

**Brandon Craig, BSc (Honours)**  
MD/PhD Candidate, Neuroscience  
Cumming School of Medicine, University of Calgary  
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## EDUCATION & TRAINING

- 2025 - **Radiation Oncology FRCPC Residency**  
Arthur Child Cancer Centre  
Calgary, Alberta, Canada
- 2017 - 2025 **Doctor of Medicine (MD) & Doctor of Philosophy (PhD) Joint Degree**  
Cumming School of Medicine, University of Calgary  
PhD Department: Clinical Neuroscience, University of Calgary  
PhD Supervisor: Adam Kirton, MD/MSc, FRCPC  
PhD Defended: June 18<sup>th</sup>, 2021  
Thesis Title: Understanding the role of the non-lesioned hemisphere in children with perinatal stroke and hemiparetic cerebral palsy. (*Governor General Gold Medal Finalist*)
- 2013-2017 **Bachelor of Science (Honours) in Psychology**, MacEwan University  
Supervisor: Christopher Striemer, PhD  
Thesis Title: Modulation of covert reflexive attention by transcranial direct current stimulation (tDCS) of the cerebellum. (*Best Oral Thesis Defense*)

## AWARDS/RECOGNITIONS (n= 35, Total to date: \$490,230)

### National

- 2021-2024 CIHR Leaders in Medicine Scholarship, \$66,000  
2019-2022 CIHR Vanier Graduate Scholarship, \$150,000  
2019-2022 CIHR Frederick Banting and Charles Best CGS Doctoral Award, \$105,000 (*Declined*)  
2019 Co-Chairs Award of Innovation, *Canadian Stroke Congress 2019*  
2016 NSERC Undergraduate Student Research Award, \$5,625

### Provincial/University

- 2025 MacEwan University Alumni Emerging Leader Award  
2024 Achievers in Medical Science Leaders in Medicine Scholarship, \$1,000  
2023 Lydia Sikora Award, Leaders in Medicine Program, \$5833.33  
2023 Achievers in Medical Science Leaders in Medicine Scholarship, \$1,000  
2023 Cochrane Leadership Award, Leaders in Medicine Program, \$1,200  
2022 Governor General Gold Medal Finalist  
2022 Dr. Lydia Sikora Memorial Award for Research in Medicine, \$4,300  
2021 J.B. Hyne Research Innovation Award, \$500  
2021 ACHRI Publication Award, \$500  
2020 Graduate College Scholar, \$1,000  
2020 Jon Meddings Leadership Award, \$1,000  
2019 Graduate Citizenship Award, \$2,000  
2018-2021 Cumming School of Medicine Graduate Scholarship, \$120,000 (*accept \$5K topup in 2019*)  
2017-2018 Queen Elizabeth II Graduate Scholarship, \$10,800 (*Declined in 2018*)  
2018 Emerging Leadership Award Finalist  
2017 President's Medal of Academic Success & Student Leadership  
2017 MacEwan Board of Governors' Scholarship, \$2,000  
2017 Best Oral Thesis Defense, \$50  
2016 Louise McKinney Post-Secondary Scholarship, \$2,500  
2016 BSc Continuing Scholarship, \$1,700  
2016 Eric & Lorraine Young Leadership Award, \$2,200  
2016 Award of Recognition (MacEwan Ambassador Program)  
2015 BSc Continuing Scholarship, \$1,000  
2015 Jason Lang Scholarship, \$1,000

2013 BSc Entrance Scholarship, \$1,000

### **Travel**

2020 Medical Trainee Fund Travel Award, \$622  
2019 Alberta Children's Hospital Research Institute Travel Award, \$500  
2019 Kids Brain Health Network Spring Travel Award, \$500  
2019 Medical Trainee Fund Travel Award, \$600  
2018 Graduate Travel Award, \$800

