Francesca Morfini

Harvard Medical School and McLean Hospital Department of Psychiatry 115 Mill Street, Belmont, MA 02478 Citizenship: Italian

Residency: USA (Green Card holder)

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Education and Training

2025 - Present	Postdoctoral Research Fellow			
	Department of Psychiatry	Harvard Medical School		
	Center for Depression, Anxiety and Stress Research Advisor: Christian Webb	McLean Hospital		
2019 - 2025	Ph.D. in Psychology (Cognitive Neuroscience) Advisors: Susan Whitfield-Gabrieli, Randy P. Auerbach (Colu	Northeastern University, USA imbia University), Juliet Y. Davidow		
2014	M.S. in Psychology (Clinical) Advisor: Laura Bellodi	San Raffaele University, Italy		
2011	B.S. in Psychology and Neuroscience Advisor: Clelia DiSerio	San Raffaele University, Italy		

Research interests

Postdoctoral Research Fellow at McLean Hospital and Harvard Medical School. My research leverages machine learning and multimodal data to understand depression and anxiety in adolescence, with the goal of informing personalized interventions.

Licensure

2016 - Present Licensed Psychologist, Italy (License #18591)

Fellowships and awards

Center for Cognitive and Brain Health	Graduate Fellowship (1year)	2024-25
Society of Biological Psychiatry (SOBP)	Pre-Doc Travel Award	2024
Psychology Department Northeastern University	Travel Award	2020-2024
PhD Network Northeastern University	Travel Award	2020-2024
College of Science Northeastern University	Travel Award	2020-2024
International OCD Foundation Conference	Travel Award	2017
European Union ERASMUS Program	Scholarship	2010

Research experience

2019-2025 Ph.D. Graduate Student Researcher

Northeastern University, Boston, USA

Department of Psychology

Advisors: Susan Whitfield-Gabrieli, Ph.D. and Juliet Y. Davidow, Ph.D.

2018-19 **Visiting Scholar**

Harvard University, Cambridge, MA

Department of Psychology Mentor: Jill M. Hooley, Ph.D.

2016-18 Research Assistant

University of California, Los Angeles, CA

Semel Institute for Neuroscience and Human Behavior

Mentor: Jamie Feusner, M.D.

Clinical experience

07-08/2016 Clinical Trainee

Cognitive-Behavioral Therapy Training Program

Anxiety Disorders Clinic

University of California, Los Angeles, CA

Supervisor: Jamie Feusner, M.D.

05-07/2016 Clinical Trainee

Health Professional Observer Program

Ronald Reagan Hospital

University of California, Los Angeles, CA

Supervisor: Michael Strober, Ph.D.

2016 - Present Licensed Psychologist

Board of Psychologists of Lombardy, Italy

Licensing number: 18591

2014-15 **Post-Graduate Clinical Intern**

Center for Anxiety and Eating Disorders San Raffaele Hospital, Milan, Italy Supervisor: Laura Bellodi, M.D.

Publications

19 published manuscripts (14 peer-reviewed, 6 preprints) and 3 in preparation; Google Scholar h-index = 9.

[19] Morfini, F., Kucyi, A., Zhang, J., Bauer, C. C. C., Bloom, P. A., Pagliaccio, D., Hubbard, N., Rosso, I. M., Yendiki, A., Ghosh, S. S., Pizzagalli, D. A., Gabrieli, J. D., Whitfield-Gabrieli, S., Auerbach, R. P. (2025). Brain functional connectivity predicts depression and anxiety during childhood and adolescence: a connectome-based predictive modeling approach. *Imaging Neuroscience*, 3, https://doi.org/10.1162/IMAG.a.145

[18] Bauer, C. C. C., Zhang, J., <u>Morfini, F.</u>, Hinds, O., Wighton, P., Lee, Y., Stone, L. M. D., Awad, A. I., Okano, K., Hwang, M., Hammoud, J., Nestor, P., Whitfield-Gabrieli, S., Shinn, A. K., Niznikiewicz, M. A. (2025). Real-time fMRI neurofeedback modulates auditory cortex activity and connectivity in schizophrenia patients with auditory hallucinations: A controlled study. *Psychiatry Research: Neuroimaging*. 353, 112050. https://doi.org/10.1016/j.pscychresns.2025.112050

