

## Jared A Nielsen PhD

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Brigham Young University  
 1070 KMBL  
 Provo, UT 84602  
 Phone: (801) 422-5294  
 Email: [jarednielsen@byu.edu](mailto:jarednielsen@byu.edu)  
 Website: [brain.byu.edu](http://brain.byu.edu)

### ACADEMIC APPOINTMENT

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2018 – current      **Assistant Professor, Department of Psychology and Neuroscience Center**  
 Brigham Young University, Provo, UT

### EDUCATION & TRAINING

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2014 – 2018      **Postdoctoral Fellow, Departments of Psychiatry and Psychology**  
 Harvard University, Cambridge, MA  
 Massachusetts General Hospital, Boston, MA (Advisor: Dr. Randy Buckner)

2013 – 2014      **Postdoctoral Fellow, Department of Radiology**  
 University of Utah, Salt Lake City, UT (Advisor: Dr. Jeffrey Anderson)

2013              **PhD, Neuroscience (also completed Higher Education Teaching Specialist program)**  
 University of Utah, Salt Lake City, UT (Advisors: Drs. Janet Lainhart, Jeffrey Anderson)

2009              **BS, *Cum Laude*, Neuroscience (Psychology minor)**  
 Brigham Young University, Provo, UT

### PUBLICATIONS (25 publications)

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[Link to Google Scholar profile](#)

# Trainee co-author      \* equal contribution by authors

- Zugman, A., Harrewijn, A., Cardinale, E.M., Zwiebel, H., Freitag, G.F., ... **Nielsen, J.A.**, ... Winkler, A.M. (in press). Mega-analysis methods in ENIGMA: The experience of the generalized anxiety disorder working group. *Hum Brain Mapp*. doi:10.1002/hbm.25096
- Siless, V., Davidow, J.Y., **Nielsen, J.A.**, Fan, Q., Hedden, T., Hollinshead, M., Beam, E., Vidal Bustamante, C.M., Garrad, M.C., Santillana, R., Smith, E.E., Hamadeh, A., Snyder, J., Drews, M.K., Van Dijk, K.R.R., Sheridan, M., Somerville, L.H., Yendiki, A. (2020). Registration-free analysis of diffusion MRI tractography data across subjects through the human lifespan. *NeuroImage*, 214, 116703.
- Martin-Brevet, S.\*, Rodriguez-Herreros, B.\*, **Nielsen, J.A.\***, Moreau, C., Modenato, C., Maillard, A. Pain, A., Richetin, S., Jønch, A.E., Qureshi, A.Y., Zurcher, N.R., 16p11.2 European Consortium, Simons Variation in Individuals Project Consortium, Chung, W.K., Sherr, E.H., Spiro, J.E., Beckmann, J.S., Hadjikhani, N., Raymond, A., Buckner, R.L., Draganski, B., Jacquemont, S. (2018). Quantifying the effects of 16p11.2 CNVs on brain structure: a multi-site ‘genetic-first’ MRI study. *Biol Psychiatry*, 84(4), 253-264.
- Ferguson, M.A., **Nielsen, J.A.**, King, J.B., Dai, L., Giangrosso, D.M., Holman, R., Korenberg, J.R., & Anderson, J.S. (2018). Reward, salience, and attentional networks are activated by religious experience in devout Mormons. *Soc Neurosci*, 13(1), 104-116.
- Travers, B.G., Tromp do, P.M., Adluru, N., Lange, N., Destiche, D., Ennis, C., **Nielsen, J.A.**, Froehlich, A.L., Prigge, M.B., Fletcher, P.T., Anderson, J.S., Zielinski, B.A., Bigler, E.D., Lainhart, J.E., & Alexander, A.L. (2015). Atypical development of white matter microstructure of the corpus callosum in males with autism: a longitudinal investigation. *Mol Autism*, 6, 15.

