

# SIGNE BRAY

## EDUCATION & TRAINING

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Postdoctoral Scholar, University of Calgary <i>Supervised by Dr. Glenda MacQueen, Department of Psychiatry and Hotchkiss Brain Institute</i>	2011-2012
Postdoctoral Scholar, Stanford University <i>Supervised by Dr. Allan Reiss, Center for Interdisciplinary Brain Science Research</i>	2008-2010
California Institute of Technology, Pasadena, CA, USA PhD in Computation and Neural Systems	2008
University of Waterloo, Waterloo, ON, Canada Honors Bachelor of Applied Science in Computer Engineering	2003

## POSITION

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Associate Professor, University of Calgary	2019-present
Assistant Professor, University of Calgary <i>Department of Radiology</i>	2013-2019 Parental leave Sept 2016-Mar 2017
Scientific Director Child and Adolescent Imaging Research (CAIR) Program	2015-present

## SELECT PUBLICATIONS

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- Dimond D, Heo S, Ip A, Rohr CS, Tansey R, Graff K, Smith RE, Dhollander T, Lebel C, Dewey D, Connelly A, Bray S (2020) *Maturation and interhemispheric asymmetry in neurite orientation and density in early childhood* (In Press: NeuroImage)
- Dimond D, Rohr CS, Smith RE, Dhollander T, Cho I, Lebel C, Dewey D, Connelly A, Bray S (2020) *Early childhood development of white matter fiber density and morphology* Neuroimage. Apr 15;210:116552.
- Rohr C, Kamal S, Bray S (2020) *Building functional connectivity neuromarkers of behavioral self-regulation in children with and without Autism Spectrum Disorder* Dev Cogn Neurosci. Feb;41:100747.
- Schuetze M, Cho I, Vinette S, Rivard K, Ten Eycke K, Cozma A, McMorris C, Dewey D, Bray S (2019) *Learning with individual-interest outcomes in Autism Spectrum Disorder* Dev Cogn Neurosci. Aug;38:100668.
- Dimond D, Schuetze S, Smith R, Dhollander T, Cho I, Vinette S, Ten Eycke K, Lebel C, McCrimmon A, Dewey D, Connelly A, Bray S (2019). *Reduced white matter fiber density in Autism Spectrum Disorder*. Cereb Cortex. Apr 1;29(4):1778-1788.
- Rohr C, Arora A, Cho I, Dimond D, Dewey D, Bray S (2018) *Functional network integration and attention skills in young children*. Developmental Cognitive Neuroscience 30:200-211.
- Rohr C, Vinette S, Cho I, Parsons K, Benischek A, Lebel C, Dewey D, Bray S (2017) *Functional connectivity of the dorsal attention network predicts selective attention in 4-7 year old girls*. Cereb Cortex 27(9):4350-4360.
- Schuetze M, Park MT, Cho I, MacMaster FP, Chakravarty MM, Bray S (2016) *Morphological differences in subcortical regions in Autism Spectrum Disorder*. Neuropsychopharmacology 41(11):2627-37.
- Krongold M, Cooper C, Bray S (2015) *Modular development of cortical gray matter in childhood and adolescence*. Cereb Cortex 27(2):1125-1136.