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
Committee (alphabetical): Randy P. Auerbach (advisor), Juliet J. Davidow, Arthur F. Kramer, Aaron Kucyi, Ajay Satpute, Susan Whitfield-Gabrieli (advisor)

2014 **M.S. in Clinical Psychology** San Raffaele University, Italy
Advisor: Laura Bellodi, M.D.

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	Interdisciplinary Graduate Fellowship	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

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.

Manuscripts in Progress

*co-first author; §co-last author

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.

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.

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

Conference Presentations (First Author) _____

[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)*.

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

Teaching Experience

Teaching Assistant

(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

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

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

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

Outreach _____

2022 **Speaker** for **Grad School Mentoring Program**
"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 - 2019 **Fundraiser** for *Slanciamoci,* **NPO** for Amyotrophic Lateral Sclerosis Research, Italy

Selected Skills

Programming Languages	Python, MATLAB, R, Unix bash
Magnetic Resonance Imaging (MRI)	**Softwares**: CONN Toolbox, FSL, SPM, BIDS-App, Murfi system for real-time fMRI neurofeedback, BrainNetViewer, fMRIprep, MRIQC; **Python Packages**: nipype, nilearn, pandas, other nypy packages
Electroencephalogram (EEG)	HAPPE (Matlab), MNE-Python
Stimuli Preparation and Presentation	PsychoPy (Python), PsychToolbox (Matlab), Presentation NBS, E-Prime, ImageMagick, FantaMorph, ImageJ
Laboratory	Eye-tracking, BIOPAC, BIAS, CANTAB
Reproducible Science	Git/Github, Jupyter Lab, 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, pandas, etc.)
Clinical	Licensed clinical psychologist for: diagnostic interviews, psychological and counseling support for individuals and groups, neurocognitive testing, psychological testing

Society Memberships

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

Languages

English: Proficient
Spanish: Proficient
Italian: Native speaker

References

Available upon request