[18.1] † Preprint (*BioRxiv*): https://doi.org/10.1101/2025.01.13.632809

[†] denotes a non-peer reviewed preprint

^{*} denotes equal authorship

- [17] Zhang, J., Tusuzian, E., **Morfini, F.**, Bauer, C. C. C., Stone, L. M. D., Awad, A. I., Shinn, A., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (2025). Brain structural and functional neuroimaging features are associated with improved auditory hallucinations in patients with schizophrenia after real-time fMRI neurofeedback. *Depression and Anxiety*, 2025(1), 2848929. https://doi.org/10.1155/da/2848929
- [16] † Zhang, J., Bauer, C. C., Morfini, F., Lee, Y., Stone, L. M. D., Awad, A. I., Okano, K., Hwang, M., Shinn, A. K., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (2025). Real-time fMRI neurofeedback reduces default mode network and auditory cortex functional connectivity in schizophrenia. https://doi.org/10.1101/2025.01.02.631107
- [15] † Bloom, P. A., Pagliaccio, D., Bajwa, Z., Wool, E., Zhang, J., Bauer, C. C. C., Kyler, M., Greene, K. D., Treves, I., **Morfini, F.,** Durham, K., Kirshenbaum, J.S., Kim, N., Galfalvy, H., Simpson, B. H., Whitfield-Gabrieli, S., Auerbach, R. P. (2025). Impact of mindfulness-based real-time fMRI neurofeedback on self-referential processing in depressed adolescents: a dosing study. https://doi.org/10.31234/osf.io/dshcm
- [14] † Qu, Y. L., Chopra, S., Qu, S., Cocuzza, C. V., Labache, L., Bauer, C. C. C., **Morfini, F.**, Whitfield-Gabrieli, S., Slavich, G. M., Joormann, J., Holmes, A. J. (2025). Shared and unique lifetime stressor characteristics and network connectivity predict adolescent anxiety and depression. https://doi.org/10.1101/2024.10.25.620373
- [13] **Morfini, F.**, Bauer, C. C., Zhang, J., Whitfield-Gabrieli, S., Shinn, A. K., Niznikiewicz, M. A., (2024). Targeting the superior temporal gyrus with real-time fMRI neurofeedback: a pilot study of the indirect effects on self-referential processes in schizophrenia. *Schizophrenia Research*, *270*, 358-365. https://doi.org/10.1016/j.schres.2024.06.036
- [12] † Zhang, J., Bloom, P. A., Pagliaccio, D., Bauer, C. C. C., Greene, K. D., **Morfini, F.,** Treves, I., Durham, K., Cherner, R., Bajwa, Z., Wool, E., Kyler, M., Kim, N., Simpson, B. H., Auerbach, R. P., Whitfield-Gabrieli, S. (2024). Mindfulness-based real-time fMRI neurofeedback for depressed adolescents: a randomized controlled dosing trial. https://doi.org/10.31234/osf.io/sj236
- [11] Cline, T. L., **Morfini, F.**, Tinney, E. M., Makarewycz, E., Lloyd, K., Olafsson, V., Bauer, C. C. C., Kramer, A. F., Raine, L. B., Gabbard-Durnam, L. J., Whitfield-Gabrieli, S., Hillman, C. H. (2024). Resting-state functional connectivity change in frontoparietal and default mode networks after acute exercise in youth. *Brain Plasticity*. https://doi.org/10.3233/BPL-240003
- [10] Bloom, P. A., Pagliaccio, D., Zhang, J., Bauer, C. C. C., Kyler, M., Greene, K. D., Treves, I., **Morfini, F.,** Durham, K., Cherner, R., Bajwa, Z., Wool, E., Olfsson, V., Lee, R. F., Bidmead, F., Cardona, J., Kirshenbaum, J. S., Ghosh, S., Hinds, O., Wighton, P., Galfalvy, H., Simpson, H. B., Whitfield-Gabrieli, S., & Auerbach, R. P. (2023). Mindfulness-based real-time fMRI neurofeedback: a randomized controlled trial to optimize dosing for depressed adolescents. *BMC Psychiatry*. https://doi.org/10.1186/s12888-023-05223-8
- [9] † Bauer, C. C. C., Zhang, J., Raya, J., **Morfini, F.,** Pagliaccio, D., Yendiki, A., Auerbach, R. P., Niznikiewicz, M., A., Whitfield-Gabrieli, S. (2023). Rewiring neural circuits: meditation based neurofeedback and its neuroplastic effects on the pathological brain. *AIP Conference Proceedings* (Vol. 2947, No. 1). https://doi.org/10.1063/5.0161404
- [8] Morfini, F., Whitfield-Gabrieli, S. and Nieto-Castañón, A. (2023) Functional connectivity MRI quality control procedures in CONN. *Frontiers in Neuroscience*. 17:1092125. https://doi.org/10.3389/fnins.2023.1092125