### **PUBLICATIONS (n=17; Co-supervised students underlined)**

1. Erker C, Mynarek M, **Craig BT** .... Lafay-Cousin, L. (2025) Relapsed SHH medulloblastomas in young children. Are there alternatives to full-dose craniospinal irradiation? *Neuro-Oncology* (<https://doi.org/10.1093/neuonc/noaf092>)
2. Hilderley AJ\*, Dunbar M\*, Andersen J, Fehlings D, Metzler M, Carlson HL, Zewdie ET, Hodge J, O'Grady K, Carsolio L, Dlamini N, Giuffre A, Cole L, Kuo HC, Bourgeois A, Hollis A, Maiani M, Ciechanski P, Jadavji Z, **Craig BT**, Kelly D, Keough J, Wrightson J, Fay L, Switzer L, Pajevic M, Ramsay A, Sametz M, Brooks BL, Yaskina M, Batara J, Hill MD, Kirton A. Neuromodulation for Children With Hemiparesis and Perinatal Stroke: A Randomized Clinical Trial. *JAMA Neurology*. Published online February 3, 2025. doi:[10.1001/jamaneurol.2024.4898](https://doi.org/10.1001/jamaneurol.2024.4898)
3. Hassett J, **Craig BT**, Hilderley AJ, Kinney-Lang E, Yeates KO, MacMaster FP, Miller J, Noel M, Brooks B, Barlow K, Lebel C, Kirton A, Carlson HL (2024). Development of the whole-brain functional connectome explored via graph theory analysis. *Aperture Neuro*, doi:[10.52294/001c.124565](https://doi.org/10.52294/001c.124565)
4. Hassett J, Craig BT, Hilderley AJ, Kinney-Lang E, Yeates KO, MacMaster FP, Miller J, Noel M, Brooks B, Barlow K, Lebel C, Kirton A, Carlson HL (2024). Development of the whole-brain functional connectome explored via graph theory analysis. *Aperture Neuro*. <https://doi.org/10.52294/001c.124565>
5. Shinde K, **Craig BT**, Hassett J, Dlamini N, Brooks BL, Kirton A, Carlson HL (2023). Alterations in cortical morphometry of the contralesional hemisphere in children, adolescents, and young adults with perinatal stroke. *Scientific Reports*, 13. <https://doi.org/10.1038/s41598-023-38185-8>
6. Dunbar M, Norris A, **Craig BT**, Chaput K, Mohammad K, Cole L, Esser M, Caughey A, Carlson HL, Kirton A. (2023) Relationship between neonatal brain injury and objective measures of head trauma: A case-control study. *Neurology*, in press.
7. **Craig BT**, Geeraert B, Kinney-Lang E, Hilderley AJ, Yeates K, Kirton A, Noel M, MacMaster FP, Bray S, Barlow KM, Brooks BL, Lebel C, Carlson HL. (2023). Structural brain network lateralization across childhood and adolescence. *Human Brain Mapping*, 44, 1711-1724.
8. **Craig BT**, Kinney-Lang E, Hilderley AJ, Carlson HL, Kirton A. (2022) Structural connectivity of the sensorimotor network within the non-lesioned hemisphere of hemiparetic children with perinatal stroke. *Scientific Reports*, 12(1), 1-12.
9. Larsen N, **Craig BT**, Hilderley AJ, Virani S, Murias K, Brooks BL, Kirton A, Carlson HL (2021). Frontal interhemispheric structural connectivity, attention, and executive function in children with perinatal stroke. *Brain and Behavior*, e2433.
10. Grohs M, Lebel C, Carlson HL, **Craig BT**, Dewey D. (2021). Subcortical brain structure in children with developmental coordination disorder: A T1-Weighted Volumetric Study. *Brain Imaging and Behavior*, 1-10.
11. Kirton A, Metzler M, **Craig BT**, Hilderley A, Dunbar M, Giuffre A, Zewdie E, Carlson HL. (2021) Perinatal stroke: Mapping and modulating developmental plasticity to optimize outcomes. *Nature Reviews Neurology*, 1-18.
12. **Craig BT**, Morrill A, Anderson B, Danckert J, & Striemer C. (2021). Cerebellar strokes impair both spatial and non-spatial attention. *Cortex*, 139,27-42.
13. **Craig BT**, Hilderley A, Kirton A, & Carlson HL (2021). Imaging Developmental and Interventional Plasticity Following Perinatal Stroke. *Canadian Journal of Neurological Sciences*, 48(2), 157-171.

14. Grohs, M. N., **Craig, B. T.**, Kirton, A., & Dewey, D. (2020). Effects of Transcranial Direct Current Stimulation on Motor Function in Children 8–12 Years With Developmental Coordination Disorder: A Randomized Controlled Trial. *Frontiers in Human Neuroscience*, 14.
15. Carlson, H. L., **Craig, B.T.**, Hilderley, A. J., Hodge, J., Rajashekar, D., Mouches, P., ... & Kirton, A. (2020). Structural and functional connectivity of motor circuits after perinatal stroke: A machine learning study. *NeuroImage: Clinical*, 28, 102508.
16. **Craig BT**, Hilderley A, Kinney-Lang E, Long X, Carlson HL, & Kirton A. (2020). Developmental neuroplasticity of the white matter connectome in children with perinatal stroke. *Neurology*, 95(18), e2476-e2486.
17. **Craig BT**, Carlson H, & Kirton A. (2019). Thalamic diaschisis following perinatal stroke is associated with clinical disability. *NeuroImage: Clinical*, 21, 101660.
18. **Craig BT**, Olsen C, Mah S, Carlson H, Wei X, & Kirton A. (2018). Crossed cerebellar atrophy in perinatal stroke. *Stroke*, 50(1): 175-177.

