.com](http://www.andysbrainblog.com))  
fMRI data analysis in AFNI, SPM, and FSL; computational modeling; statistics; FreeSurfer; experimental design with E-Prime. Over 16,000 subscribers and over 4 million views.
- 2019 - Creator and Editor of Andy's Brain Book (<https://andysbrainbook.readthedocs.io>)  
Tutorials on imaging analysis with FSL, AFNI, SPM, MRtrix, and FreeSurfer

### Workshops (Primary Instructor)

- 2023 *Basic and Advanced Machine Learning*. University of Wisconsin-Milwaukee
- 2023 *Analysis of Animal Brain Data with AFNI*. University of Florida
- 2023 *Basic and Advanced Functional Connectivity*. University of Washington
- 2022 *Introduction to AFNI*. Michigan State University
- 2021 *Introduction to FSL*. Harvard University
- 2021 *Introduction to AFNI and FreeSurfer*. University of Wisconsin-Milwaukee
- 2020 *fMRI Pitfalls and Functional Connectivity*. Ohio State University
- 2019 *Introduction to AFNI and Surface Mapping*. Indiana University
- 2018 *Introduction to Diffusion Imaging and MRtrix*. University of Michigan
- 2018 *Introduction to Graph Theory and the CONN Toolbox*. U. of Massachusetts Amherst
- 2018 *Introduction to fMRI Analysis and MVPA*. University of Wisconsin-Milwaukee
- 2018 *Introduction to FSL*. University of Massachusetts Amherst
- 2017 *Introduction to FreeSurfer*. Haskins Laboratories
- 2016 *Advanced connectivity analysis with AFNI*. Yale University
- 2014 *Introduction to FSL*. Indiana University
- 2013 *Single-subject analysis with AFNI*. University of Rochester

### University Courses (Primary Instructor)

2022-present	<i>Functional MRI Analysis and Advances</i> . University of Michigan
2013-2015	<i>Introductory Statistics</i> . Indiana University
2013-2015	<i>Introductory Psychology</i> . Indiana University

### Lab Instructor

2012	<i>Methods of Experimental Psychology</i> . Indiana University
2011	<i>Introduction to Neuroimaging Methods</i> . Indiana University

### PROFESSIONAL SKILLS

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<b>Neuroimaging Software</b>	AFNI, SPM, FSL, FreeSurfer, TORTOISE, MRtrix, fSL
<b>Statistical Software</b>	Matlab, R, SPSS
<b>Stimulus Presentation</b>	E-Prime, Presentation
<b>Programming Languages</b>	Unix, AWK, C
<b>Image and Video Editing</b>	Adobe Photoshop, Premiere Pro, Camtasia

### PROFESSIONAL SERVICE

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#### ***Ad hoc* reviewer**

Neuroimage  
Cognitive, Affective, and Behavioral Neuroscience  
Frontiers in Human Neuroscience  
Journal of Cognitive Neuroscience

### DISSERTATION COMMITTEES

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Karthikeyan Ganesan (2022), Department of Psychology, University of Michigan, *ad hoc* committee member

### MEMBERSHIPS

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Cognitive Neuroscience Society  
Society for Neuroscience