- [7] Zhang, J., Raya, J., Morfini, F., Urban, Z., Pagliaccio, D., Yendiki, A., Auerbach, R. P., Bauer, C. C. C., Whitfield-Gabrieli, S. (2023). Reducing default mode network connectivity with mindfulness-based fMRI neurofeedback: a pilot study among adolescents with affective disorder history. *Molecular Psychiatry*, 1-9. https://doi.org/10.1038/s41380-023-02032-z
- [6] Moody, T. D., Morfini, F., Cheng, G. K., Sheen, C., Kerr, W. T., Strober, M., Feusner, J. D. (2020). Brain activation and connectivity in anorexia nervosa and body dysmorphic disorder when viewing bodies: relationships to clinical symptoms and perception of appearance. *Brain Imaging and Behavior*, 7(9). https://doi.org/10.1007/s11682-020-00323-5
- [5] Vaughn, D.A., Kerr, W. T., Moody, T. D., Cheng, G. K., **Morfini, F.**, Zhang, A., Leow, A. D., Strober, M., Cohen, M. S., Feusner, J. D. (2019). Differentiating weight-restored anorexia nervosa and body dysmorphic disorder using neuroimaging and psychometric markers. *PLOS ONE*, 14(5), p.e0213974. https://doi.org/10.1371/journal.pone.0213974
- [4] Reggente, N., Moody, T. D., **Morfini, F.**, Sheen, C., Rissman, J., O'Neill, J., Feusner, J. D. (2018). Multivariate resting-state functional connectivity predicts response to cognitive behavioral therapy in obsessive—compulsive disorder. *Proceedings of the National Academy of Sciences*,115(9), pp.2222–2227. https://doi.org/10.1073/pnas.1716686115
- [3] Rangaprakash, D., Bohon, C., Lawrence, K. E., Moody, T. D., Morfini, F., Khalsa, S. S., Strober, M., Feusner, J. D. (2018). Aberrant dynamic connectivity for fear processing in anorexia nervosa and body dysmorphic disorder. *Frontiers in Psychiatry*, 9. https://doi.org/10.3389/fpsyt.2018.00273
- [2] Moody, T. D., **Morfini, F.**, Cheng, G. K., Sheen, C., Tadayonnejad, R., Reggente, N., O'Neill, J., Feusner, J. D. (2017). Mechanisms of cognitive-behavioral therapy for obsessive-compulsive disorder involve robust and extensive increases in brain network connectivity. *Translational Psychiatry*, 7(9), p.e1230. https://doi.org/10.1038/tp.2017.192
- [1] Tadayonnejad, R., Deshpande, R., Ajilore, O., Moody, T. D., **Morfini, F.**, Ly, R., O'Neill, J., Feusner, J. D. (2017). Pregenual anterior cingulate dysfunction associated with depression in OCD: an integrated multimodal fMRI/1H MRS study. *Neuropsychopharmacology*, 43(5), pp.1146–1155. https://doi.org/10.1038/npp.2017.249

Thesis

Morfini, F. (2025). Neural Correlates of Future Depression and Anxiety in Adolescence (Doctoral dissertation, Northeastern University).

Manuscripts in preparation_____

- * denotes equal authorship
- <u>Morfini, F.</u>, Whitfield-Gabrieli, S., Davidow, J.Y., Auerbach, R. P. (*in preparation*). Neuro-cognitive maturation subtypes of depression and anxiety in adolescence.
- Zhang, J.*, Morfini, F.*, Lee, Y., Nieto-Castañón, A., Yendiki, A., Hubbard, N., Siless, V., Frosch, I., Goncalves, M., Lo, N., Hofmann, S. G., Auerbach, R. P., Pizzagalli, D. A., Gabrieli, J.

- D., Whitfield-Gabrieli, S. (*in preparation*). Multimodal Brain Connectomics Predict Longitudinal Symptom Change in Adolescent Depression.
- Mikolas, P., Pines, A. R., Zavaliangos-Petropulu, A., Morris, V., Al-Sharif, N., Lenzini, P., Makhoul, P., Akiki, T., **Morfini, F.**, Verhees, F. G., Ritter, P., Whitfield-Gabrieli, S., Sheline, Y. I., Bijsterbosch, J., Williams, L. M., Narr, K. L. (*in preparation*). Large language models assisted classification of symptom domains across anxious misery disorders.

Selected conference presentations (first author)