#### **PUBLISHED ABSTRACTS** (Co-supervised students underlined; awards italicized)

1. Erker, C., **Craig, B.**, Bailey, S., Massimino, M., Larouche, V., Finlay, J., ... & Lafay-Cousin, L. (2022, November). Relapse SHH medulloblastoma in young children: Are there alternatives to full-dose craniospinal irradiation? *International Symposium on Pediatric Neuro-Oncology, June 12-15, Hamburg, Germany*.
2. Dunbar M, Norris A, **Craig BT**, Mohammad K, Esser M, Carlson HL, Kirton A (2021). Neonatal stroke is not associated with birth trauma. *International Stroke Conference (virtual)*, March 17-19, 2021.
3. Shinde K, **Craig BT**, Hassett JD, Kirton A, Carlson HL (2021). Bilateral developmental alterations in cortical morphology in children with perinatal stroke. *International Stroke Conference (virtual)*, March 17-19, 2021.
4. **Craig BT**, Hilderley A, Carlson HL, Kirton A. (2020) Cortico-ponto-cerebellar tractography in perinatal stroke. *International Stroke Conference, Los Angeles, CA, USA*.
5. **Craig BT**, Hilderley A, Carlson H, Kirton A. (2019) *Global structural connectivity of the contralesional hemisphere is associated with clinical function in hemiparetic children with perinatal stroke. Canadian Stroke Congress, Ottawa, ON, CAN. – Co-Chairs Award of Innovation*
6. Striemer C, **Craig B**, Morrill A, Botha N, Anderson B, & Danckert J. (2018). Cerebellar contributions to spatial and non-spatial attention. *Canadian Association for Neuroscience Satellite Symposium, Vancouver, BC, CAN*.
7. **Craig B** & Striemer C. (2017). Modulation of covert reflexive attention by transcranial direct current stimulation (tDCS) of the cerebellum, *MacEwan University Research Day, Edmonton, AB, CAN*.
8. **Craig B**, Anderson B, Danckert J, & Striemer C. (2017). Cerebellar lesions impair reflexive but not voluntary covert attention, *MacEwan University Research Day, Edmonton, AB, CAN*.
9. Striemer C, **Craig B**, Anderson B, & Danckert J. (2017). Cerebellar contributions to reflexive and voluntary covert visual attention, *Cognitive Neuroscience Society, San Francisco, CA, USA*.

#### **INVITED TALKS/LECTURES**

1. **Craig B.** (2020) Understanding developmental structural neuroplasticity in children with perinatal stroke using advanced MRI techniques. *Hotchkiss Brain Institute Research Day 2020, Calgary, AB. (postponed due to COVID-19)*
2. **Craig B.** (2019) Advanced clinical neuroimaging in cerebral palsy. *Translational and Precision Medicine Journal Club, Calgary AB*.
3. **Craig B.** (2019) Developmental neuroplasticity of the structural connectome in children with perinatal stroke and hemiparetic cerebral palsy. *Sam Darwish Symposium on Neurodevelopmental Disorders, Calgary, AB*.
4. **Craig B.** (2019). Structural neuroplasticity in children with perinatal stroke. *Advanced Imaging Seminar, Calgary, AB*.
5. **Craig B.** (2019). Global structural connectivity of the contralesional hemisphere is associated with clinical function in hemiparetic children with perinatal stroke. *Alberta Imaging Symposium, Calgary, AB*.
6. **Craig B.** (2019). Research update: Neuroimaging in perinatal stroke. *Calgary Pediatric Stroke Program Parent Support Group, Calgary, AB*.

7. **Craig B.** (2019). Clinical applications of advanced neuroimaging in children. *Owerko Neurodevelopmental Rounds, Calgary, AB.*
8. **Craig B.** (2018). Neuroimaging biomarkers of perinatal stroke outcomes. *Neuromotor Rounds, Calgary, AB.*
9. **Craig B.** (2018). Optimizing recovery from perinatal and geriatric stroke: Various applications of brain stimulation. *MacEwan University, Edmonton, AB.*
10. **Craig B.** (2018). Stimulating the brains of pediatric stroke survivors. *TEDx MacEwanU, Edmonton, AB.*

