

CURRICULUM VITAE  
**Jocelyn A. Ricard**  
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## EDUCATION

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<b>Stanford University</b> Knight-Hennessy Scholar, School of Medicine Incoming Ph.D. Student in Neuroscience	2023 –
<b>University of Minnesota, Twin Cities</b> College of Biological Sciences B.S. in Neuroscience	2016 – 2020
University of Cape Town, Solidarity & Community-Led Transformation in South Africa Cape Town, South Africa	2019 – 2020
University of Ghana, Legon, Social Entrepreneurship and Diplomacy in Ghana Accra, Kumasi, and Cape Coast, Ghana	2018 – 2019
Nansen Dijalog Centar, Young Voices: The Fight for Social Change in Croatia Zagreb, Osijek, Rijeka, Croatia	2018 – 2018
Vivekananda Institute of Indian Studies, Health & Medicine in a Social & Cultural Context Mysore, India	2017 – 2018
International Sustainable Development Studies Institute, International Development in Thailand Chiang Mai, Thailand	2017 – 2017

## RESEARCH INTERESTS

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Interested in understanding implications and vulnerabilities that lead to the severity of substance use disorders in minoritized communities

## PEER-REVIEWED PUBLICATIONS

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Dhamala E., Ooi L., Chen J., **Ricard J. A.**, Berkeley E., Chopra S., Qu Y., Lawhead C., Yeo B.T.T., Holmes, A. J. (In Press) Brain-based predictions of psychiatric illness-linked behaviors across sexes. *Biological Psychiatry*. (preprint: [bioRxiv 520947](https://doi.org/10.1101/2023.05.10.520947)).

\***Ricard J. A.**, \*Parker T. C., Dhamala E., Kwasa J., Allsop A., Holmes, A. J. (2023). Confronting racist and exclusionary practices in the acquisition and analyses of neuroimaging data. *Nature Neuroscience*, 26, 4–11. PMID: 36564545, DOI: 10.1038/s41593-022-01218-y \*Indicates co-first authorship

Jones G., **Ricard J. A.**, Hendricks P. Simonsson O. (2022). Associations between MDMA/ecstasy use and physical health in a U.S. population-based survey sample. *Journal of Psychopharmacology*, 36(10):1129-1135. PMID: 36189781, DOI: 10.1177/02698811221127318

\*Parker T. C. & **\*Ricard J. A.** (2022). Structural racism in neuroimaging: perspectives and solutions. *The Lancet Psychiatry*, 9(5), e22. PMID: 35430005, DOI: 10.1016/S2215-0366(22)00079-7 \*Indicates co-first authorship

Jones G., **Ricard J. A.**, Lipson J., & Nock M. K. (2022). Associations between classic psychedelics and opioid use disorder in a nationally representative US adult sample. *Scientific Reports*, 12(1), 1-8. PMID: 35393455, DOI: 10.1038/s41598-022-08085-4

Williams J. R., Meyer R. M., **Ricard J. A.**, Sen R., Young C. C., Feroze A. H., Greil M. E., Barros G., Durfy S., Hanak B., Morton R. P., Temkin N. R., Barber J.K., Mac Donald C. L., & Chesnut R. M. (2021). Re-examining decompressive craniectomy medial margin distance from midline as a metric for calculating the risk of post-traumatic hydrocephalus. *Journal of Clinical Neuroscience*, 87, 125-131. PMID: 33863519, DOI: 10.1016/j.jocn.2021.02.025

**Ricard J. A.**, Charles R., Tommee C. G., Yohe S., Bell W. R., & Flanagan M. E. (2020). Epstein virus Barr-positive diffuse large B-Cell lymphoma associated with hemophagocytic lymphohistiocytosis. *Journal of Neuropathology & Experimental Neurology*, 79(8), 915-920. PMID: 32647871, DOI: 10.1093/jnen/nlaa061

**Ricard J. A.**, Cramer S. W., Charles R., Tommee C. G., Le A., Bell W. R., Chen C. C., & Flanagan M. E. (2019). Infratentorial glioblastoma metastasis to bone. *World Neurosurgery*, 131, 90-94. PMID: 31356980, DOI: 10.1016/j.wneu.2019.07.142

## MANUSCRIPTS IN-PREPERATION

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Chopra S., Dhamala E., Lawhead C., **Ricard J. A.**, Orchard E. R., An L., Chen P., Wulan N., Kumar P., Rubenstein A., Moses J., Chen L., Levi P., Holmes A., Aquino K., Fornito A., Harpaz-Rotem I., Germine L. T., Baker J. T., Yeo B. T. T., Holmes A. J. (under review). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. (preprint: *medRxiv* 22283232).