- [19] **Morfini, F.**, Kucyi, A., Zhang, J., Bauer, C.C.C., Bloom, P.A., Pagliaccio, D., Whitfield-Gabrieli, S., Auerbach, R.P. (2025). Brain Functional Connectivity Predicts Depression and Anxiety During Childhood and Adolescence: A Connectome-Based Predictive Modeling Approach. *Trends in Psychology Summit*.
- [18] <u>Morfini, F.</u>, Kucyi, A., Zhang, J., Bauer, C.C.C., Bloom, P.A., Pagliaccio, D., Whitfield-Gabrieli, S., Auerbach, R.P. (2025). Brain Functional Connectivity Predicts Depression and Anxiety During Childhood and Adolescence: A Connectome-Based Predictive Modeling Approach. *Cognitive Neuroscience Society*.
- [17] Morfini, F., Kucyi, A., Zhang, J., Bauer, C.C.C., Bloom, P.A., Pagliaccio, D., Whitfield-Gabrieli, S., Auerbach, R.P. (2025). Brain Functional Connectivity Predicts Depression and Anxiety During Childhood and Adolescence: A Connectome-Based Predictive Modeling Approach. *Society for Biological Psychiatry*.
- [16] Morfini, F., Kucyi, A., Zhang, J., Bauer, C.C.C., Bloom, P.A., Pagliaccio, D., Whitfield-Gabrieli, S., Auerbach, R.P. (2025). Brain Functional Connectivity Predicts Depression and Anxiety During Childhood and Adolescence: A Connectome-Based Predictive Modeling Approach. *Harvard Psychiatry Mysell Research Day*.
- [15] <u>Morfini, F.</u>, Auerbach, R. P., Kramer, A. F., Davidow, Y., Whitfield-Gabrieli, S. (2024). Neuro-correlates of depression and anxiety in adolescents. *Flux International Society for Developmental Cognitive Neuroscience*.
- [14] Morfini, F., Kucyi, A., Zhang, J., Bauer, C. C. C., Bloom, P.A., Pagliaccio, D., Auerbach, R. P., Whitfield-Gabrieli, S. (2023). Brain Functional Connectivity Predicts Depression and Anxiety During Childhood and Adolescence: A Connectome-based Predictive Modeling Approach. *Society of Biological Psychiatry*.
- [13] Morfini, F., Zhang, J., Bauer, C.C., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2022). Real-Time fMRI Neurofeedback from the Superior Temporal Gyrus Modulates Functional Connectivity Related to Self-Referential Processes in Schizophrenia. *Real-Time Functional Imaging and Neurofeedback Meeting*.
- [12] Morfini, F., Zhang, J., Bauer, C.C., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2022). Real-Time fMRI Neurofeedback from the Superior Temporal Gyrus Modulates Functional Connectivity Related to Self-Referential Processes in Schizophrenia. *International Consortium for Schizotypy Research*.
- [11] **Morfini, F.**, Zhang, J., Bauer, C.C., Shinn, A. K., Lee, Y., Awad, A. I., Stone, L. M. D., Northoff., G., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (2022). Real-Time fMRI Neurofeedback for Auditory Hallucinations in Schizophrenia Reduces Aberrant Auditory Cortex Activity and Connectivity with the Default Mode Network. *Harvard Psychiatry Mysell Research Day*.

- [10] <u>Morfini, F.</u>, Bauer, C. C. C., Zhang, J., Lee, Y., Raya, J., Awad, A. I., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2021). Real-time fMRI neurofeedback from the superior temporal gyrus modulates self-referential processes in schizophrenia. *Society of Biological Psychiatry*.
- [9] **Morfini, F.**, Bauer, C. C., Zhang, J., Lee, Y., Raya, J., Awad, A. I., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2021). Real-time fMRI neurofeedback from the superior temporal gyrus modulates self-referential processes in schizophrenia. *Harvard Psychiatry Mysell Research Day*.
- [8] **Morfini, F.**, Bauer, C. C. C., Zhang, J., Lee, Y., Raya, J., Awad, A. I., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2021). Real-time fMRI neurofeedback from the superior temporal gyrus modulates self-referential processes in schizophrenia. *Schizophrenia International Research Society*.
- [7] Morfini, F., Lee, Y., Hirshfeld-Becker, D., Cutting, L., Bunge, S., Biederman J., & Whitfield-Gabrieli, S., (2020). Association of Intrinsic Brain Architecture with Changes in Attentional and Mood Symptoms During Development. *Massachusetts General Hospital Clinical Research Day*.
- [6] Morfini, F., Zhang, J., Lee, Y., Nieto-Castañón, A., Hubbard, N., Siless, V., Goncalves, M., Frosch, I., Lo, N., Hofmann, S. G., Auerbach, R. P., Pizzagalli, D. A., Yendiki, A., Gabrieli, J. D., Whitfield-Gabrieli, S. (2020). Resting State Connectivity Associated with Changes in Anxiety Symptoms in Adolescence over One Year. *Research Innovation Scholarship Entrepreneurship*.
- [5] Morfini, F., Zhang, J., Lee, Y., Nieto-Castañón, A., Hubbard, N., Siless, V., Goncalves, M., Frosch, I., Lo, N., Hofmann, S. G., Auerbach, R. P., Pizzagalli, D. A., Yendiki, A., Gabrieli, J. D., Whitfield-Gabrieli, S. (2020). Resting State Connectivity Associated with Changes in Anxiety Symptoms in Adolescence over One Year. *Society of Biological Psychiatry*.
- [4] <u>Morfini, F.</u>, Greco, R., Naman, K., Feusner, J. D., Motivala, S. J. (2017). Cross-sectional and Longitudinal Relationships Between Poor Sleep and Symptom Severity in Obsessive-Compulsive Disorder. *UCLA Brain Research Institute*.
- [3] **Morfini, F.**, Moody, T. D., Cheng, G. K., Feusner, J. D. (2017). Brain Activation and Connectivity in Body Dysmorphic Disorder and Anorexia Nervosa when Viewing Bodies. *UCLA Brain Research Institute*.
- [2] <u>Morfini, F.</u>, Moody, T. D., Cheng, G. K., Strober, M., Feusner, J. D. (2017). Abnormal Brain Activation and Connectivity in Body Dysmorphic Disorder and Anorexia Nervosa When Viewing Bodies. *American College of Neuropsychopharmacology*.
- [1] **Morfini, F.**, Casero, F., Bassetti, E., Galimberti, E., Baud-Bovy, G., Tettamanti, A., Gatti, R. (2015). Body schema and body image in anorexia nervosa patients: action- oriented protocol. *European Congress of Psychology*.