#### **PAPERS IN PREPARATION** (Co-supervised students underlined)

1. Striemer C, Angus-Cook B, **Craig BT**, Botha N, Morrill A. (2025). Transcranial direct current stimulation to the left cerebellum influences reflexive covert attention. [under review, *Cerebellum*]

#### **RESEARCH TRAINING/EXPERIENCE**

- 2017 - **PhD Thesis**, University of Calgary
- 2017 - **MRI Operator** (Level 2), Child & Adolescence Imaging Research
- 2017 - **TMS Operator** (Level 2), Non-Invasive Neurostimulation Network
- 2018-2019 **Research Associate**, Cumming School of Medicine – Science Communication
- 2015-2017 **Research Assistant**, MacEwan University, Cognitive Psychology
- 2015-2017 **Undergraduate Honours Thesis**, MacEwan University
- 2017 **Neuroimaging Analysis**, University of Western Ontario
- 2017 **Independent Study Research Student**, MacEwan University, Perinatal Stroke
- 2016 **Research Assistant**, MacEwan University, Neurophysiology
- 2016 **NSERC Undergraduate Researcher**, University of Waterloo/MacEwan University

#### **JOURNAL REVIEWER EXPERIENCE**

- 2022 - European Journal of Neurology
- 2022 - NeuroImage: Clinical

#### **PRESENTATIONS** (Co-supervised students underlined; awards italicized)

1. **Craig BT**, Nordal R, Patel S, Chafe S, Logie N. (2025). Using real world data to compare late effects for pediatric patients receiving photon vs proton craniospinal radiation. *Congress of the International Society of Pediatric Oncology, October 20-23, Amsterdam, The Netherlands.*
2. **Craig BT**, Nordal R, Patel S, Chafe S, Logie N. (2025). Toxicities of Brain and Spinal Cord Photon and Proton Radiation in Pediatric Brain Tumors Assessed by Real-World Data (RWD). *American Society for Radiation Oncology (ASTRO), September 27-October 1, 2025, San Francisco, CA, USA.*
3. **Craig BT**, Nordal R, Patel S, Chafe S, Logie N. (2025). Using real world data to assess toxicities following photon and proton radiotherapy in children with brain tumors. *Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, September 10-13, 2025, Calgary, AB.*
4. **Craig BT**, Kim I, Lausch A, Mesci A, Lukovic J, Keilty D, Tsang R, Tsang D, Yan M. (2025) Outcomes and toxicities following conventional radiation therapy for pituitary neuroendocrine tumours (PitNETs). *Canadian Association of Radiation Oncology (CARO) Annual Scientific Meeting, September 10-13, 2025, Calgary, AB.*
5. **Craig BT**, Kim I, Lausch A, Mesci A, Lukovic J, Keilty D, Tsang R, Tsang D, Yan M. (2025) Outcomes and toxicities following conventional radiation therapy for pituitary neuroendocrine tumours (PitNETs). *University of Toronto Department of Radiation Oncology Research Day, May 13, 2025, Toronto, ON.*
6. Hassett JD, **Craig BT**, Hilderley AJ, Kinney-Lang E, Yeates KO, MacMaster FP, Miller J, Noel M, Brooks BL, Barlow K, Lebel C, Kirton A, Carlson HL (2024). Development of the whole-brain functional connectome explored via graph theory analysis. *Federation of European Neuroscience Societies (FENS) Forum 2024, June 25-29, Vienna, Austria*
7. Carlson HL, Hassett JD, **Craig BT**, Hilderley AJ, Yeates KO, Noel M, Miller J, MacMaster FP, Bray S, Barlow K, Brooks BL, Lebel C, Forkert N, Kirton A (2024). Fingerprinting individual differences in

lesion impact through imaging: The FIDELITI Dashboard, a patient-centered dashboard for brain health. *International Pediatric Stroke Organization 2024 Congress, March 22-24, Toronto, Canada.*