- Anderson, J.S., Treiman, S.M., Ferguson, M.A., **Nielsen, J.A.**, Edgin, J.O., Dai, L., Gerig, G., & Korenberg, J.R. (2015). Violence: heightened brain attentional network response is selectively muted in Down syndrome. *J Neurodev Disord*, 7(1), 15.
- Lange, N., Travers, B.G., Bigler, E.D., Prigge, M.B., Froehlich, A.L., **Nielsen, J.A.**, Cariello, A.N., Zielinski, B.A., Anderson, J.S., Fletcher, P.T., Alexander, A.A., & Lainhart, J.E. (2015). Longitudinal volumetric brain changes in autism spectrum disorder ages 6-35 years. *Autism Res*, 8(1), 82-93.
- Nielsen, J.A.**, Zielinski, B.A., Fletcher, P.T., Alexander, A.L., Lange, N., Bigler, E.D., Lainhart, J.E., & Anderson, J.S. (2014). Abnormal lateralization of functional connectivity between language and default mode regions in autism. *Mol Autism*, 5(1), 8.
- Zielinski, B.A., Prigge, M.B., **Nielsen, J.A.**, Froehlich, A.L., Abildskov, T.J., Anderson, J.S., Fletcher, P.T., Zygmunt, K.M., Travers, B.G., Lange, N., Alexander, A.L., Bigler, E.D., & Lainhart, J.E. (2014). Longitudinal changes in cortical thickness in autism and typical development. *Brain*, 137(Pt 6), 1799-1812.
- Travers, B.G., Bigler, E.D., Tromp do, P.M., Adluru, N., Froehlich, A.L., Ennis, C., Lange, N., **Nielsen, J.A.**, Prigge, M.B., Alexander, A.L., & Lainhart, J.E. (2014). Longitudinal processing speed impairments in males with autism and the effects of white matter microstructure. *Neuropsychologia*, 53, 137-145.
- Anderson, J.S., Zielinski, B.A., **Nielsen, J.A.**, & Ferguson, M.A. (2014). Complexity of low-frequency blood oxygen level-dependent fluctuations covaries with local connectivity. *Hum Brain Mapp*, 35(4), 1273-1283.
- Ferguson, M.A., **Nielsen, J.A.**, & Anderson, J.S. (2014). Altered resting functional connectivity of expressive language regions after speed reading training. *J Clin Exp Neuropsychol*, 36(5), 482-493.
- Zuo, X.-N., Anderson, J.S., Bellec, P., Birn, R.M., Biswal, B.B., ... **Nielsen, J.A.**, ... Milham, M.P. (2014). An open science resource for establishing reliability and reproducibility in functional connectomics. *Scientific Data*, 1.
- Nielsen, J.A.**, Zielinski, B.A., Fletcher, P.T., Alexander, A.L., Lange, N., Bigler, E.D., Lainhart, J.E., & Anderson, J.S. (2013). Multisite functional connectivity MRI classification of autism: ABIDE results. *Front Hum Neurosci*, 7, 599.
- Prigge, M.D., Bigler, E.D., Fletcher, P.T., Zielinski, B.A., Ravichandran, C., Anderson, J., Froehlich, A., Abildskov, T., Papadopolous, E., Maasberg, K., **Nielsen, J.A.**, Alexander, A.L., Lange, N., & Lainhart, J. (2013). Longitudinal Heschl's gyrus growth during childhood and adolescence in typical development and autism. *Autism Res*, 6(2), 78-90.
- Duffield, T.C., Trontel, H.G., Bigler, E.D., Froehlich, A., Prigge, M.B., Travers, B., Green, R.R., Cariello, A.N., Cooperrider, J., **Nielsen, J.A.**, Alexander, A., Anderson, J., Fletcher, P.T., Lange, N., Zielinski, B., & Lainhart, J. (2013). Neuropsychological investigation of motor impairments in autism. *J Clin Exp Neuropsychol*, 35(8), 867-881.
- Webb, J.T., Ferguson, M.A., **Nielsen, J.A.**, & Anderson, J.S. (2013). BOLD Granger causality reflects vascular anatomy. *PLoS ONE*, 8(12), e84279.
- Trontel, H.G., Duffield, T.C., Bigler, E.D., Froehlich, A., Prigge, M.B., **Nielsen, J.A.**, Cooperrider, J.R., Cariello, A.N., Travers, B.G., Anderson, J.S., Zielinski, B.A., Alexander, A., Lange, N., & Lainhart, J.E. (2013). Fusiform correlates of facial memory in autism. *Behav Sci (Basel)*, 3(3), 348-371.
- Prigge, M.B., Lange, N., Bigler, E.D., Merkle, T.L., Neeley, E.S., Abildskov, T.J., Froehlich, A.L., **Nielsen, J.A.**, Cooperrider, J.R., Cariello, A.N., Ravichandran, C., Alexander, A.L., & Lainhart, J.E. (2013). Corpus Callosum Area in Children and Adults with Autism. *Res Autism Spectr Disord*, 7(2), 221-234.

