

# Thomas M. Morin

www.tmMorin.com | tommorin@bu.edu

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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*

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**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. (*Under Review*).

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. (2018). 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 [<sup>18</sup>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>

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**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., Chant, 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
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<b>HONORS AND AWARDS</b>	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)

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## **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

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**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

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**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

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**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