8. Dhanao A, Metzler M, **Craig BT**, Hilderley AJ, Kuczynski A, Dukelow SP, Kirton A, & Carlson HL. (2023) Structural connectivity of the reaching network and clinical function in children with perinatal stroke. *Organization of Human Brain Mapping, Montreal, Canada.*
9. Hilderley A\*, Dunbar M\*, Andersen J, Fehlings D, Metzler M, Carlson H, Zewdie E, Hodge J, Floer A, O'Grady K, Carsolio L, Dlamini N, Giuffre A, Cole L, Kuo HC, Bourgeois A, Hollis A, Maiani M, Ciechanski P, Jadavji Z, **Craig BT**, Kelly D, Keough J, Wrightson J, Fay L, Switzer L, Batara J, Yaskina M, Hill MD, Kirton A. *Stimulation for Perinatal Stroke: Optimizing Recovery Trajectories (the SPORT trial)*. Poster Presentation at CHILD-BRIGHT Conference; 2023 Jun 8; Toronto CAN.
10. Erker C, **Craig BT**, Bailey S, Massimino M, Larouche V, Finlay J, Kline C, Michael G, Margol A, Cohen K, Cacciotti C, Harrods V, Doris K, Abdelbaki M, Amayiri N, Wang Z, Hansford H, Hukin J, Salloum R, Hoffman L, Murray J, Ginn K, Zaptocky Z, Baroni L, Ramawamy V, Gilheens S, Aguiers D, Mazewski C, Shah S, Strother D, Muller S, Gajjar A, Northcott P, Clifford S, Robinson G, Bouffet E, Lafay-Cousin, L. (2022) Relapsed SHH medulloblastomas in young children. Are there alternatives to full-dose craniospinal irradiation? *International Society of Pediatric Oncology, Barcelona, Spain.*
11. Bell, S., Maiani, M., Hilderley, A., **Craig, BT.**, Carlson, HL., & Kirton, A. (2022) Developmental plasticity of the visual system following perinatal stroke. *HBI/ACHRI/Owerko/Mathison Summer Student Research Symposium, Calgary, Canada.*
12. Erker C, **Craig BT**, Bailey S, Massimino M, Larouche V, Finlay J, Kline C, Michael G, Margol A, Cohen K, Cacciotti C, Harrods V, Doris K, Abdelbaki M, Amayiri N, Wang Z, Hansford H, Hukin J, Salloum R, Hoffman L, Murray J, Ginn K, Zaptocky Z, Baroni L, Ramawamy V, Gilheens S, Aguiers D, Mazewski C, Shah S, Strother D, Muller S, Gajjar A, Northcott P, Clifford S, Robinson G, Bouffet E, Lafay-Cousin, L. (2022) Relapsed SHH medulloblastomas in young children. Are there alternatives to full-dose craniospinal irradiation? *International Symposium on Pediatric Neuro-Oncology, Hamburg, Germany.*
13. Pradhan M, **Craig BT**, Hilderley AJ, Kirton A, Carlson HL. (2022). Structural connectivity-based segmentation of the thalamus in perinatal stroke. *Poster presentation at the Organization of Human Brain Mapping, Glasgow, Scotland, June 19-23, 2022.*
14. Olesen A, Geeraert B, **Craig BT**, Carlson HL, Kirton A (2021). Microstructure of white matter pathways and manual performance in perinatal stroke. *HBI Summer Student Symposium, Calgary AB.*
15. Bell S, **Craig BT**, Kirton A, Carlson HL (2021). Developmental plasticity of the visual system following perinatal stroke. *HBI Summer Student Symposium, Calgary AB.*
16. Dhanao A, Metzler M, **Craig BT**, Kirton A, Carlson HL (2021). Structural connectivity of sensory tracts is associated with reaching performance in children with perinatal stroke. *HBI Summer Student Symposium, Calgary AB.*
17. Dunbar M, Norris A, **Craig BT**, Mohammad K, Esser M, Carlson HL, Kirton A (2021). Neonatal stroke is not associated with birth trauma. *International Stroke Conference (virtual), March 17-19, 2021.*
18. Shinde K, **Craig BT**, Hassett JD, Kirton A, Carlson HL (2021). Bilateral developmental alterations in cortical morphology in children with perinatal stroke. *International Stroke Conference (virtual), March 17-19, 2021.*
19. Hassett JD, Carlson HL, **Craig BT**, Kirton A (2020). T1/T2 Ratios: Investigating myelination in perinatal stroke populations. *Organization of Human Brain Mapping (OHBM), Montreal QC (online), June 26-30, 2020.*
20. Carlson HL, **Craig BT**, Hodge J, Rajashekar D, Mouches P, Forkert ND, Kirton A (2020). Neuroimaging predicts personalized motor function after perinatal stroke: A machine learning study. *Organization of Human Brain Mapping (OHBM), Montreal QC (online), June 26-30, 2020.*
21. Carlson HL, **Craig BT**, Hodge J, Rajashekar D, Mouches P, Forkert ND, Kirton A (2020). Neuroimaging predicts personalized motor function after perinatal stroke: A machine learning study. *Whistler Connectivity Workshop, Whistler BC, March 1-4, 2020*
22. **Craig BT**, Hilderley A, Carlson HL, Kirton A. (2020). *Cortico-Ponto-Cerebellar Structural Connectivity in Perinatal Stroke. International Stroke Congress 2020, Los Angeles, USA. Professor Led-Poster Tour.*



