Thomas M. Morin

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EDUCATION

Boston University, 2017 – Present
PhD Candidate, Computational Neuroscience
Graduate Program in Neuroscience

Tufts University, 2013 – 2017
Bachelor of Science, *magna cum laude,* Thesis Honors
Cognitive & Brain Science, Computer Science
Senior Honors Thesis: *Optimizing fPET-FDG*

PUBLICATIONS

Morin, T.M., Ma, W., & Stern, C.E. Differential cortical contributions to continuous perceptual and discrete symbolic reasoning on a one-dimensional raven's progressive matrices task. (*in prep.*)

Morin, T.M., Chang, A.E., Ma, W., McGuire, J.T. & Stern, C.E. Dynamic network analysis demonstrates the formation of stable functional networks during rule learning. (*Accepted for Publication*).

Gilbert, T.M., Zurcher, N.R., Wu, C.J., Bhanot, A., Hightower, B.G., Kim, M., Albrecht, D.S., Wey, H.Y., Schroeder, F.A., Rodriguez-Thompson, A., **Morin, T.M.**, Hart, K.L., Pellegrini, A.M., Riley, M.M., Wang, C., Stufflebeam, S.M., Haggarty, S.J., Holt, D.J., Loggia, M.L., Perlis, R.H., Brown, H.E., Roffman, J.L., Hooker, J.M. (2019). PET neuroimaging reveals histone deacetylase dysregulation in schizophrenia. *The Journal of Clinical Investigation*. https://doi.org/10.1172/JCI123743

Strebl, M.G., Campbell, A., Zhao, W.N., Riley, M.M., Chindavong, P., **Morin, T.M.**, Haggarty, S.J., Wagner, F.F., Ritter, T., Hooker, J.M. (2017). HDAC6 Brain Mapping with [^{18}F]Bavarostat Enabled by a Ru-Mediated Deoxyfluorination. *ACS Central Science*. 3(9), 1006-1014 http:/dx.doi.org/ 10.1021/acscentsci.7b00274

Placzek, M.S., Zhao, W., Wey, H.Y., **Morin, T.M.**, & Hooker, J.M. (2015). PET neurochemical imaging modes. *Seminars in Nuclear Medicine*, 46(1), 20-27 http://dx.doi.org/10.1053/j.semnuclmed.2015.09.001

PRESENTATIONS

Morin, T.M. Cognitive Neuroscience of Reasoning, *Guest Lecturer, Neural Systems II: Cognition and Behavior (GRS NE 742) Course*. 2021. Boston University. Boston, MA.

Morin, T.M. Intro to Neuroimaging, *Guest Lecturer, Introduction to Cognitive & Brain Science (PSY 9) Course*. 2021. Tufts University. Medford, MA

Morin, T.M. Intro to fMRI, *Guest Lecturer, Introduction to Cognitive & Brain Science (PSY 9) Course*. 2020. Tufts University. Medford, MA

Morin, T.M. Frontoparietal Control Network Contributions to Abstract Reasoning. *Boston University Graduate Program for Neuroscience Annual Retreat*. 2019. Essex, MA

Morin, T.M. Intro to Brain Imaging. *Guest Lecturer, Introduction to Cognitive & Brain Science (PSY 9) Course.* 2018. Tufts University. Medford, MA.

Morin, T.M. Branching Out: What a Tree Can Teach You About Your Brain? *Out For Undergrad Engineering Conference*. 2016. Stanford University, Palo Alto, CA.

Morin, T.M. Creating a Computer Simulation Tool for PET Neuroimaging. *Tufts University Undergraduate Research and Scholarship Symposium*. 2016. Tufts University, Medford, MA.