Jones G., **Ricard J. A.**, Nock M. K. (under review). Race and ethnicity moderate the associations between lifetime psilocybin use and past-year hypertension in a population-based survey sample of U.S. adults.

Orchard E. R., Funaro M. C., Guan K., Wall K. M., Yatziv T., Hart-Derrick V., Parker T.C., Levy J., Shin R., **Ricard J. A.**, Casey B., Penner F., Rutherford H. (in preparation). Investigating racial and ethnic diversity in MRI studies of the maternal brain: a scoping review protocol.

## INVITED RESEARCH TALKS

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Institute of Neurobiology, Universidad Nacional Autónoma de México, Juriquilla. Querétaro, Mexico.  
Functional connectomics of cocaine use disorder (2022, December).

2022

## CONFERENCE TALKS

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Dhamala E., Ooi L. Q. R., Chen J., **Ricard J. A.**, Berkeley E., Chopra S., Qu Y., Lawhead C., Yeo B. T. T., Holmes A. J. (To be presented 2023, July). Shared functional connections predict distinct psychiatric illness-linked behaviors across the sexes. Organization for Human Brain Mapping, Montreal, Canada.

**Ricard J. A.**, Labache L., Chopra S., Dhamala E., Jones G., Harnett N. G., Yip S. W., Holmes A. J. (2023, April). The neural underpinnings of cocaine use disorder, Society for Biological Psychiatry, San Diego, California.

Chopra S., Dhamala E., Lawhead C., **Ricard J. A.**, Orchard E., Gillis B., Blankenbaker C., An L., Wulan N., Chen P., Kumar P., Rubenstein A., Moses J., Chen L., Levi P., Holmes A., Aquino K., Fornito, A., Harpaz-Rotem I., Germine L. T., Baker J. T., Yeo B. T. T., Holmes A. J. (2023, April). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. Society for Biological Psychiatry, San Diego, California.

**Ricard J. A.**, Labache L., Chopra S., Dhamala E., Harnett N. G., Jones G., Yip S. W., Holmes A. J. (2022, November). The network-level correlates of cocaine use disorder. Society for Neuroscience, San Diego, California.

Dhamala E., Ooi L. Q. R., Qu L., **Ricard J. A.**, Berkeley E., Yeo B. T. T., Holmes A. J. (2022, November). Shared functional networks underlie distinct psychiatric behaviors across the sexes. Society for Neuroscience, San Diego, California.

Jones G., **Ricard J. A.**, Lipson J., Nock M.K. (2022, September). Associations between classic psychedelics and opioid use disorder in a nationally-representative US adult sample. Society for Research in Psychopathology, virtual presentation.

Chopra S., Lawhead C., **Ricard J. A.**, Gillis B., Blankenbaker C., An L., Wulan N., Chen P., Fairbank-Haynes K., Kumar P., Rubenstein A., Harpaz-Rotem I., Yeo B. T. T., Baker J. T., Holmes A. J. (2022, September). Leveraging phenotypic predictive models derived in large-scale datasets to boost brain-behavior predictions in clinical populations. Society for Research in Psychopathology, Philadelphia, Pennsylvania.

**\*Ricard J. A.**, \*Lawhead C., Chopra S., Gillis B., Chen L., Moses J., Blankenbaker C., Tao J., Fairbank-Haynes, K., Kumar P., Rubenstein A., Harpaz-Rotem I., Yeo B. T. T., Baker J. T., Holmes A. J. (2022, September). Characterizing functioning connectomes across affective and psychotic illness. Society for Research in Psychopathology, Philadelphia, Pennsylvania. \*Indicates co-first author

Jones G., **Ricard J. A.**, Lipson J., Nock M. K. (2022, August). Associations between classic psychedelics and opioid use disorder in a nationally-representative US adult sample. American Psychological Association, virtual presentation.

