CURRICULUM VITAE **Désirée Lussier**

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EDUCATION			
2019	Ph.D. Developmental Psychology, Behavioral and Cognitive Neuroscience (dual specialization), University of Florida		
2018	M.S. Psychology, University of Florida		
PROFESSIONAL APPOINTMENTS			
2019 -	Postdoctoral Researcher, Centre de recherche de l'Institut universitaire de gériatrie de Montréal, Université de Montréal, Montréal, QC, Canada		
2015 - 2019	Graduate Student Research Assistant, University of Florida, Department of Psychology, Gainesville, FL, USA		
2013 - 2015	Clinical Research Associate, Seattle Children's Research Institute, Child Health, Behavior and Development, Seattle, WA, USA		
2012 – 2015	Research Assistant, University of Washington Medical Center, Radiology Department, Integrated Brain Imaging Center, Seattle, WA, USA		

PUBLICATIONS

Peer reviewed

- Badhwar A., Collin-Verreault, Y., **Lussier, D.,** Sharmarke, H., Orban, P., Urchs, S., Chouinard, I., Vogel, J., Potvin, O., Duchesne, S., Bellec, P. (2020). A dataset of long-term consistency values of resting-state fMRI connectivity maps in a single individual derived at multiple sites and vendors using the Canadian Dementia Imaging Protocol. *Data in Brief.* 31:105699.
- **Lussier, D.**, Cruz-Almeida, Y., Ebner, N.C. (2019) Musculoskeletal pain and brain morphology: oxytocin's potential as a treatment for chronic pain in aging. *Frontiers in Aging Neuroscience*. 11:338. doi: 10.3389/fnagi.2019.00338
- Richards T., Grabowksi T., Askren, K., Boord, P., Yagle, K., Mestre, Z, Robinson, P., Welker, O., **Gulliford, D.**, Nagy, W., Berninger, V. (2015). Contrasting brain patterns of writing-related DTI parameters, fMRI connectivity, and DTI-fMRI connectivity correlations in children with and without dysgraphia or dyslexia. *Neuroimage: Clinical*, 8, 408-421. doi: 10.1016/j.nicl.2015.03.018

Encyclopedia entries

Ebner, N.C., **Gulliford, D.,** Yumusak, S. (2016). Saccadic Eye Movement. *Encyclopedia of Clinical Neuropsychology*. doi: 10.1007/978-3-319-56782-2 1400-2

Thesis/dissertation

Lussier, D. (2019). Pain and Aging: Brain Structure and the Effects of Oxytocin (Doctoral dissertation). *University of Florida*.

Lussier, D. (2018). Age differential effects of oxytocin on resting state functional connectivity in women (Master's thesis). *University of Florida*.

FELLOWSHIPS, HONORS AND AWARDS

- 2018 McKnight Brain Institute Training Enhancement Opportunity Travel Award, University of Florida, \$1,850
- 2015 2019 *Graduate Fellowship Top-Off Award*, University of Florida, College of Liberal Arts and Sciences and Department of Psychology, \$5,000 per year for 4 years
- 2015 2019 *Graduate School Fellowship Program Award*, University of Florida, College of Liberal Arts and Sciences and Department of Psychology
- 2013 *Magna Cum Laude*, Ashford University, Department of Psychology

CONFERENCE PRESENTATIONS

(*indicates undergraduate/trainee presenter)

- **Lussier, D.**, Badhwar, A., Shamarke, H., Boré, A., Dixon, R., Bellec, P. (October 2020). Evaluating the embedding quality of whole-brain dynamic parcellation (Dypac) resting-state fMRI on the CCNA and SIMON datasets. Recorded video poster presentation for the Canadian Consortium on Neurodegeneration in Aging, virtual, Canada
- *Myers, E., **Lussier, D.**, Horta, M., Frazier, I., Polk, R., Feifel, D., Ebner, N. C. (June 2019). Four-week intranasal oxytocin increases insula volume and associated empathy scores in aging. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy.
- **Lussier, D.**, Fillingim, R.B., Riley, J.L., Cohen, R., Woods, A., Porges, E., Ebner, N.C., Cruz-Almeida, Y. (April 2019) Associations between pain interference and brain volume in community-dwelling older adults. Poster presented the American Pain Society Scientific Meeting, Milwaukee, WI, USA.

