


# Francesca Morfini

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Northeastern University  
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 [fmorfini.github.io](https://github.com/fmorfini)

## Education

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2019 - Present	<b>Ph.D. in Psychology</b> (Cognitive Neuroscience) Advisors: Susan Whitfield-Gabrieli, Randy P. Auerbach, Juliet Y. Davidow	Northeastern University, USA
2014	<b>M.S. in Clinical Psychology</b> Advisor: Laura Bellodi	San Raffaele University, Italy
2011	<b>B.S. in Psychology and Neuroscience</b>	San Raffaele University, Italy

## Research interests

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- Anxiety, depression, and internalizing disorders
- Adolescence
- Neuroscience
- Real-time neurofeedback

## Licensure

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

## Fellowships and awards

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Center for Cognitive and Brain Health	Fellowship (1 year stipend and tuition)	2024/2025
Society of Biological Psychiatry (SOBP)	Travel Award, Pre-Doc	2024
Psychology Department Northeastern University	Travel Award	2020-2024
PhD Network Northeastern University	Travel Award	2020-2023
College of Science Northeastern University	Travel Award	2020, 2023
International OCD Foundation Conference	Scholarship Award	2017
European Union ERASMUS Program	Scholarship	2010

## Research experience

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2019-Present	<b>Graduate Student Researcher</b> Northeastern University, Boston, USA Department of Psychology Mentors: Susan Whitfield-Gabrieli, Ph.D. and Juliet Y. Davidow, Ph.D.
2018-19	<b>Visiting Scholar</b> Harvard University, Cambridge, MA Department of Psychology Mentor: Jill M. Hooley, Ph.D.
2016-18	<b>Research Assistant</b>

University of California, Los Angeles, CA  
Semel Institute for Neuroscience and Human Behavior  
Mentor: Jamie Feusner, M.D.

## Clinical experience

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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.

## Published manuscripts

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[13] **Morfini, F.**, Bauer, C.C.C., Zhang, J., Whitfield-Gabrieli, S., Shinn<sup>§</sup>, A.K., Niznikiewicz<sup>§</sup>, 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.<sup>†</sup>, Bloom, P. A.<sup>†</sup>, 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. <sup>§</sup>, Whitfield-Gabrieli, S. <sup>§</sup> (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., Sheen, C.L., Kerr, W.T., Strober, M. and 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.A., Cohen, M.S. and 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. and 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., **Morfini, F.**, Khalsa, S.S., Strober, M. and 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., Sheen, C., Tadayonnejad, R., Reggente, N., O'Neill, J. and 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., **Morfini, F.**, Ly, R., O'Neill, J. and 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>

## Manuscripts submitted

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**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. (*in revision*). Brain functional connectivity predicts depression and anxiety during childhood and adolescence: a connectome-based predictive modeling approach.

## Manuscripts in preparation

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**Morfini, F.**, 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.J., 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.

Zhang, J., Bauer, C.C.C., **Morfini, F.**, Lee, Y., Stone, L. M. D., Awad, A. I., Okano, K., Hwang, M., Shinn, A., Niznikiewicz, M. A., Whitfield-Gabrieli, S. (*in preparation*). Mindfulness-based fMRI neurofeedback reduces default mode network and auditory cortex functional connectivity in schizophrenia.

Bauer, C.C.C., Zhang, J., **Morfini, F.**, Shinn, A., Stone, L. M. D., Awad, A. I., Quin, E., Andrikidis, E., Ajunwa, C., Green K., Lee, Y., Nestor, P., Whitfield-Gabrieli, S., Niznikiewicz, M. A. (*in preparation*). Neurofeedback Reduces Auditory Hallucinations and Modulates Associated Brain Activity and Connectivity.

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. (*in preparation*). Investigating the Impact of Mindfulness-based Real-time fMRI Neurofeedback on Self-Referential Processing in Depressed Adolescents.

## Selected conference presentations (first author)

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[15] **Morfini, F.**, Auerbach, R.P., Kramer, A. F., Davidow, Y.<sup>§</sup>, Whitfield-Gabrieli, S.<sup>§</sup> (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 Research Day Poster Session and Mysell Lecture*.

- [10] **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. *Society of Biological Psychiatry*.
- [9] **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. *Harvard Psychiatry Research Day Poster Session and Mysell Lecture*.
- [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.J., 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.J., 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.J., 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] **Morfini, F.**, 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., 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] **Morfini, F.**, Moody, T., 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)

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- [24] Cline, T. L., Watrous, J. N. H., Nwakamma, M., Tinney, E. M., McDonald, K. M., **Morfini, F.**, Raine, L., Gabbard-Durnam, L., 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.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.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.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., Gabbard-Durnam, L., 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., **Morfini, F.**, 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., **Morfini, F.**, 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., **Morfini, F.**, 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, 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., **Morfini, F.**, 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.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.J., 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., Moody, T., **Morfini, F.**, Khalsa, 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., **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., 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., **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., 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., **Morfini, F.**, 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

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[**Software Manual**] 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.