\*Lawhead, C., **\*Ricard J. A.**, Chopra S., Gillis B., Chen L., Moses J., Blankenbaker C., Tao J., Fairbank-Haynes, K., Kumar, P., Rubenstein, A., Harpaz-Rotem, I., Yeo, B. T. T., Baker J. T., Holmes, A. J. (2022, July). Developing an understanding of the functional connectomics of affective and psychotic illness. CPC++: Computational Psychiatry Conference, New York City, New York. \*Indicates co-first author

\*Lawhead C., **\*Ricard J. A.**, Chopra S., Chen L., Moses J., Blankenbaker C., Tao J., Fairbank-Haynes K., Kumar P., Rubenstein A., Harpaz-Rotem I., Yeo B. T. T., Baker J. T., Holmes, A. J. (2022, April). Toward an understanding of the functional connectomics of affective and psychotic illness. Society for Biological Psychiatry (SOBP) Conference, New Orleans, Louisiana. \*Indicates co-first author

Jones G., **Ricard J. A.**, Lipson J., Nock M. K. (2022, June). Associations between classic psychedelics and opioid use disorder in a nationally-representative US adult sample. Mind & Life Summer Research Institute, virtual presentation.

Guercio G., Kohler L., **Ricard J. A.**, Santosa H., & Vinogradov S. (2020, April). Differential involvement of DLPFC and MPFC during encoding and retrieval of self-referential information: A functional near-infrared spectroscopy (fNIRS) study. Society for Biological Psychiatry (SOBP) Conference, New York City, New York.

**Ricard J. A.**, Tommee C. G., Cramer S. W., Charles R., Le A., Bell W. R., Chen C. C., Flanagan M. E. (2019 December). Osseous Spine Metastasis of Infratentorial GBM Neoplasm, Presented at: University of Minnesota Annual Meeting for the Board of Regents and President, Joan Gabel, Minneapolis, Minnesota.

**Ricard, J. A.**, Lieberman S., Rivera D. A., Falkenhain K., Bracko O., Schaffer C. B., Nishimura N. (2019, November). Restoration of Blood Flow Decreases Epileptiform Activity in a Mouse Model of Alzheimer's Disease. Presented at: Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, California.

**Ricard, J. A.**, Lieberman S., Rivera D. A., Falkenhain K., Bracko O., Schaffer C. B., Nishimura N. (2019, August). Restoration of Blood Flow Decreases Epileptiform Activity in a Mouse Model of Alzheimer's Disease. Presented at: Cornell University, Diversity Summer Research Symposium, Ithaca, New York.

**Ricard J. A.**, Tommee C. G., Cramer S. W., Charles R., Le A., Bell W. R., Chen C. C., Flanagan M. E. (2019, June). Infratentorial Glioblastoma Metastasis to Bone. Presented at: American Associations of Neuropathologists (AANP) Annual Meeting, Atlanta, Georgia.

Tommee C. G., **Ricard J. A.**, Charles R., Yohe S., Bell W. R., Flanagan M. E. (2019, June). Epstein Virus Barr positive Diffuse Large B-cell Lymphoma in the CNS associated with Hemophagocytic Lymphohistiocytosis. Presented at: American Associations of Neuropathologists (AANP) Annual Meeting, Atlanta, Georgia.

**Ricard J. A.**, Le A., Hemmy L., Flanagan M. E. Pathologic TDP-43 in Centenarians in the Nun Study. (2019, April). New England Science Symposium, Harvard University Medical School, Boston, Massachusetts.

Williams J. R., Meyer R. M., **Ricard J.**, & Chesnut R. M. (2018, October). Decreased Distance from Midline in Decompressive Craniectomy Predicts Development of Hydrocephalus. Congress of Neurological Surgeons, Houston, Texas.