- *Myers, E., **Lussier, D.**, Horta, M., Frazier, I., Polk, R., Feifel, D., Ebner, N. C. (January 2019). *Increase in empathy and insula volume after 4-week intranasal oxytocin administration in older adults*. Poster presented at 9th Annual North Central Florida Chapter of the Society for Neuroscience Conference, Gainesville, Florida.
- Ebner, N. C., Månsson, K. N. T., Lin, T., Lussier, D., Horta, M., Frazier, I., Weir, D., Feifel, D., Fischer, H. (January 2019). *Neuroplasticity and cognitive benefits associated with chronic intranasal oxytocin administration in aging.* Talk at the Alpine Brain Imaging Meeting, Champery, Switzerland.
- **Lussier, D.**, Horta, M., Porges, E., Woods, A., Cohen, R., Ebner, N.C., Cruz-Almeida, Y. (November 2018). *Pain modulation is associated with cingulate morphology in older adults with musculoskeletal pain.* Poster presentation at the Society for Neuroscience Conference, San Francisco, CA, USA.
- **Lussier, D.,** *Hayes, R., Horta, M., Lin, T., Frazier, I., Weir, D., Perez, E., Feifel, D., Månsson, K.N.T., Fischer, H., Ebner, N.C. (June 2018). *Four-week intranasal oxytocin vs placebo administration modulation of amygdala and accumbens volume.* Poster presentation at the Annual Meeting of the Organization for Human Brain Mapping, Singapore.
- *Sannegowda, R., **Lussier, D.,** Ebner, N.C., Cruz-Almeida, Y. (June 2018). Cerebellar white matter volume is associated with clinical and experimental pain in older individuals with musculoskeletal pain. Poster presentation at the Annual Meeting of the Organization for Human Brain Mapping, Singapore.
- Månsson, K. N. T., **Lussier, D.,** Cortes, D. S., Lin, T., Horta, M., Frazier, I., Feifel, D., Fischer, H., Ebner, N. C. (June 2018). *Neuroplasticity after acute and repeated exposure to oxytocin: a multi-site MRI analysis.* Poster presentation at the Annual Meeting of the Organization for Human Brain Mapping, Singapore.
- **Gulliford, D.**, Chen, H., Porges, E., Lin, T., Fischer, H., Feifel, D., Cohen, R. A., Ebner, N. C. (June 2017). *Gender-differential effects of intranasal oxytocin on resting-state anterior cingulate activity.* Poster presented at the Annual Meeting of the Organization for Human Brain Mapping, Vancouver, Canada.
- Horta, M., Lin, T., **Gulliford, D**., Cohen, R. A., Ebner, N. C. (April 2016). *Dynamic emotion identification: Effects of age and oxytocin.* Poster presented at the Meeting of the Social and Affective Neuroscience Society, New York City, NY, USA.
- Conner, L., Dalton, I., Horta, M., **Gulliford, D.**, Frazier, I., Ebner, N. C., Lighthall, N. (March 2017). *Information integration in economic value judgments: Shift from affective to deliberative decision network regions*. Poster presented at the Annual Meeting of the Society for Social and Affective Neuroscience, Los Angeles, CA, USA.

- Horta, M., Lin, T., **Gulliford, D.**, Ebner, N. C. (November 2015). *Dynamic emotion identification: Effects of age and oxytocin.* Poster presented at the Gerontological Society of America's 68th Annual Scientific Meeting, Orlando, FL, USA.
- *Welker, O. **Gulliford, D**., Aylward, E., Webb, S. (June 2015). *Amygdalar function in emotion processing in adolescent boys and girls.* Poster presented at the Undergraduate Research Symposium, University of Washington, Seattle, WA, USA.
- Jack, A., Keifer, C., Gulliford, D., Torgerson, C., Aylward, E., Bookheimer, S., Dapretto, M., Gaab, N., Van Horn, J., Pelphrey, K., GENDAAR Working Group (May 2015). Sex differences in biological motion perception among youth with ASD: an fMRI investigation. Poster presented at the International Meeting for Autism Research, Salt Lake City, UT, USA.
- Richards, T., Grabowski, T., Askren, K. Collins, E., Yagle, K., **Gulliford, D.**, Welker, O., Beringer, V. (March 2014) *Children with dyslexia/dysgraphia and DTI parameter correlations with reading/language scores*. Poster presented at the New Horizons in Human Brain Imaging conference, Oahu, HI, USA.
- Richards, T., Grabowski, T., Askren, K., Peter Boord, P., Yagle, K., Mestre, Z., Reitz, F., Welker, O., **Gulliford, D.**, Liza Young, L., Collins, E., Berninger, V. (November 2013) *Functional and structural connectivity across levels of language in children with dysgraphia*. Poster presented at Society for the Neurobiology of Language conference, San Diego, CA, USA.
- Richards, T., Grabowski, T., Askren, K. Collins, E., Yagle, K., **Gulliford, D.**, Welker, O., Beringer, V. (June 2013) *Children with dyslexia/dysgraphia and DTI parameter correlations with reading/language scores*. Poster presented at the Organization for Human Brain Mapping conference, Seattle, WA, USA.