- Nielsen, J.A.**, Zielinski, B.A., Ferguson, M.A., Lainhart, J.E., & Anderson, J.S. (2013). An evaluation of the left-brain vs. right-brain hypothesis with resting state functional connectivity magnetic resonance imaging. *PLoS ONE*, 8(8), e71275.
- Anderson, J.S., **Nielsen, J.A.**, Ferguson, M.A., Burbach, M.C., Cox, E.T., Dai, L., Gerig, G., Edgin, J.O., & Korenberg, J.R. (2013). Abnormal brain synchrony in Down Syndrome. *Neuroimage Clin*, 2, 703-715.
- Froehlich, A.L., Anderson, J.S., Bigler, E.D., Miller, J.S., Lange, N.T., Dubray, M.B., Cooperrider, J.R., Cariello, A., **Nielsen, J.A.**, & Lainhart, J.E. (2012). Intact Prototype Formation but Impaired Generalization in Autism. *Res Autism Spectr Disord*, 6(2), 921-930.
- Zielinski, B.A., Anderson, J.S., Froehlich, A.L., Prigge, M.B., **Nielsen, J.A.**, Cooperrider, J.R., Cariello, A.N., Fletcher, P.T., Alexander, A.L., Lange, N., Bigler, E.D., & Lainhart, J.E. (2012). scMRI reveals large-scale brain network abnormalities in autism. *PLoS ONE*, 7(11), e49172.
- Anderson, J.S., Druzgal, T.J., Froehlich, A., DuBray, M.B., Lange, N., Alexander, A.L., Abildskov, T., **Nielsen, J.A.**, Cariello, A.N., Cooperrider, J.R., Bigler, E.D., & Lainhart, J.E. (2011). Decreased interhemispheric functional connectivity in autism. *Cereb Cortex*, 21(5), 1134-1146.
- Anderson, J.S., **Nielsen, J.A.**, Froehlich, A.L., DuBray, M.B., Druzgal, T.J., Cariello, A.N., Cooperrider, J.R., Zielinski, B.A., Ravichandran, C., Fletcher, P.T., Alexander, A.L., Bigler, E.D., Lange, N., & Lainhart, J.E. (2011). Functional connectivity magnetic resonance imaging classification of autism. *Brain*, 134(Pt 12), 3742-3754.

## MANUSCRIPTS SUBMITTED FOR REVIEW OR IN PREPARATION

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# Trainee co-author

\* equal contribution by authors

- Ferguson, M.A., Schaper, F.L.W.V.J., Cohen, A., Siddiqi, S., Merrill, S.M., **Nielsen, J.A.**, Grafman, J., Urgesi, C., Fabbro, F., & Fox, M.D. A neural circuit for spirituality and religiosity derived from patients with brain lesions. *Manuscript under review*.
- Harrewijn, A., Cardinale, E.M., Groenewold, N.A., Bas-Hoogendam, J.M., Aghajani, M., ... **Nielsen, J.A.**, ... Winkler, A.M., & Pine, D.S. Cortical and Subcortical Brain Structure in Generalized Anxiety Disorder – Findings from 28 research sites in the ENIGMA-Anxiety Working Group. *Manuscript under review*.
- Jacoby, R.J., Cassano, P., Hellberg, S.N., Bui, E., **Nielsen, J.A.**, Holmes, A.J., Buckner, R.L., Smoller, J.W., & Simon, N.M. The Transdiagnostic Role of Rumination and Cognitive Control Across Anxiety and Depression. *Manuscript under review*.
- Nielsen, J.A.** & Ferguson, M.A. Neuroscientific Methods for Investigating the Effects of Mental Illness on Spirituality, Religiosity, and the Brain During Adolescence. *Manuscript under review*.
- Nielsen, J.A.**, Mair, R.W., Baker, J.T., & Buckner, R.L. Precision Brain Morphometry: Feasibility and Opportunities of Extreme Rapid Scans. *Manuscript in preparation*.
- Nielsen, J.A.\***, Qureshi, A.Y.\*, Mukherjee, P., Berman, J.I., Roberts, T.P.L., Nagarajan, S.S., Spiro, J.E., Chung, W.K., Sherr, E.H., & Buckner, R.L. Topographic Shifts in Functional Connectivity & Reduced Lateralization in 16p11.2 Deletion Carriers: A Genetics-first approach to ASD. *Manuscript under review*.
- Numa, M.A.#, Frezzia, R.#, Ward, J.#, Prigge, M.D., Zielinski, B.A., Bigler, E.D., King, J.B., Lange, N., Alexander, A.L., Lainhart, J.E., & **Nielsen, J.A.** Comparison of the Trajectory of the Superior Temporal Asymmetrical Pit of Typically Developing and Autistic Individuals. *Manuscript in preparation*.