**Ricard J. A.**, Le A., Hemmy L., Flanagan M. E. Neuropathologic Features of Centenarians in the Nun Study. (2018, August). Clinical and Translational Science Institute (CTSI) Annual Poster Session at Surly Brewing Company, Minneapolis, Minnesota.

**Ricard J. A.**, Langer E., Spector L. (2018, February). The Effect of Candidate Gene CTNNB1 on Hepatoblastoma. Emerging Researchers National (ERN) Conference in STEM, Washington, District of Columbia.

**Ricard J. A.**, Langer E., Spector L. (2017, August). The Effect of Candidate Gene CTNNB1 on Hepatoblastoma. Summer Undergraduate Research Symposium at the University of Minnesota, Minneapolis, Minnesota.

## **RESEARCH GRANTS AND FELLOWSHIPS**

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<b>Knight-Hennessy Scholar</b>	2023
Title: Principal Investigator Amount Awarded: ~\$300,000 over three years	
<b>Ford Foundation Predoctoral Fellowship</b>	2023
Submission: The neurobiological underpinnings of substance use disorder and systemic inequity Title: Principal Investigator Amount Awarded: \$81,000 over three years	
<b>Undergraduate Research Opportunities Program (UROP) Research Grant Awardee</b>	2020
Submission: The use of functional near-infrared spectroscopy to analyze potential differences in brain activity between users and non-users of cannabis Title: Principal Investigator (Faculty Sponsor: Dr. Sophia Vinogradov) Amount Awarded: \$1,800	
<b>Cornell University Diversity Programs in Engineering Research Grant</b>	2019
Submission: Restoration of blood flow decreases epileptiform activity in a mouse model of Alzheimer's disease Title: Principal Investigator (Faculty Sponsor: Dr. Nozomi Nishimura) Amount Awarded: \$4,000	
<b>University of Minnesota Pathways to Research Program Grant</b>	2018
Submission: Pathologic TDP-43 in centenarians of the Nun Study Title: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan) Amount Awarded: \$5,760	
<b>University of Minnesota Undergraduate Research Opportunities Program Research Grant</b>	2018
Submission: Sensitivity of detection of pathologic TDP-43 protein Title: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan) Amount Awarded: \$1,800	
<b>University of Minnesota Multicultural Summer Research Opportunities Program Grant</b>	2017
Submission: The effect of candidate gene CTNNB1 on Hepatoblastoma Title: Principal Investigator (Faculty Sponsor: Dr. Logan Spector) Amount Awarded: \$4,000	
<b>International Undergraduate Research Opportunities Program Research Grant</b>	2017
Submission: The effect of cosmetic medical tourism on development in Chiang Mai, Thailand Title: Principal Investigator (Faculty Sponsor: Dr. Mark Ritchie) Amount Awarded: \$2,500	

## RESEARCH EXPERIENCE

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### Research Assistant

2021 –

Yale University, New Haven, CT

Dr. Avram Holmes, Department of Psychology and Psychiatry

Project: *Functional genomics of the human connectome in psychiatric illness; Network-level correlates of cocaine use disorder*

### Research Assistant

2020 – 2021

Deutsches Zentrum für Neurodegenerative Erkrankungen, Berlin, DE

Dr. Silvia Viana Da Silva, Department of Neuroscience

Project: *Deconstructing the energy production rules for neuronal network oscillations and cognitive function*

### Research Assistant

2018 – 2020

University of Minnesota, Minneapolis, MN

Dr. Sophia Vinogradov, Department of Psychiatry and Behavioral Sciences

Project(s): *How does the brain discriminate between internally- and externally- generated stimuli? The use of functional near-infrared spectroscopy to analyze potential differences in brain activity between users and non-users of cannabis*

### Research Assistant

2019 – 2019

Cornell University, Ithaca, NY

Drs. Chris Schaffer and Nozomi Nishimura, Department of Biomedical Engineering

Project: *Restoration of blood flow decreases epileptiform activity in a mouse model of Alzheimer's disease*

### Research Assistant

2017 – 2019

University of Minnesota, Minneapolis, MN

Dr. Margaret E. Flanagan, Department of Pathology

Project(s): *Sensitivity of detection of pathologic TDP-43 protein; Pathologic TDP-43 in centenarians of the Nun Study*