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). <https://doi.org/10.17504/protocols.io.b5afq2bn>

## Invited talks

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- 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 (NURAL), Boston, USA  
*"Multimodal Prediction of Depressive Symptom Improvement in Adolescence"*
- 2021 (Mar) **Northeastern University**, Master's Convention, Boston, USA  
*"Understanding Depressive Symptoms Change in Adolescence"*
- 2021 (Feb) **Northeastern University**, Center for Cognitive and Brain Health, Boston, USA  
*"Understanding Depressive Symptoms Change Over Time in Adolescence"*
- 2020 (May) **Northeastern University**, Boston Psychology Graduate Symposium, Boston, USA  
*"Resting-State Connectivity Associated with Changes in Anxiety Symptoms in Adolescence"*
- 2020 (Mar) **Northeastern University**, Provost and Board of Directors (with advisor), Boston, 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"*
- 2020 (Feb) **Northeastern University**, Research on AdoLescence (NURAL), Boston, USA  
*"Brain Connectomics Predict Longitudinal Symptom Change in Depression"*
- 2018 (Nov) **Harvard University**, Dr. Hooley Lab, Cambridge, MA, USA  
*"Abnormal Brain Activation and Connectivity in Anorexia Nervosa and Body Dysmorphic"*

## Teaching experience

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(TA, teaching assistant. Course levels: G, graduate PhD; I, international all levels; U, undergraduate)

<u>Semester</u>	<u>Role</u>	<u>Institution</u>	<u>Course Level and Title</u>	<u>Professor</u>
2024 (Spring)	TA	Northeastern University	U Laboratory in Cognition	Eidson
2023 (Spring)	TA	Northeastern University	G Graduate Quantitative Methods II	DeSteno
2022 (Fall)	TA	MGH/Martinos/Harvard	I fMRI Connectivity Analysis with CONN	Nieto-Castañón
2022 (Fall)	TA	Northeastern University	U Statistics in Psychological Research	Eidson



2022 (Spring)	TA	Northeastern University	U	Statistics in Psychological Research	Halko
2021 (Fall)	TA	MGH/Martinos/Harvard	I	fMRI Connectivity Analysis with CONN	Nieto-Castañón
2021 (Fall)	TA	Northeastern University	U	Statistics in Psychological Research	Halko
2021 (Spring)	TA	MGH/Martinos/Harvard	I	fMRI Connectivity Analysis with CONN	Nieto-Castañón
2020 (Fall)	TA	Northeastern University	U	Statistics in Psychological Research	Halko
2020 (Spring)	TA	Northeastern University	U	Laboratory in Cognition	Baker

## Invited lectures

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2024 (Nov)	<b>Harvard -MIT</b> , Health Sciences and Technology Program, Boston, USA Functional Magnetic Resonance Imaging: Data Acquisition and Analysis <i>"Seed Based Functional Connectivity Analyses"</i> Directors: Anastasia Yendiki, Jonathan Polimeni				
2024 (Oct)	<b>Harvard -MIT</b> , Health Sciences and Technology Program, Boston, USA Functional Magnetic Resonance Imaging: Data Acquisition and Analysis <i>"Quality Control for fMRI data"</i> Directors: Anastasia Yendiki, Jonathan Polimeni				
2023 (July)	<b>Organization for Human Brain Mapping</b> , Educational Course, Montreal, Canada Making Quality Control Part of Your Analysis: Learning with the FMRI Open QC Project <i>"Functional Connectivity MRI Quality Control Procedures in CONN"</i>				
2022 (Nov)	<b>Harvard -MIT</b> Health Sciences and Technology Program, Boston, USA Functional Magnetic Resonance Imaging: Data Acquisition and Analysis <i>"Quality Control for fMRI data"</i> Directors: Anastasia Yendiki, Jonathan Polimeni				
2022 (Oct)	<b>Harvard -MIT</b> , Health Sciences and Technology Program, Boston, USA Functional Magnetic Resonance Imaging: Data Acquisition and Analysis <i>"Seed Based Functional Connectivity Analyses"</i> Directors: Anastasia Yendiki, Jonathan Polimeni				
2021 (Aug)	<b>Northeastern University</b> , Boston, USA MRI Users Group workshop series  <i>"Optimization of BIDS-App on High Performance Computing Clusters"</i>				

## Mentoring experience

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

## Leadership and service

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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

- Imaging Neuroscience
- Frontiers in Psychology
- Brain Research
- Journal of Psychopathology and Clinical Science (with advisor)
- Journal of Child Psychology and Psychiatry (with advisor)

### Professional associations

Flux Society  
 Organization for Human Brain Mapping (OHBM)  
 Anxiety and Depression Association of America (ADAA)

## Outreach

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2024 **Presenter at 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 Scientific Research and Technological Innovation in Neurological Disorders, Italy

## Selected skills

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<b>Programming languages</b>	Python, MATLAB, R, Unix bash, HTML
<b>Magnetic resonance imaging (MRI)</b>	<b>Softwares:</b> FSL, CONN Toolbox, SPM, BIDS-App, fMRIPrep, MRIQC, Murfi system for real-time fMRI neurofeedback, BrainNetViewer; <b>Python packages:</b> nipy, nilearn, statsmodels, pandas, ...
<b>Electroencephalogram (EEG)</b>	HAPPE, MNE-Python
<b>Statistics</b>	<b>Machine learning:</b> scikit-learn, multivariate pattern analysis (MVPA), connectome-based predictive modelling (CPM); <b>Bayesian statistics:</b> pyJags, pyStan; <b>Misc:</b> R, SPSS, python-packages (NumPy, SciPy, ...)
<b>Reproducible science</b>	Git/Github, JupyterLab, Singularity, SLURM HPC systems
<b>Stimuli preparation</b>	PsychoPy, PsychToolbox, Presentation NBS, E-Prime, ImageMagick, FantaMorph, ImageJ
<b>Laboratory</b>	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**

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**English:** Proficient  
**Spanish:** Proficient  
**Italian:** Native speaker

**References**

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Available upon request.