Selected conference presentations (co-authored)

[26] Greene, K. D., Zhang, J., **Morfini,** F., Lee, Y. J., Castañón, A. N., Yendiki, A., Hubbard, N. A., Siless, V., Frosch, I., Goncalves, M., Lo, N., Hoffmann, S. G., Auerbach, R. P., Pizzagalli, D. A., Gabrieli, J. D., & Whitfield-Gabrieli, S. (2025). Functional connectivity between the anterior cingulate cortex and dorsolateral prefrontal cortex as a marker for depression in adolescents. *Society of Biological Psychiatry*.

- [25] Hennessy, R., <u>Morfini, F.</u>, Cohen, A. O., Casey, B. J., Galván, A., Shoham, D., Davidow, J. Y., (2024). Adolescent memory-driven value integration differs by valence. *Flux International Society for Developmental Cognitive Neuroscience*.
- [24] Cline, T. L., Watrous, J. N. H., Nwakamma, M., Tinney, E. M., McDonald, K. M., **Morfini, F.**, Raine, L. B., Gabbard-Durnam, L. J., Kramer, A. F., Whitfield-Gabrieli, S., Hillman, C. H. (2023). Acute Effects of a Single Bout of Exercise on Functional Brain Networks in Children. *Society for Prevention Research*.
- [23] Tusuzian, E., Firlie, B., Akoh, N., Zhang, J., Bauer, C. C., Morfini, F., Shinn, A. K., Niznikiewicz, M. A., Whitfield-Gabrieli, S., (2023). Cortical Thickness Predictors of Neurofeedback Success in Reducing Auditory Hallucinations in Schizophrenia. *Society of Biological Psychiatry*.
- [22] Tusuzian, E., Firlie, B., Akoh, N., Zhang, J., Bauer, C. C., Morfini, F., Shinn, A. K., Niznikiewicz, M. A., Whitfield-Gabrieli, S., (2023). Cortical Thickness Predictors of Neurofeedback Success in Reducing Auditory Hallucinations in Schizophrenia. *Research Innovation Scholarship Entrepreneurship*.
- [21] Bauer, C. C., Zhang, J., Morfini, F., Shinn, A., Stone, L. M. D., Awad, A. I., Quin, E., Andrikidis, E., Lee, Y., Nestor, P., Whitfield-Gabrieli, S. & Niznikiewicz, M. A. (2023). fMRI feedback reduces auditory hallucinations and regulates akin network activation and connectivity. *Organization for Human Brain Mapping*.
- [20] Cline, T. L., Watrous, J. N. H., Tinney, E. M., Nwakamma, M., McDonald, K. M., **Morfini, F.**, Raine, L. B., Gabbard-Durnam, L. J., Kramer, A. F., Whitfield-Gabrieli, S., Hillman, C. H. (2023). Multivariate Pattern Analysis of Functional Brain Network Connectivity after Acute-to-Vigorous Physical Activity in Children. *American College of Sports Medicine*.
- [19] Bauer, C.C., Zhang, Shaffer, C., Morfini, F., Niznikiewicz, M. A., Kucyi, A., Akoh, N., Whitfield-Gabrieli, S. (2022). Mindful or Mind Full? Ask Your Participants. *Real-Time Functional Imaging and Neurofeedback Meeting*.
- [18] Shaffer, C., Zhang, Raya, J., <u>Morfini, F.</u>, Auerbach, R. P., Bauer, C.C., Whitfield-Gabrieli, S. (2022). Baseline Connectivity of Key Self-Reference Nodes Predicts Real-Time Neurofeedback Performance in Adolescents with a History of Affective Disorders. *Real-Time Functional Imaging and Neurofeedback Meeting*.
- [17] Zhang, J., Morfini, F., Lee, Y., Stone, Awad, A. I., L. M. D., Shinn, A. K., Niznikiewicz, M. A., Urban, Z., Raya, J., Kim, M., Jones, R. J., Yendiki, A., Pagliaccio, D., Auerbach, R. P., Ghosh, S., Bauer, C.C., Whitfield-Gabrieli, S. (2022). Mindfulness-Based Real-Time fMRI Neurofeedback Targeting the Default Mode Network in *Schizophrenia* and Depression. *Real-Time Functional Imaging and Neurofeedback Meeting*.
- [16] Zhang, J., Morfini, F., Lee, Y., Stone, Awad, A. I., L. M. D., Shinn, A. K., Niznikiewicz, M. A., Urban, Z., Raya, J., Kim, M., Jones, R. J., Yendiki, A., Pagliaccio, D., Auerbach, R. P., Bauer, C.C., Whitfield-Gabrieli, S. (2022). Mindfulness-Based Real-Time fMRI Neurofeedback Targeting the Default Mode Network in Schizophrenia and Depression. *McGovern Institute Annual Symposium*.
- [15] Kucyi, A., <u>Morfini, F.</u>, Whitfield-Gabrieli, S. (2022). Connectome-based predictive modeling of spontaneous experiences during resting state fMRI. *Society of Biological Psychiatry*.