### Research Assistant

2017 – 2017

University of Minnesota, Minneapolis, MN

Dr. Logan Spector, Department of Pediatrics, Division of Epidemiology

Project: *The effect of candidate gene CTNNB1 on Hepatoblastoma*

### Research Assistant

2017 – 2017

International Sustainable Development Studies Institute, Chiang Mai, Thailand

Dr. Mark Ritchie, International Sustainable Development Studies Institute

Project: *The effect of cosmetic medical tourism on development in Chiang Mai*

## HONORS & AWARDS

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### Travel Award, 20th International Summer School on Bio-X

2023

Technical University of Crete and University of Houston

Chania, Greece

### Selected Participant, Learning about Laney

2022

Laney Graduate School

Emory University, Atlanta, GA

<b>Selected Participant, PPREP Program</b> Department of Psychology Harvard University, Cambridge, MA	2021
<b>Selected Participant, Mind Dive-In Preview Program</b> MindCORE Center for Outreach, Research, and Education University of Pennsylvania, Philadelphia, PA	2021
<b>Selected Participant, Biomedical Science Careers Student Conference</b> Office for Diversity Inclusion & Community Partnership Harvard Medical School, Boston, MA	2021
<b>Selected Participant, Neuroscience Graduate Preview Program</b> Neuroscience Graduate Program University of Michigan Medical School, Ann Arbor, MI (Cancelled due to COVID-19)	2020
<b>Munich Brain Course Award</b> Graduate School of Systemic Neurosciences Ludwig-Maximilians-Universität (LMU), Munich, Germany (Cancelled due to COVID-19)	2020
<b>Selected Participant, EnGAGE Diversity Weekend</b> Fu Foundation School of Engineering and Applied Science Columbia University, New York, NY	2020
<b>Dean's List</b> (awarded x2) College of Biological Sciences University of Minnesota, Minneapolis, MN	2020
<b>Selected Participant, Diversity Preview Day</b> Yale Graduate School of Arts and Sciences Yale University, New Haven, CT	2020
<b>Selected Participant, Engineering Preview Program</b> Viterbi School of Engineering University of Southern California, Los Angeles, CA (Cancelled due to COVID-19)	2020
<b>Florence Sinclair Award</b> College of Biological Sciences University of Minnesota, Minneapolis, MN	2020
<b>President's Emerging Scholars Award</b> (awarded x2) Office of Undergraduate Education University of Minnesota, Minneapolis, MN	2020



<b>Travel Award, North Star STEM Alliance</b> New England Science Symposium University of Minnesota, Minneapolis, MN	2019
<b>Travel Award, North Star STEM Alliance</b> American Associations of Neuropathologists (AANP) Annual Meeting University of Minnesota, Minneapolis, MN	2019
<b>Selected Participant, Tom Burnett Advanced Leadership Program</b> Leadership Education and Development University of Minnesota, Minneapolis, MN	2019
<b>Selected Participant, Diversity in Doctoral Education and Scholarship</b> Graduate School of Business, Haas School of Business Stanford University and University of California, Berkeley, Palo Alto and Berkeley, CA	2019
<b>Travel Award, North Star STEM Alliance</b> Annual Biomedical Research Conference for Minoritized Scientists University of Minnesota, Minneapolis, MN	2019
<b>North Star STEM Grad Prep Scholar</b> Louis Stokes Alliance for Minority Participation University of Minnesota, Minneapolis, MN	2018
<b>Community Health Initiative Scholarship</b> Business and Community Economic Development University of Minnesota, Minneapolis, MN	2018
<b>Travel Award, North Star STEM Alliance</b> Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics University of Minnesota, Twin Cities	2018
<b>Monica Tsang and James Weatherbee Merit Scholarship in Biology</b> College of Biological Sciences University of Minnesota, Minneapolis, MN	2018
<b>U Promise Award</b> (awarded x4 annually) College of Biological Sciences University of Minnesota, Minneapolis, MN	2016
<b>Multicultural Civic Engagement Program</b> Multicultural Center for Academic Excellence University of Minnesota, Minneapolis, MN	2016
<b>Selected Participant, North Star STEM First Year Scholar</b> Louis Stokes Alliance for Minority Participation University of Minnesota, Minneapolis, MN	2016



