Francesca Morfini

Northeastern University
Center for Cognitive and Brain Health
Department of Psychology
Boston, MA, USA

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Education

2019 - Present	**Ph.D. in Psychology**	Northeastern University, USA
2014	**M.S. in Clinical Psychology** Advisor: Laura Bellodi, M.D.	San Raffaele University, Italy
2011	**B.S. in Psychology and Neuroscience**	San Raffaele University, Italy

Licensure

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

Honors and awards

Center for Cognitive and Brain Health	Graduate Fellowship (stipend, tuition, benefits)	2024/2025
Society of Biological Psychiatry (SOBP)	Travel Award, Pre-Doctoral	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 (EU) ERASMUS Program	Scholarship	2010

Research experience

2019-Present **Graduate Student Researcher**
Northeastern University, Boston, MA
Department of Psychology
Advisor: Susan Whitfield-Gabrieli, Ph.D. and Juliet J. Davidow, Ph.D.

2018-19 **Visiting Scholar**
Harvard University, Cambridge, MA
Department of Psychology
Advisor: Jill M. Hooley, Ph.D.

2016-18 **Research Assistant**
University of California, Los Angeles, CA
Semel Institute for Neuroscience and Human Behavior
Advisor: 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.

Peer-reviewed publications

Google Scholar h-index = 8 (as of July 2024)
[§]co-last author

[13] **Morfini, F.**, Bauer, C.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., 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*, [online] 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*, [online] 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 _____

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

Manuscripts in preparation _____

Morfini, F., Whitfield-Gabrieli, S., Auerbach, R.P. (*in preparation*). Clustering paper. 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.

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) _____

[15] **Morfini, F.**, 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 (FLUX)*.

[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 (SOBP)*.

[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 (rtFIN).*

[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 (ICSR)*.

[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 (MYSell)*.

[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 (SOBP)*.

[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 (MYSell)*.

[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 (SIRS)*.

[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 (MGH).*

[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 (RISE).*

[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 (SOBP)*.

[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 (BRI)*.

[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 (BRI)*.

[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 (ACNP)*.

[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 (ECP)*.

Selected conference presentations (co-authored) _____

[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 (SRP)

[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 (SOBP)*.

[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 (RISE).*

[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 (OHBM).*

[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 (ACSM).*

[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 (rtFIN).*

[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 (rtFIN).*

[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 (rtFIN).*

[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 (SOBP)*.

[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 (ACNP)*.

[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 (ACNP)*.

[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 (SOBP)*.

[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 (SOBP)*.

[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 (SOBP)*.

[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 (SOBP)*.

[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 (EDRS)*.

[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 (SOBP)*.

[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 (IOCDF)*.

[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 (SOBP)*.

[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 (SOBP)*.

[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 (BRI)*.

[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 (ACNP)*.

[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 (ECP)*.

Open science contributions

[**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

2022 (July) Dr. Auerbach Lab, **Columbia University**, 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) DataBlitz, Boston, MA, USA
"Multimodal Prediction of Depressive Symptom Improvement in Adolescence"

2021 (Mar) Master's Convention, **Northeastern University**, Boston, MA, USA
"Understanding Depressive Symptoms Change in Adolescence"

2021 (Feb) Center for Cognitive and Brain Health, **Northeastern University**, Boston, MA, USA
"Understanding Depressive Symptoms Change Over Time in Adolescence"

2020 (May) Boston Area Psychology Graduate Symposium, **Northeastern University**, Boston, MA, USA
"*Resting-State Connectivity Associated with Changes in Anxiety Symptoms in Adolescence*"

2020 (Mar) Provost and Board of Directors (with advisor), **Northeastern University**, 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 PhD student"

2020 (Feb) **Northeastern University** Research on AdoLescence (NURAL) DataBlitz, Boston, MA, USA

"Brain Connectomics Predict Longitudinal Symptom Change in Depression"

2018 (Nov) Dr Hooley Lab, **Harvard University**, Cambridge, MA, USA
"Abnormal Brain Activation and Connectivity in Anorexia Nervosa and Body Dysmorphic When Viewing Images of Bodies"

Invited lectures

2023 (July) *"Functional Connectivity MRI Quality Control Procedures in CONN"*
Part of "*Making Quality Control Part of Your Analysis: Learning with the FMRI Open QC Project*"
Organization for Human Brain Mapping (OHBM), Educational Course, Montreal, Canada

2022 (Nov) **Quality Control for fMRI data**
Harvard -MIT Health Sciences and Technology Program, Boston, MA
Instructors: Anastasia Yendiki, Jonathan Polimeni

2022 (Oct) **Seed Based Functional Connectivity Analyses**
Harvard -MIT Health Sciences and Technology Program, Boston, MA
Instructors: Anastasia Yendiki, Jonathan Polimeni

2021 (Aug) Workshop: *"Optimization of BIDS-App on High Performance Computing Clusters"*
MRI Users Group at Northeastern University
Northeastern University, Boston, MA, USA

Teaching experience

(G, graduate level for PhD students; I, international courses open to all levels; TA, teaching assistant; U, undergraduate level courses)

Semester	Role	Institution	Course Level and Title	Professor
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 Center/Harvard	I CONN for fMRI Connectivity Analysis	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 Center/Harvard	I CONN for fMRI Connectivity Analysis	Nieto-Castañón
2021 (Fall)	TA	Northeastern University	U Statistics in Psychological Research	Halko
2021 (Spring)	TA	MGH Martinos Center/Harvard	I CONN for fMRI Connectivity Analysis	Nieto-Castañón
2020 (Fall)	TA	Northeastern University	U Statistics in Psychological Research	Halko
2020 (Spring)	TA	Northeastern University	U Laboratory in Cognition	Baker

Mentoring experience

Semester	Name	Institution	Subsequent Position
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

2021 **Organizer** and **Founder** (with Dr Davidow), MRI Group Seminar Serie, Northeastern University
2019 - 2020 **Organizer**, Seminar Series for Center for Cognitive and Brain Health, Northeastern University
2020 - present **Mentor** (2-3 students/semester), Graduate School Mentoring Program, Northeastern University
2020 - present **Graduate Guide**, Prospective PhD Interview Weekend, Northeastern University

Ad Hoc reviewer

- Imaging Neuroscience
- Frontiers in Psychology
- 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

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

Programming languages	Python, MATLAB, R, Unix bash
Magnetic resonance imaging (MRI)	**Softwares**: FSL, CONN Toolbox, SPM, BIDS-App, fMRIprep, MRIQC, Murfi system for real-time fMRI neurofeedback, BrainNetViewer; **Python packages**: nipype, nilearn, statsmodels, pandas, etc.
Electroencephalogram (EEG)	HAPPE, MNE-Python
Stimuli preparation and presentation	PsychoPy, PsychToolbox, Presentation NBS, E-Prime, ImageMagick, FantaMorph, ImageJ
Laboratory	Eye-tracking, BIOPAC, BIAS, CANTAB
Reproducible science	Git/Github, JupyterLab, Singularity, SLURM HPC systems
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, etc.)
Clinical	Licensed clinical psychologist for: diagnostic interviews, psychological and counseling support for individuals and groups, neurocognitive testing, psychological testing

Languages

English: Proficient
Spanish: Proficient
Italian: Native speaker

References

Available upon request