- [14] Shinn, A. K., Zhang, J., Bauer, C.C., <u>Morfini, F.</u>, Lee, Y., Awad, A. I., Stone, L. M. D., Northoff., G., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (2022). Real-Time fMRI Neurofeedback for Auditory Hallucinations in Schizophrenia Reduces Aberrant Auditory Cortex Activity and Connectivity with the Default Mode Network. *American College of Neuropsychopharmacology*.
- [13] Zhang, J., Bauer, C.C., Shinn, A. K., **Morfini, F.**, Lee, Y., Stone, L. M. D., Y., Awad, A. I., Northoff., G., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2021). Real-Time fMRI Neurofeedback for Auditory Hallucinations in Schizophrenia Reduces Aberrant Auditory Cortex Activity and Connectivity with the Default Mode Network. *American College of Neuropsychopharmacology*.
- [12] Zhang, J., Bauer, C.C., <u>Morfini, F.</u>, Lee, Y., Awad, A. I., Stone, L. M. D., Northoff., G., Shinn, A. K., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (2021). Baseline functional connectivity between default mode network and auditory cortex predicts improvement in auditory hallucination following real-time neurofeedback in schizophrenia. *Society of Biological Psychiatry*.
- [11] Lee, Y., Zhang, J., Morfini, F., Raya, J., Hubbard, N., Ghosh, S., Auerbach, R. P., Hofmann, S. G., Henin, A., Yendiki, A., Gabrieli, J. D., Whitfield-Gabrieli, S. (2021). Baseline functional connectivity predicts changes in attentional and mood symptoms in adolescents with depression and/or anxiety. *Society of Biological Psychiatry*.
- [10] Bauer, C. C., Zhang, J., Morfini, F., Lee, Y., Raya, J., Awad, A. I., Stone, L. M. D., Shinn, A. K., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (2021). Baseline functional connectivity between default mode network and auditory cortex predicts improvement in auditory hallucination following real-time neurofeedback in schizophrenia. *Society of Biological Psychiatry*.
- [9] Zhang, J., Morfini, F., Lee, Y., Nieto-Castañón, A., Yendiki, A., Hubbard, N., Siless, V., Frosch, I., Goncalves, M., Lo, N., Hofmann, S. G., Auerbach, R. P., Pizzagalli, D. A., Gabrieli, J. D., Whitfield-Gabrieli, S. (2020). Multimodal Brain Connectomics Predict Longitudinal Symptom Change in Adolescent Depression. *Society of Biological Psychiatry*.
- [8] Feusner, J. D., Deshpande, R., Bohon, C., Lawrence, K. E., Moody, T. D., <u>Morfini, F.</u>, Khalsa, S. S., Goldbeck, J., Strober, M., (2018). Aberrant fronto-limbic dynamic connectivity for fear processing in anorexia nervosa and body dysmorphic disorder. *Eating Disorders Research Society*.
- [7] Moody, T. D., Morfini, F., Deshpande, R., Ly, R., Sheen, C., Feusner, J. D. (2018). Visual Modulation of the Dorsal Visual Stream in Body Dysmorphic Disorder Using Short-Duration Visual Stimuli. *Society of Biological Psychiatry*.
- [6] Cheng, G. K., **Morfini, F.**, Moody, T. D., Feusner, J. D. (2017). Brain Activation and Connectivity in BDD and Anorexia Nervosa when Viewing Bodies. *International OCD Foundation*.
- [5] Tadayon-Nejad, R., Deshpande, R., Moody, T. D., **Morfini, F.**, Ly, R., O'Neill, J., Feusner, J. D. (2017). Biochemical-connectivity-psychological model of comorbid depression in OCD: an integrated fMRI/1H MRS study. *Society of Biological Psychiatry*.
- [4] Deshpande, R., Moody, T. D., Ly, R., Sheen, C., Potter, G., Cheng, G. K., **Morfini, F.**, Feusner, J. D. (2017). Dynamics of Visual Processing Abnormalities in Body Dysmorphic Disorder. *Society of Biological Psychiatry*.