**Page Education Foundation Education and Service Grant** (awarded x4 annually) 2016  
Page Education Foundation  
University of Minnesota, Minneapolis, MN

## **ACADEMIC CONTRIBUTIONS TO DIVERSITY AND EQUITY**

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**Postgraduate Association Co-Founder & Chair for Advocacy, Diversity, Equity, & Inclusion** 2021 – 2022  
Yale University, New Haven, CT

**Panelist for Yale Summer Enrichment Research Experience: Pathways in Science** 2022 – 2022  
Yale University, New Haven, CT

**Office of Undergraduate Research Student Assistant** 2018 – 2020  
University of Minnesota, Twin Cities, Minneapolis, MN

**Assistant Program Leader Learning Abroad Center: Tradition and Innovation in Iceland** 2019 – 2019  
University of Minnesota, Twin Cities, Minneapolis & Reykjavik, Iceland

**Peer Mentor for Louis Stokes Alliance for Minority Participation** 2017 – 2020  
University of Minnesota, Twin Cities, Minneapolis, MN

**Graduate-Prep Scholar Louis Stokes Alliance for Minority Participation** 2019 – 2019  
University of Minnesota, Twin Cities, Minneapolis, MN

**Hospice Volunteer Allina Health Hospice** 2019 – 2019  
Allina Health Hospice and Palliative Care, Minneapolis, MN

**Minnesota Future Doctors Undergraduate Scholar** 2018 – 2020  
University of Minnesota, Twin Cities, Minneapolis, MN

**First Year Prep Scholar Louis Stokes Alliance for Minority Participation Prep Program** 2016 – 2017  
University of Minnesota, Twin Cities, Minneapolis, MN

**President's Emerging Scholars Student Board Co-Founder and Vice President** 2017 – 2018  
University of Minnesota, Twin Cities, Minneapolis, MN

**College of Biological Sciences Dean's Scholar** 2016 – 2020  
University of Minnesota, Twin Cities, Minneapolis, MN

**Page Education Foundation Page Scholar** 2016 – 2020  
Page Education Foundation, Minneapolis, MN

## **AD HOC REVIEWER**

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Trends in Cognitive Sciences  
Cerebral Cortex

## TECHNICAL SKILLS

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3T Siemens MRI Certified Operator, R, Bash/Unix, High Performance Computing Clusters (HPC), Qualtrics, REDCap, Hemocytometer, Immunohistochemistry (IHC) Staining, Cell Culture, Functional Near-Infrared Spectroscopy (fNIRS) Neuroimaging, Surface and Depth Electrode Implantation Surgery (Mice)

## SELECTED NEWS

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Rocheleau, J. (2023, March 16). Neuroscience has a race problem. Nautilus.

Gardner, C. (2022, December 23). *Confronting racially exclusionary practices in the acquisition and analyses of neuroimaging data*. Yale School of Medicine.

Law, T. (2022, April 18). *Psilocybin could be a therapeutic breakthrough for addiction*. Time.

Rodriguez, A. (2022, April 7). *People who used 'magic mushrooms' less likely to develop opioid use disorder, study finds*. USA Today.

## PROFESSIONAL DEVELOPMENT AND TRAINING

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BIO-X School on Data Science and Engineering in Medicine and Biology, June 4<sup>th</sup> – 10<sup>th</sup>, 2023. Chania, Greece  
Functional MRI Workshop, MGH Martinos Center, October 17<sup>th</sup> – 21<sup>st</sup>, 2022. Virtual  
Neuroimaging, Neuroscience, Neuro-oncology International Summer School, June 4<sup>th</sup> – 9<sup>th</sup>, 2022. Lipari, Italy

## PROFESSIONAL MEMBERSHIPS

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Society for Biological Psychiatry (SOBP)  
Organization for Human Brain Mapping (OHBM)  
Society for Research in Psychopathology (SRP)  
Society for Neuroscience (SfN)