23. **Craig BT**, Hilderley A, Kinney-Lang E, Carlson HL, Kirton A. (2019) Global structural connectivity in perinatal stroke. *Clinician-Investigator Trainee Association of Canada & Canadian Society for Clinical Investigation Annual General Meeting, Banff, AB.*
24. **Craig BT**, Hilderley A, Kinney-Lang E, Carlson HL, Kirton A. (2019) Global structural connectivity of the contralesional hemisphere is associated with clinical function in hemiparetic children with perinatal stroke. *11<sup>th</sup> Annual Leaders In Medicine Research Symposium, Calgary, AB.*
25. **Craig BT**, Hilderley A, Carlson H, Kirton A. (2019) Global structural connectivity of the contralesional hemisphere is associated with clinical function in hemiparetic children with perinatal stroke. *Canadian Stroke Congress, Ottawa, ON. – Co-Chairs Award of Innovation*
26. Hilderley A, Duszynski C, Carlson H, **Craig BT**, Dunn J, Kirton A. (2019) Functional near infrared spectroscopy as an assessment of developmental and interventional plasticity in children with perinatal stroke. *Canadian Stroke Congress, Ottawa, ON.*
27. Norris A, Carlson HL, **Craig BT**, Hilderley A, Kirton A. (2019) The role of birth trauma in neonatal arterial ischemic stroke. *Alberta Children's Hospital Research Institute Summer Student Research Day, Calgary, AB.*
28. Shinde K, Carlson HL, **Craig BT**, Hassett J, Kirton A. (2019) Assessment of cortical thickness variations in perinatal stroke by surface-based morphometry. *Alberta Children's Hospital Research Institute Summer Student Research Day, Calgary, AB.*
29. Larsen N, **Craig BT**, Hilderley A, Virani S, Brooks BL, Kirton A, Carlson HL. (2019) White matter microstructure of frontal circuits and executive functioning after perinatal stroke. *Alberta Children's Hospital Research Institute Summer Student Research Day, Calgary, AB.*
30. Paffrath B, Carlson HL, Hilderley A, **Craig B**, Kinney-Lang E, Duszynski C, Kirton A. (2019) Evaluating resting-state functional connectivity using functional near-infrared spectroscopy in children with hemiplegic cerebral palsy. *Hotchkiss Brain Institute Summer Research Day, Calgary, AB.*
31. **Craig B**, Hilderley A, Long X, Kirton A, Carlson H. (2019) Global structural connectivity of the contralesional hemisphere is associated with clinical function in hemiparetic children with perinatal stroke. *Vi Riddell Pediatric Rehabilitation Research Symposium, Calgary, AB.*
32. **Craig B**, Hilderley A, Long X, Kirton A, Carlson H. (2019) White-matter connectome neuroplasticity in perinatal stroke relates to clinical motor function. *Organization of Human Brain Mapping, Rome, Italy.*
33. Hilderley A, **Craig B**, Hassett J, Kirton A, Carlson H. (2019) Focal corticospinal tract abnormalities in children with perinatal stroke. *Organization of Human Brain Mapping, Rome, Italy.*
34. **Craig B**, Carlson H, Kirton A. (2018). Thalamic diaschisis following perinatal stroke and its relationship to clinical motor function. *International Child Neurology Congress, Mumbai, India.*
35. Shinde K, Carlson H, **Craig B**, Hassett J, Kirton A (2018) Assessment of cortical thickness variations in perinatal stroke by grey matter voxel-based morphometry. *Hotchkiss Brain Institute Summer Research Day, Calgary, AB.*
36. Shinde K, Carlson H, **Craig B**, Hassett J, Kirton A (2018) Assessment of cortical thickness variations in perinatal stroke by grey matter voxel-based morphometry. *Alberta Children's Hospital Research Institute Summer Student Symposium, Calgary, AB. – Best Poster Award*
37. **Craig B**, Carlson H, Kirton A. (2018) Thalamic plasticity following perinatal stroke. *HBI Research Day 1-Minute Data Blitz, Calgary AB.*
38. **Craig B**, Carlson H, Kirton A. (2018) Thalamic diaschisis following perinatal stroke and its relation to clinical motor function. *Hotchkiss Brain Institute Conference, Calgary, AB.*
39. **Craig B**, Carlson H, Kirton A. (2018) Thalamic diaschisis following perinatal stroke related to clinical motor function. *Cumming School of Medicine Radiology Research Day, Calgary, AB.*
40. **Craig B**, Carlson H, Kirton A. (2018) Thalamic diaschisis following perinatal stroke and its relation to clinical motor function. *Alberta Children's Hospital Research Institute (ACHRI) Symposium, Calgary, AB.*
41. Angus-Cook B, **Craig B**, & Striemer C. (2018). Cerebellar tDCS influences the onset of inhibition of return. *Banff Annual Seminar in Cognitive Sciences, Banff, AB.*
42. **Craig B**, Carlson, H, & Kirton A (2018). Developmental neuroplasticity of the structural connectome in children with perinatal stroke. *Child & Adolescence Imaging Research Symposium, Calgary, AB.*
43. **Craig B**, Carlson, H, & Kirton A (2018). Developmental neuroplasticity of the structural connectome in children with perinatal stroke. *Brain Functional Organization, Connectivity, and Behavior, Whistler, BC.*