- [3] Feusner, J. D., Reggente, N., Moody, T. D., **Morfini, F.**, Rissman, J., O'Neil, J. (2016). Prediction of response to cognitive-behavioral therapy in obsessive-compulsive disorder: a multivariate analysis of resting state functional connectivity. *UCLA Brain Research Institute*.
- [2] Feusner, J. D., Reggente, N., Moody, T. D., **Morfini, F.**, Rissman, J., O'Neil, J. (2016). Prediction of response to cognitive-behavioral therapy in obsessive-compulsive disorder: a multivariate analysis of resting state functional connectivity. *American College of Neuropsychopharmacology*.
- [1] Martoni, R.M., Rancoita, R., De Filippis, R., <u>Morfini, F.</u>, Cavallini, M.C., Galimberti, E., Bellodi, L. (2015). Risky decision strategies in Healthy Subjects and Obsessive-Compulsive Patients and their interaction with clinical variables. *European Congress of Psychology*.

Open science contributions

[Software Manual] Bauer, C. C. C., Zhang, J., Morfini, F., Kucyi, A., Raya, J., Urban, Z., Ghosh, S., Hinds, O., Auerbach, R. P., Pagliaccio, D., Whitfield-Gabrieli, S. (2022). Multivariate and Univariate Real-Time Functional Imaging (MURFI) User Manual. A manual for the installation and use of MURFI, a software package for real-time processing of functional brain images for neuroscience applications. https://doi.org/10.17504/protocols.io.b5afq2bn

Invited talks

2025 (June)	University of Rhode Island, Dr. Logan Lab, Kingston, RI, USA "Nowal correlates of future severity of appriety and depression in adolescence"
	"Neural correlates of future severity of anxiety and depression in adolescence"
2025 (Mar.)	McLean Hospital, Dr. Webb Lab, Boston, MA, USA
	"Neural correlates of future severity of anxiety and depression in adolescence"
2024 (Nov.)	Harvard University, Dr. Somerville Lab, Boston, MA, USA
` '	"Neural correlates of future severity of anxiety and depression in adolescence"
2024 (Nov.)	Northeastern University, Neuroscience Seminar Series, Boston, MA, USA
,	"Neural correlates of future severity of anxiety and depression in adolescence"
2024 (Nov.)	Columbia University, Dr. Auerbach Lab, New York, NY, USA
,	"Neural correlates of future severity of anxiety and depression in adolescence"
2024 (Oct.)	Massachusetts General Hospital, Dr. Choi Lab, Boston, MA, USA
` '	"Brain features associated with prospective severity of anxiety and depression in adolescence"
2022 (July)	Columbia University, Dr. Auerbach Lab, New York, NY, USA
	"Brain Functional Connectivity Predicts Anxiety and Depression in Children and
	Adolescents: A Machine-Learning Study of Independent Longitudinal Samples"
2021 (June)	Northeastern University, Research on AdoLescence group, Boston, MA, USA
, ,	"Multimodal Prediction of Depressive Symptom Improvement in Adolescence"
2021 (Mar.)	Northeastern University, Master's Convention, Boston, MA, USA
	"Understanding Depressive Symptoms Change in Adolescence"
	0 of 12

2021 (Feb		Northeastern University, Center for Cognitive and Brain Health, Boston, MA, USA "Understanding Depressive Symptoms Change Over Time in Adolescence"		
2020 (Ma	• /	Northeastern University, Boston Psychology Graduate Symposium, Boston, MA, USA "Resting-State Connectivity Associated with Changes in Anxiety Symptoms in Adolescence"		
2020 (Ma	"What N The impo	Northeastern University , Provost and Board of Directors (with advisor), Boston, MA, USA "What Northeastern should do next for PhD education and increase success in research. The importance of the matching process between Faculty Mentor and Ph.D. student" (Canceled due to COVID)		
2020 (Feb	*	Northeastern University, Research on AdoLescence group, Boston, MA, USA "Brain Connectomics Predict Longitudinal Symptom Change in Depression"		
2018 (No	"Abnorn	Harvard University, Dr. Hooley Lab, Cambridge, MA, USA "Abnormal Brain Activation and Connectivity in Anorexia Nervosa and Body Dysmorphic Disorder"		
Invited	lectures			
2024, 202	Function	I-MIT, Health Sciences and Technology Pro al Magnetic Resonance Imaging: Data Acqui s: Anastasia Yendiki, Jonathan Polimeni	•	
2023	Making	ation for Human Brain Mapping, Education Quality Control Part of Your Analysis: Learn Connal Connectivity MRI Quality Control Proce	ing with the FMI	RI Open QC Project
2021	MRI Use	stern University, Boston, MA, USA ers Group workshop series exation of BIDS-App on High Performance Co	omputing Clusters	s"
Teachi	ng experien	ce		
Teaching	assistant for int	ernational workshops (I), doctoral (PhD), and	d undergraduate (U) courses.
Institution	and Semester	<u>Title</u>	Course Level	<u>Professor</u>
Massachu	setts General H 2025 (Sept.)	ospital / Harvard Medical School Predictive Models in Neuroimaging	I	Nieto-Castañón
Martinos	Center / Massac	chusetts General Hospital / Harvard Medical	School Joint Prog	gram
	2022 (Oct.)	fMRI Connectivity Analysis with CONN	I	Nieto-Castañón
	2021 (Oct.)	fMRI Connectivity Analysis with CONN	I	Nieto-Castañón
	2021 (Mar.)	fMRI Connectivity Analysis with CONN	I	Nieto-Castañón
Northeast	ern University			
	2024 (Spring)	Laboratory in Cognition	U	Eidson
	2023 (Spring)	Graduate Quantitative Methods II	PhD	DeSteno
	2022 (F 11)	C(A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,	T T	г. 1