INVITED TALKS AND LECTURES

2020	Resting-state functional MRI as an emergent biomarker in Alzheimer's Disease. Trainee panel on biomarkers, Canadian Consortium on Neurodegeneration in Aging (CCNA), Canada (virtual)
2018	Brain structure and oxytocin in pain and aging. Centre de recherche de l'Institut universitaire de gériatrie de Montréal, Université de Montréal, Montreal, QC, CA
2018	Brain structure in pain and aging. University of Florida, Language and Brain group, Gainesville, FL, USA
2018	Scripting with Unix Shell. University of Florida, Developmental Colloquium, Gainesville, FL, USA

2017, 2016	Socioemotional development in infancy. University of Florida, Developmental Psychology class, Gainesville, FL, USA
2014	Updates in Autism: New research and the DSM. Pierce College Fort Steilacoom, Abnormal Psychology class, Lakewood, WA, USA
2013	An introduction to neuroimaging. Pierce College Fort Steilacoom, Introduction to Psychology class, Lakewood, WA, USA
2013	Neuroimaging and developmental disorders. Pierce College Fort Steilacoom, Abnormal Psychology class, Lakewood, WA, USA
2013	Posttraumatic stress disorder in combat veterans: A review of treatment methods and experiment proposal. University of Washington Medical Center, IBIC Lab Meeting, Seattle, WA, US

WORKSHOPS

Co-organizer	
2020 Instructor	Brainhack School, Summer 2020, multiple universities, Montréal, QC, Canada
2019	Introduction to machine learning for neuroimaging. Traintrack workshop for Brainhack Global 2019, Concordia University Conference Centre, Montréal, QC, Canada
2019	Principal component analysis and pipelines with Sklearn. Part of the Machine learning educational workshop for Montreal Artificial Intelligence and Neuroscience conference, Mila: Quebec Al Institute, Montréal, QC, Canada
Participant 2018	
	Deep Learning in Neuroimaging and Beyond, Centre de recherche de l'Institut universitaire de gériatrie de Montréal, Université de Montréal, Montréal, QC, Canada (Dr Andrew Doyle, Dr Joseph Paul Cohen, Thomas Funck)
2018	The Virtual Brain: Node #7, Montréal Neurological Institute, McGill University, Montréal, QC, Canada
2017	Montreal Artificial Intelligence and Neuroscience: Machine Learning with NiLearn and Scikit, Centre de Recherches Mathématiques, Université de Montréal, Montréal, QC, Canada (Gaël Varoquaux)
2017	Montreal Artificial Intelligence and Neuroscience: Tensorflow for Deep

Learning in Neuroimaging, Centre de Recherches Mathématiques, Université de Montréal, Montréal, QC, Canada (Robb Brown)

2017 Reproducible Neuroimaging (Repronim) training, ReproNim: Center for

Reproducible Neuroimaging Computation, Washington, DC, USA

TEACHING EXPERIENCE

Teaching Assistant, Developmental Psychology, University of Florida, Spring 2016, 2017, (online) undergraduate course (Marina Klimenko) 2019: Fall 2017 Fall 2018 Instructor, General Psychology, University of Florida Teaching Assistant, *General Psychology*, University of Florida, (online) Spring 2018 undergraduate course (Nicole Dorey)

Teaching Assistant, *Developmental Psychology*, University of Florida, Fall 2015, 2016

undergraduate course (Natalie C. Ebner)

SERVICE

Committee Memberships

2020-Work Group Chair, Sponsor/Exhibitor/Brain Art Work Group, Technology Taskforce, Organization for Human Brain Mapping

2020-Art Exhibit Manager Elect, Brain Art Special Interest Group,

Organization for Human Brain Mapping

Ad-hoc Reviewer

2020 Reviewer, Neural Regeneration Research

2019 Organization for Human Brain Mapping annual meeting 2020

Frontiers in Neuroinformatics 2019

MENTORSHIP

Myers, Elisha, University of Florida, Psychology Undergraduate Thesis: Effects of Four-Week Intranasal Oxytocin Administration on Insula Volume and Levels of Empathy in Aging, Spring 2020. PI: Natalie C. Ebner. (Accepted to Florida Atlantic University College of Medicine)

Rachna Sannegowda, University of Florida, Biomedical Engineering Undergraduate Thesis: Cerebellar White Matter Volume and Clinical Pain in Older Individuals, Spring 2018. PI: Yenisel Cruz-Almeida. (Accepted to University of Central Florida College of Medicine)

Rita Hayes, University of Florida, Biology Undergraduate Thesis: *The effects of Long-Term Oxytocin Administration on the Cingulate Cortex of Older Adults*, Spring 2018. PI: Natalie C. Ebner. (Accepted to Technion Medical School)

PROFESSIONAL AFFILIATIONS

2018- Society for Neuroscience (SfN), student member

2018-2019 American Pain Society (APS), student/trainee member

2013- Organization for Human Brain Mapping (OHBM), junior/student

member

METHODS AND TECHNOLOGY

Neuroimaging Methods DTI, fMRI, sMRI, MRS

Programming Languages Unix shell (bash), R, Python, html, JavaScript

Neuroimaging/machine learning/deep learning libraries Dypac, Nilearn, Scikit-Learn, PyTorch, fMRIprep

Software

FSL, CONN, Freesurfer, RStudio, SPSS, Presentation, Eprime

Operating Systems Linux (Debian, Ubuntu), Windows