

# Thomas M. Morin

www.tmMorin.com | tommorin@bu.edu

---

**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. (2021). Dynamic network analysis demonstrates the formation of stable functional networks during rule learning. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhab175>

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 [<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>

---

**PRESENTED ABSTRACTS** Liapis, S.S.P., **Morin, T.M.**, McGuire, J.T., & Stern, C.E. *The dimensionality of representational space calibrates to abstract reasoning complexity*. Organization for Human Brain Mapping. 2021. (Online Meeting, Due to COVID-19) [Poster]

**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) [Poster]

**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). [Poster]

**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. [Poster]

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. [Poster]

---

# Thomas M. Morin

www.tmMorin.com | tommorin@bu.edu

---

|  |  |
|--|--|
| <b>PRESENTED ABSTRACTS (Continued)</b> | <b>Morin, T.M.</b> <i>Frontoparietal Control Network Contributions to Abstract Reasoning</i> . Boston University Graduate Program for Neuroscience Annual Retreat. 2019. Essex, MA. [Presentation]   |
|  | <b>Morin, T.M.</b> , Chang, A.E., & Stern, C.E. <i>An fMRI investigation of symbolic processing using a one-dimensional raven's progressive matrices task</i> . Henry I. Russek Student Achievement Day. 2019. Boston University, Boston, MA. [Poster] |
|  | Cohen, J.E., <b>Morin, T.M.</b> , & Stern, C.E. <i>Theta oscillations at critical junctures of overlapping mazes</i> . Cognitive Neuroscience Society Annual Meeting. 2018. Boston, MA. [Poster]   |
|  | <b>Morin, T.M.</b> & Wey, H.Y. <i>Optimizing fPET-FDG</i> . Cognitive & Brain Science Senior Symposium. 2017. Tufts University, Medford, MA. [Poster]  |
|  | <b>Morin, T.M.</b> <i>Branching Out: What a Tree Can Teach You About Your Brain?</i> Out For Undergrad Engineering Conference. 2016. Stanford University, Palo Alto, CA. [Presentation]  |
|  | <b>Morin, T.M.</b> <i>Creating a Computer Simulation Tool for PET Neuroimaging</i> . Tufts University Undergraduate Research and Scholarship Symposium. 2016. Tufts University, Medford, MA. [Presentation]  |

---

|                          |           |  |
|--------------------------|-----------|--|
| <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)                            |

---

|                 |             |  |
|-----------------|-------------|--|
| <b>TRAINING</b> | Spring 2020 | <b>MIT IMPACT Program</b><br><i>Fellow</i>   |
|                 | 2017 –      | <b>Department of Psychological &amp; Brain Sciences, Boston University</b><br>Cognitive Neuroimaging Lab<br><i>PhD Student Researcher</i><br><i>Mentor:</i> Chantal Stern, DPhil   |
|                 | 2017 – 2018 | <b>Department of Psychological &amp; Brain Sciences, Boston University</b><br>Attention & Perception Neuroimaging Lab<br><i>Lab Rotation &amp; Collaborating PhD Student</i><br><i>Mentor:</i> David Somers, PhD             |
|                 | 2015 – 2017 | <b>A. A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School</b><br>Hooker Research Group<br><i>Research Intern</i><br><i>Mentors:</i> Hsiao-Ying Wey, PhD, and Jacob Hooker, PhD |
|                 | 2014 – 2015 | <b>Department of Psychology, Tufts University</b><br>Memory and Cognition Lab<br><i>Undergraduate Research Assistant, May 2014 - May 2015</i><br><i>Mentor:</i> Richard Chechile, PhD  |

---

# Thomas M. Morin

www.tmMorin.com | tommorin@bu.edu

---

|                 |                    |   |
|-----------------|--------------------|---|
| <b>TEACHING</b> | 2021               | <b>Guest Lecturer</b><br><i>Neural Systems II - Cognition and Behavior (NE 742):</i> Cognitive Neuroscience of Reasoning<br>Instructor: Chantal Stern, DPhil<br>Department of Psychological & Brain Sciences, Boston University |
|                 | 2018, 2020, & 2021 | <b>Guest Lecturer</b><br><i>Introduction to Cognitive and Brain Science (PSY 9):</i> Intro to Neuroimaging<br>Instructor: Aniruddh Patel, PhD<br>Department of Psychology, Tufts University                                     |
|                 | 2017               | <b>Teaching Assistant</b><br><i>Introduction to Cognitive and Brain Science (PSY 9)</i><br>Instructor: Aniruddh Patel, PhD<br>Department of Psychology, Tufts University  |
|                 | 2016               | <b>Tutor</b><br><i>American Sign Language I, II, and III</i><br>Academic Resource Center, Tufts University  |

---

|                   |             |   |
|-------------------|-------------|---|
| <b>MENTORSHIP</b> | 2020-2021   | Bliss Cui, <i>Boston University, Undergrad Neuroscience Student Org. Mentee</i> |
|                   | 2020-2021   | Jiahe Nu, <i>Boston University Academy, High School Senior Thesis Project</i>   |
|                   | 2019-2020   | Roberto Luis-Fuentes, <i>Boston University, BME Senior Thesis Project</i>       |
|                   | 2019-2020   | Vincent Chang, <i>Boston University, BME Senior Thesis Project</i>              |
|                   | Spring 2019 | Sheila Yee, <i>Boston University, Undergraduate Directed Study Student</i>      |
|                   | 2018-2020   | Weida Ma, <i>Boston University, Undergraduate RA, BME Senior Thesis Project</i> |
|                   | Summer 2018 | Neoreet Braha, <i>Boston University, Undergraduate Research Assistant</i>       |

---

|                              |   |
|------------------------------|---|
| <b>ADDITIONAL EXPERIENCE</b> | <b>InGenius Prep   College Admissions Consulting</b><br><i>Graduate Coach, November 2020 - Present</i>  |
|                              | <b>Mentor 2.0, Big Brothers Big Sisters of Massachusetts Bay</b><br><i>Volunteer Mentor to a High School Student: August 2017 - August 2019</i> |
|                              | <b>Tufts Psychology Society</b><br><i>Class of 2017 Representative, September 2015 - May 2017</i>   |

---

|               |  |
|---------------|--|
| <b>SKILLS</b> | <b>Programming Languages</b> <ul style="list-style-type: none"><li>• “Fluent” in R, Python, MATLAB, Shell Scripting, C, C++</li><li>• Experience with HTML/CSS, Lisp</li></ul> <b>Neuroimaging Software</b> <ul style="list-style-type: none"><li>• FSL, Freesurfer, AFNI, PMOD</li><li>• BIDS-compatible pipelines including fmripred and NiBetaSeries</li></ul> <b>Key Concepts</b> <ul style="list-style-type: none"><li>• Network science and graph-based analysis of functional connectivity data</li><li>• fMRI, PET, and EEG study design, data collection &amp; analysis</li><li>• Implementation of kinetic models for PET neuroimaging</li><li>• Collaboration with theorists to design/test computational models of cognition</li></ul> |
|---------------|--|