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POSTERS

Morin, T.M., Ma, W., Chang, A.E., & Stern, C.E. *Dynamic functional connectivity during context-dependent rule learning*. Organization for Human Brain Mapping. 2020. (Online Meeting, Due to COVID-19)

Morin, T.M., Moore, K.N., & Stern, C.E. *An fMRI investigation of functional network connectivity during abstract reasoning*. Cognitive Neuroscience Society Annual Meeting. 2020. (Online Meeting, Due to COVID-19)

Morin, T.M., Chang, A.E., & Stern, C.E. *Cortical contributions to perceptual and symbolic reasoning using a one-dimensional raven's progressive matrices task.* Society for Neuroscience. 2019. Chicago, IL

Ma, W., **Morin, T.M.**, Chang, A.E., & Stern, C.E. *An fMRI investigation of medial prefrontal network dynamics during a context-dependent rule learning task.* Society for Neuroscience. 2019. Chicago, IL

Morin, T.M., Chang, A.E., & Stern, C.E. *An fMRI investigation of symbolic processing using a one-dimensional raven's progressive matrices task*. Henry I. Russek Student Achievement Day. 2019. Boston University, Boston, MA.

Cohen, J.E., **Morin, T.M.**, & Stern, C.E. *Theta oscillations at critical junctures of overlapping mazes*. Cognitive Neuroscience Society Annual Meeting. 2018. Boston, MA.

Morin, T.M. & Wey, H.Y. *Optimizing fPET-FDG*. Cognitive & Brain Science Senior Symposium. 2017. Tufts University, Medford, MA

HONORS AND AWARDS

2020	Third Prize, BU Grad. Prog. for Neuro. Interview Days Poster Session
2017	Honorable Mention, NSF Graduate Research Fellowship Program
2017	Joanne Mary Sullivan Prize, Tufts University Psychology Department
2017	Barton Term Scholar for Arts and Sciences, Tufts University
2016	SpaceX People's Choice Award, Out for Undergrad Engineering Conference
2016	Greg Ellenoff Internship Grant, Tufts University Career Center
2016	Psi Chi Honor Society, Tufts University Chapter
2013-2017	Dean's List, Tufts University (5 semesters)

TRAINING

MIT IMPACT Program
Fellow, Spring 2020

Department of Psychological & Brain Sciences, Boston University
Cognitive Neuroimaging Lab
PhD Student Researcher, August 2017 – Present
Mentor: Chantal Stern, DPhil

Department of Psychological & Brain Sciences, Boston University
Attention & Perception Neuroimaging Lab
Lab Rotation & Collaborating Student, November 2017 – August 2018
Mentor: David Somers, PhD

A. A. Martinos Center for Biomedical Imaging,
Massachusetts General Hospital, Harvard Medical School
Hooker Research Group
Research Intern, April 2015 - May 2017
Mentors: Hsiao-Ying Wey, PhD, and Jacob Hooker, PhD

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TRAINING (Continued)

Department of Psychology, Tufts University
Memory and Cognition Lab
Undergraduate Research Assistant, May 2014 - May 2015
Mentor: Richard Chechile, PhD

TEACHING EXPERIENCE

Introduction to Cognitive and Brain Science
Teaching Assistant, Spring 2017
Department of Psychology, Tufts University

American Sign Language I, II, and III
Tutor, Fall 2016
Academic Resource Center, Tufts University

ADDITIONAL EXPERIENCE

InGenius Prep | College Admissions Consulting
Graduate Coach, November 2020 - Present

Mentor 2.0, Big Brothers Big Sisters of Massachusetts Bay
Volunteer Mentor to a High School Student: August 2017 - August 2019

Tufts Psychology Society
Class of 2017 Representative, September 2015 - May 2017

SKILLS

Programming Languages

- "Fluent" in C, C++, R, Python, MATLAB, Shell Scripting
- Experience with HTML/CSS, Lisp

Neuroimaging Software

- FSL, Freesurfer, AFNI, PMOD, Mango

Key Concepts

- fMRI, PET, and EEG study design, data collection & analysis
- Machine learning and graph-based analysis of functional connectivity data
- Implementation of kinetic models for PET neuroimaging
- Collaboration with theorists to design/test computational models of cognition