44. Gill S, **Craig B**, McCreary C, Smith E, & Ismail Z (2018). Structural connectivity of neuropsychiatric symptoms (NPS) in associated with cognitive decline and dementia, *Littmann Research Day, Calgary, AB*.
45. **Craig B**, Carlson H, & Kirton A (2017). Developmental and interventional neuroplasticity of the structural connectome in children with perinatal stroke. *Pediatric Rehabilitation Research Symposium, Calgary, AB*.
46. **Craig B**, Anderson B, Danckert J, & Striemer C (2017). Cerebellar lesions slow the onset of inhibition of return. *Banff Annual Seminar in Cognitive Science (BASICS), Banff, AB*.
47. **Craig B** & Striemer C (2017). *Modulation of covert reflexive attention by transcranial direct current stimulation (tDCS) of the cerebellum, MacEwan University Research Day, Edmonton, AB.*  
– Best Presentation Award
48. **Craig B**, Anderson B, Danckert J, & Striemer C (2017). Cerebellar lesions impair reflexive but not voluntary covert attention, *MacEwan University Research Day, Edmonton, AB*.
49. Striemer C, **Craig B**, Anderson B, & Danckert J (2017). Cerebellar contributions to reflexive and voluntary covert visual attention, *Cognitive Neuroscience Society, San Francisco, CA, USA*.
50. **Craig B**, Anderson B, Danckert J, & Striemer C (2017). Cerebellar lesions impair reflexive but not voluntary covert attention, *Prairie-Perception, Action, Cognition Team Conference, Canmore, AB*.
51. **Craig B** & Striemer C (2016). Can transcranial direct current stimulation (tDCS) affect reflexive covert attention? *MacEwan In-House Conference, Edmonton, AB*.

## TEACHING EXPERIENCE

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|-----------|---|
| 2021      | <b>Lecturer</b> , Advanced Magnetic Resonance Imaging, University of Calgary  |
| 2020      | <b>Lecturer</b> , Senior-Year Neuropathology, Mount Royal University  |
| 2019      | <b>Lecturer</b> , White-matter Neuroimaging Seminar, University of Calgary  |
| 2016-2017 | <b>Teaching Assistant</b> , Department of Psychology, MacEwan University<br>Cognitive Psychology, Human Neuropsychology |

## SUPERVISORY EXPERIENCE

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| 2019-2021 | <b>Mr. Jordan Hasset</b> – University of British Columbia BSc Student (Co-supervisor)<br>“T1/T2 imaging in perinatal stroke.”<br>Awards: AIHS Summer Studentship (\$6,000)   |
| 2019-2021 | <b>Ms. Nicole Larsen</b> – University of Calgary BSc Psychology Student (Co-supervisor)<br>“White-matter tractography of the anterior forceps in children with unilateral perinatal stroke”<br>Awards: AIHS Summer Studentship (\$6,000)                                   |
| 2019-2021 | <b>Ms. Abbey Norris</b> – University of Western Ontario Health Sci Student (Co-supervisor)<br>“The role of birth trauma in neonatal arterial ischemic stroke”  |
| 2018-2021 | <b>Mr. Karan Shinde</b> – University of Calgary BSc Biology Student (Co-supervisor)<br>“Differences in cortical thickness of motor cortical regions following perinatal stroke”<br>Awards: Best Poster Presentation ACHRI Research Day, AIHS Summer Studentship (\$6,000). |
| 2019      | <b>Ms. Mary Kate Dichoso</b> – University of Calgary BSc Psychology Student (Co-supervisor)<br>“White-matter connectome hemispheric asymmetry in typically developing children.”   |
| 2019      | <b>Mr. Brett Paffrath</b> – University of Calgary BSc Biology Student (Co-supervisor)<br>“Evaluating functional connectivity using near-infrared spectroscopy in children with hemiparetic cerebral palsy.”  |
| 2018-2019 | <b>Ms. Noaah Reaume</b> – University of Calgary BSc Psychology Student (Co-supervisor)<br>“White-matter connectome in patients with transient ischemic attacks”  |