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Halko

Statistics in Psychological Research

Statistics in Psychological Research

2022 (Fall)

2022 (Spring)

2021 (Fall)	Statistics in Psychological Research	U	Halko
2020 (Fall)	Statistics in Psychological Research	U	Halko
2020 (Spring)	Laboratory in Cognition	U	Baker

Mentoring experience

<u>Semester</u>	<u>Name</u>	<u>Institution</u>	Subsequent Position
2021 - 2022	Tanushka Dewan	Northeastern University	Continued Undergraduate Studies
2021	Chelsea Ajunwa	MIT	PhD in Psychology, Northeastern University
2021	Arjun Valay	Northeastern University	Continued Undergraduate Studies
2021 - 2022	Emma Tusuzian	Northeastern University	Co-op Student, Northeastern University
2020	Kathryn Margiotta	Northeastern University	Co-op Student, McLean Hospital

Leadership and service_____

2025	Abstract Reviewer, Flux Society
2024	Editor, Application Statement Feedback Program (ASFP) for underrepresented communities
2021	Organizer and Founder (with Dr Davidow), MRI Group Seminars, Northeastern University
2019 - 2020	Organizer, Seminars for Center for Cognitive and Brain Health, Northeastern University
2020 - present	Mentor (2-3 students/semester), Graduate Mentoring Program, Northeastern University
2020 - present	Graduate Guide, Prospective PhD Interview Weekend, Northeastern University

Ad Hoc reviewer

- Translational Psychiatry
- Neuropsychopharmacology
- Imaging Neuroscience
- Frontiers in Psychology
- BMC Psychiatry
- Molecular Neurobiology
- Schizophrenia Research
- Brain Research
- Open Research Europe
- Journal of Psychopathology and Clinical Science (with advisor)
- Journal of Child Psychology and Psychiatry (with advisor)

Professional associations

American Psychological Association (APA)

Flux Society

Organization for Human Brain Mapping (OHBM)

Anxiety and Depression Association of America (ADAA)

Outreach

2024	Presenter at the high school lecture series at Northeastern University "Introductory demonstration on brain functional connectivity"
2022	Speaker for Grad School Mentoring Program at Northeastern University "Degree Programs in Psychology: PhD vs PsyD"
2020	Speaker for ABCT Think Tank on Neuroscience "How Clinicians Can Use Contemporary Neurocognitive Research in the Real World"
2011 - 2016	Fundraiser, Center for Research and Innovation in Neurological Disorders, Italy

Selected skills

Programming languages Python, MATLAB, R, Unix bash, HTML

Magnetic resonance imaging (MRI) Software: FSL, CONN Toolbox, SPM, BIDS-App, fMRIprep,

MRIQC, Murfi system for real-time fMRI neurofeedback,

BrainNetViewer; Python packages: nipype, nilearn, statsmodels,

pandas, ...

Electroencephalogram (EEG) HAPPE, MNE-Python

Statistics Machine learning: scikit-learn, multivariate pattern analysis

(MVPA), connectome-based predictive modelling (CPM);

Bayesian statistics: pyJags, pyStan; **Misc**: R, SPSS, python-packages (NumPy, SciPy, ...)

 $\textbf{Reproducible science} \quad \text{Git/Github, JupyterLab, Singularity, SLURM HPC systems}$

Stimuli preparation PsychoPy, PsychToolbox, Presentation NBS, E-Prime,

Image Magick, Fanta Morph, Image J

Laboratory Eye-tracking, BIOPAC, BIAS, CANTAB

Clinical Licensed clinical psychologist for: diagnostic interviews,

psychological and counseling support for individuals and groups,

neurocognitive testing, psychological testing

Languages

English: Fluent Spanish: Fluent Italian: Native

References

Available upon request