Peterson, M.<sup>#</sup>, Prigge, M.D., Zielinski, B.A., Bigler, E.D., King, J.B., Lange, N., Alexander, A.L., Lainhart, J.E., & **Nielsen, J.A.** Extra-Axial Cerebrospinal Fluid Volume Normalizes with Age in Autistic Individuals. *Manuscript under review.*

## BOOKS AND BOOK CHAPTERS

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**Nielsen, J.A.**, & Hutchison, R.M. (2018). Resting-State Functional Connectivity MRI (fcMRI). In J.S. Kreutzer, J. DeLuca & B. Caplan (Eds.), *Encyclopedia of Clinical Neuropsychology, 2nd Edition*: Springer-Verlag New York.

Anderson, J.S., Shah, L.M., & **Nielsen, J.A.** (2013). *Specialty Imaging: Functional MRI*. Altona, Canada: Amirsys Publishing, Inc.

Anderson, J.S., Ferguson, M.A., & **Nielsen, J.A.** (2013). Functional MRI in Autism. In M. F. Casanova, A. S. El-Baz & J. S. Suri (Eds.), *Imaging the brain in autism* (pp. 289-323). New York: Springer.

Zielinski, B.A., Prigge, M.D., **Nielsen, J.A.**, & Lainhart, J.E. (2013). Structural Imaging in Autism. In M.F. Casanova, A.S. El-Baz & J.S. Suri (Eds.), *Imaging the brain in autism* (pp. 135-177). New York: Springer.

## CONFERENCE PRESENTATIONS (2020 – 2021)

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<sup>#</sup> Trainee co-author

Gifford, D.<sup>#</sup>, Parker, L.<sup>#</sup>, Gilliat, S.<sup>#</sup>, Wild, J.<sup>#</sup>, Timpson, C.<sup>#</sup>, Melanson, D.<sup>#</sup>, **Nielsen, J.A.**, & South, M. (2021) Correlation between Face-to-Face and Digital Social Interaction and Suicidality in Autistic and Socially Anxious Individuals. *International Society for Autism Research* (Boston, MA).

Limon, D.L., Gifford, D.<sup>#</sup>, Melanson, D.<sup>#</sup>, Normansell-Mossa, K.M., **Nielsen, J.A.**, & South, M. (2021) Understanding the Influence of Social Interactions on Negative Affect in Autistic Adults with Social Anxiety. *International Society for Autism Research* (Boston, MA).

Melanson, D.<sup>#</sup>, Gifford, D.<sup>#</sup>, Parker, L.<sup>#</sup>, Gilliat, S.<sup>#</sup>, Wild, J.<sup>#</sup>, Timpson, C.<sup>#</sup>, Melanson, D.<sup>#</sup>, **Nielsen, J.A.**, & South, M. (2021) Social Connectedness and Stress in Autistic Compared to Socially Anxious Adults. *International Society for Autism Research* (Boston, MA).

Numa, M.A.<sup>#</sup>, Frezzia, R.<sup>#</sup>, Ward, J.<sup>#</sup>, Prigge, M.D., Zielinski, B.A., Bigler, E.D., King, J.B., Lange, N., Alexander, A.L., Lainhart, J.E., & **Nielsen, J.A.** (2021). Comparison of the Trajectory of the Superior Temporal Asymmetrical Pit of Typically Developing and Autistic Individuals. *International Society for Autism Research* (Boston, MA).

Peterson, M.<sup>#</sup>, Prigge, M.D., Zielinski, B.A., Bigler, E.D., King, J.B., Lange, N., Alexander, A.L., Lainhart, J.E., & **Nielsen, J.A.** (2021). Extra-Axial Cerebrospinal Fluid Volume Normalizes with Age in Autistic Individuals. *International Society for Autism Research* (Boston, MA).