## CAMPUS INVOLVEMENT

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| 2024 | <b>Panelist</b> , Parenthood in Medicine, University of Calgary |
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2022	<b>President</b> , Leaders in Medicine Program, University of Calgary
2021	<b>Co-Chair</b> , Leaders in Medicine Program, University of Calgary
2020-2021	<b>Graduate Student Representative</b> , Leaders in Medicine Program, University of Calgary
2019-2020	<b>President</b> , Hotchkiss Brain Institute Trainee Organization
2017-2020	<b>Committee Member</b> , Outreach Committee, Hotchkiss Brain Institute Trainee Organization, University of Calgary
2017-2020	<b>Committee Member</b> , Mental Health & Wellness Committee, University of Calgary Graduate Student Association
2018-2019	<b>Director</b> , Orientation Committee, Hotchkiss Brain Institute Trainee Organization, University of Calgary.
2017-2018	<b>Committee Member</b> , Orientation Committee, Hotchkiss Brain Institute Trainee Organization, University of Calgary
2015-2017	<b>Vice-President</b> (re-elect), MacEwan Health Promotion
2015-2017	<b>MacEwan Ambassador</b> , MacEwan University
2016-2017	<b>Student Representative &amp; Voting Member</b> , MacEwan University Research Ethics Board

## RELATED VOLUNTEER EXPERIENCE

2019 - 2021	<b>Volunteer</b> , Rotary Flames House, Calgary, AB
2018 - 2020	<b>Founder &amp; Director</b> , '4 StAGES of Science' A website platform aimed to bridge the gap between researchers and the general public. Funding received from HBI/HBITO.
2016 - 2017	<b>Family Liaison</b> , Intensive Care Unit, Royal Alexandra Hospital, <i>Edmonton, AB</i>
2015 - 2017	<b>Chef</b> , Hope Mission Meal Service, <i>Edmonton, AB</i>
2014 - 2016	<b>Volunteer</b> , Anatomic Pathology Lab, Royal Alexandra Hospital, <i>Edmonton, AB</i>
2015	<b>Speaker</b> , Volunteer Resources, Alberta Health Services, <i>Edmonton, AB</i>
2012 - 2014	<b>Assistant Coach</b> , Maple Leaf Athletic Club Bantam AAA, <i>Edmonton, AB</i>

## EVENT ORGANIZATION

2021	<b>COVID-19 Vaccination Information Update</b> , University of Calgary Graduate College An event aimed to provide awareness of COVID-19 vaccinations to University of Calgary graduate students.
2019	<b>Event Organizer</b> , Brain Bee Competition National high school neuroscience competition hosted at the University of Calgary.
2018	<b>Event Organizing Committee Member</b> , Campus Alberta Neuroscience Annual Symposium Designated to find and invite clinical neuroscience keynote speakers, accept clinical trainee presentations and posters, and help organize the symposium.
2018	<b>Event Volunteer</b> , 'Cooking Class with Campus Community Kitchen' Event aimed to help teach graduate students how to cook an affordable and healthy meal.
2018	<b>Event Organizer</b> , 'Speed-Friending' Helped develop a networking event for graduate students of the U of C to promote building friendships and a positive support system.
2018	<b>Event Organizer</b> , 'Brain Bee Competition' National high school neuroscience competition hosted at the University of Calgary.
2017	<b>Event Volunteer</b> , 'Paint Night' Helped prepare a paint night for graduate students at the University of Calgary to promote a healthy mental hygiene as part of the MH&W Committee of the U of C GSA.
2017	<b>Event Director</b> , 'Holmes for YESS' Silent auction which raised \$1,795 for the Youth Empowerment & Support Services in Edmonton, Alberta.
2016	<b>Event Director</b> , 'Music for MSF' Silent auction with performances from various local artists which raised \$1,000 for Doctors Without Borders.



- 2016      **Event Co-Director**, 'Operation Christmas'  
Raised \$625 to fill shoeboxes filled with toys and necessities to underprivileged children across the globe.
- 2016      **Event Director**, 'Trauma Informed Care'  
President of Pediatrics for the Alberta Medical Association, Dr. Tami Masterson, informed students and staff around the university about medical issues that are currently happening locally.

## **WORK EXPERIENCE**

- 2015 - 2018      **Statistician & Player Development Coordinator**, Edmonton Oilers Hockey Club of the National Hockey League (NHL)