Regehr, L.J.<sup>#</sup>, Gabrielsen, T.P., **Nielsen, J.A.**, & South, M. (2021). A Longitudinal Look: How Sleep Impacts Suicidal Thoughts and Behaviors in Autism and Social Anxiety. *International Society for Autism Research* (Boston, MA).

Borden, W.<sup>#</sup>, Numa, M.A.<sup>#</sup>, Frezzia, R.<sup>#</sup>, Christiansen, M.<sup>#</sup>, James, M.<sup>#</sup>, Tandiman P.<sup>#</sup>, Ward J.<sup>#</sup>, & **Nielsen, J.A.** (2020). Comparison between the Superior Temporal Asymmetrical Pit of Typically Developing and Autistic Individuals. *Society of Biological Psychiatry* (New York City, NY).

Frezzia, R.<sup>#</sup>, Numa, M.A.<sup>#</sup>, Borden, W.<sup>#</sup>, Ward J.<sup>#</sup>, Macy, C.<sup>#</sup>, Rogers, K.<sup>#</sup>, Christiansen, M.<sup>#</sup>, & **Nielsen, J.A.** (2020). Reduced Asymmetry of the Superior Temporal Asymmetrical Pit in 16p11.2 Deletion Carriers. *Society of Biological Psychiatry* (New York City, NY).

**INVITED TALKS**

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2020	Society for Research on Adolescence Pre-Conference, San Diego, California
2018	Frontotemporal Dementia Unit, MGH, Charlestown, Massachusetts
2017	Imaging Elevated Symposium, University of Utah, Salt Lake City, Utah Center for Anxiety and Traumatic Stress Disorders, MGH, Boston, Massachusetts
2016	LDS Life Science Symposium, Thanksgiving Point, Lehi, Utah
2015	Depression and Bipolar Support Alliance, McLean Hospital, Belmont, Massachusetts
2014	MRI Research Seminar, Brigham Young University, Provo, Utah Department of Psychology, Harvard University, Cambridge, Massachusetts

**GRANTS**

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2020 – 2021	<i>Development of Religious Distress fMRI Task in Scrupulosity</i> Role: Principal Investigator Source: BYU MRI Research Facility Seed Grant Award: \$20,000
2020 – 2021	<i>Comparison of Brain Plasticity in Younger and Older Adults During Limb Disuse</i> Role: Principal Investigator Sources: BYU Office of Creative and Research Activities Faculty Mentoring Environment Grant (MEG) BYU Gerontology Program BYU College of Family Home and Social Sciences Research Grant Award: \$10,000 (MEG) + \$9,000 (Gerontology) + \$6,500 (FHSS)
2019 – 2021	<i>From Big Data to Big Impact: Improving Risk Prediction for Suicidal Thoughts and Behaviors in College-Age Young Adults</i> Role: Co-Investigator Source: BYU Interdisciplinary Grant Award: \$120,000
2018	<i>Structural and Functional Brain Asymmetries in Autism</i> Role: Principal Investigator Source: BYU donor Award: \$3,700

**MENTORING**

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**PhD Dissertation Committee Chair (1 student)**

2019 – current	Madeline Peterson, Experimental Psychology
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**PhD Dissertation Committee Service (8 students)**

2020 – current	Julie Van, Experimental Psychology, (Chair: Brock Kirwan)
2019 – current	Lindsay Regehr, Counseling Psychology, (Chair: Terisa Gabrielsen)
2019 – current	Holly Paxton-Winiarski, Clinical Psychology, (Chair: Derin Cobia)
2019 – current	Rachael Slate, Clinical Psychology, (Chair: Derin Cobia)
2019 – 2020	Benjamin Carter, Neuroscience, (Chair: Steven Luke)
2018 – current	Ariana Hedges-Muncy, Experimental Psychology, (Chair: Brock Kirwan)
2018 – current	Jolynn Jones, Experimental Psychology, (Chair: Daniel Kay)
2018 – 2020	Nathan Muncy, Experimental Psychology, (Chair: Brock Kirwan)

**Brigham Young University Master's Thesis Committee Chair (1 student)**

2020 – current Alyssa Kozlowski, Neuroscience

**Undergraduate & Post-Baccalaureate Mentoring (64 students)**

BYU Psychology (20) Benson Bunker (2019 – 2020), Kealani Browne (2020 – current), Kiana Bunnell (2019 – current), Maddalena Cigolini (2019), Julia Critchfield (2020 – current), Oromia Eshete (2019 – 2020), Summer Frandsen (2018 – current), Rebecca Frezzia (2019 – current), Mary Hunt (2018 – 2019), Marissa James (2018 – 2019), David Johnson (2019 – 2020), Cameron Macy (2019 – current), Hailey Johnson (2020 – current), Josh Olivier (2018 – current), Jeremy Rodgers (2018 – current), Hunter Schow (2019 – 2020), Rachel Shellman (2019), Greg Sorenson (2019 – 2020), John Ward (2019 – current)

BYU Neuroscience (33) Eli Baughan (2019 – current), Braeden Black (2018 – current), Wes Borden (2019 – current), Sam Brown (2019 – current), Sabrina Camargo (2020 – current), Rikki Choi (2019 – 2020), Mikayla Christiansen (2019 – 2020), Anne Clark (2020 – current), Johanna Dobler (2018 – 2019), Devin Downing (2019 – 2020), Daniela Garcia (2020 – current), Daniel Gifford (2018 – current), Stephen Gilliat (2020 – current), Devon Jacob (2019), Sarah Kamhout (2020 – current), Danny Kutz (2018 – current), Josh Matthews (2019), Dave Melanson (2019 – current), Megan Merkley (2019), Jarom Morris (2018 – current), Matt Nitz (2019 – current), Miguel Numa (2018 – current), Lauren Parker (2019 – current), Kelsie Rogers (2019 – current), Hazel Skousen (2018 – 2020), David Stout (2020 – current), Ashton Tanner (2019 – 2020), Nikki Tanner (2019), Cece Timpson (2020 – current), Matt Viveiros (2019 – current), Jayson Wild (2019 – current), Kody Wilde (2019), Hayden Wood (2020 – current)

Other (5) Tanner Littleton (Biological Science Education, 2019), Justin Hunt (Bioinformatics, 2018 – 2019), Leia Pappenfuss (School of Family Life, 2018), Maggie Peterson (Post-Baccalaureate, 2020 – current), Patricia Tandiman (BYU-Hawaii Psychology, 2019)

Harvard (6) Ellie Beam (Psychology, 2014 – 2016), Jacob Goldberg (Psychology, 2015 – 2016), Aya Hamadeh (Psychiatry, 2014 – 2016), Julia Lord (Neurobiology, 2015), Melinda Wang (Neurobiology, 2015 – 2016), Arpi Youssoufian (Psychology, 2018)

**HONORS AND AWARDS**

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2017 **Outstanding Emerging Investigator**  
Recognized by the University of Utah's Department of Radiology and Imaging Sciences  
University of Utah, Salt Lake City, UT

2009 – 2011 **NIH T32 Training Grant Fellowship**  
Two-time recipient of a fellowship that covers stipend, tuition, insurance, research travel, and research materials  
University of Utah, Salt Lake City, UT

**PROFESSIONAL AFFILIATIONS**

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International Society for Autism Research  
Organization for Human Brain Mapping  
Society for Neuroscience  
Society of Biological Psychiatry

**COURSES TAUGHT**

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F 2020 (1x) PSYCH 370: Sensation & Perception (Brigham Young University)

W 2019 – F 2020 (3x) PSYCH 111: Introduction to Psychological Science (Brigham Young University)

- F 2018 – Sp 2020 (5x) PSYCH 375: Cognition (Brigham Young University)
- W 2017 (1x) PSY 1202: Modern Neuroanatomy (Harvard University)  
Co-instructor: Dr. Randy Buckner
- W 2013 (1x) PSYCH 6951/BIOEN 6900: Introduction to fMRI (University of Utah)  
Co-instructors: Dr. Jeff Anderson and Michael Ferguson

### **PROFESSIONAL SERVICE AND ACTIVITIES**

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- 2019 – current **Recruitment Committee Member**  
Brigham Young University, Provo, UT
- 2018 – current **Social Committee Member**  
Brigham Young University, Provo, UT

### **AD HOC REVIEWER**

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American Journal of Psychiatry  
Frontiers in Human Neuroscience  
Frontiers in Systems Neuroscience  
Human Brain Mapping  
Molecular Autism  
Neurobiology of Aging  
PLOS ONE