


CURRICULUM VITAE  
**Jocelyn A. Ricard**  
Stanford University School of Medicine  
Stanford, CA, USA

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## EDUCATION

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<b>Stanford University</b> Knight-Hennessy Scholar, School of Medicine 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

## HONORS & AWARDS

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### External

Knight-Hennessy Scholar, Stanford University	2023
Ford Foundation Predoctoral Fellowship, National Academies of Science, Engineering, and Medicine	2023
NSF Fellow: International Summer School on Bio-X, Technical University of Crete, Chania, Greece	2023
Page Education and Service Scholarship, Page Education Foundation, Minneapolis, MN	2016 - 2020
Munich Brain Course Award, Ludwig-Maximilians-Universität (LMU), Munich, Germany	2020

### Internal

President's Emerging Scholars Scholarship, University of Minnesota, Minneapolis, MN	2020
Dean's List, University of Minnesota, Minneapolis, MN	2020
Florence Sinclair Award, University of Minnesota, Minneapolis, MN	2020
U Promise Award, University of Minnesota, Minneapolis, MN	2016 - 2020
Deans Scholar, College of Biological Sciences, University of Minnesota, Minneapolis, MN	2016 – 2020
Selected Participant, Tom Burnett Leadership Program, University of Minnesota, Minneapolis, MN	2019

Community Health Initiative Scholarship, University of Minnesota, Minneapolis, MN	2018
Tsang and Weatherbee Merit Scholarship in Biology, University of Minnesota, Minneapolis, MN	2018
Dean's List, University of Minnesota, Minneapolis, MN	2018
President's Emerging Scholars Scholarship, University of Minnesota, Minneapolis, MN	2016
Multicultural Civic Engagement Program Scholarship, University of Minnesota, Minneapolis, MN	2016
First Year Scholar, NSSA Louis Stokes Alliance for Minority Participation, Minneapolis, MN	2016

## RESEARCH INTERESTS

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

## PEER-REVIEWED PUBLICATIONS

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1. **Ricard JA**, Labache L, Segal A, Dhamala E., Cocuzza CV, Jones G, Yip S, Chopra S, Holmes AJ. (2023). A shared spatial topography links the functional connectome correlates of cocaine use disorder and dopamine D2/3 receptor densities. *bioRxiv*, 2023-11.  
(preprint: <https://www.biorxiv.org/content/10.1101/2023.11.17.567591v1.abstract>)
2. Dhamala E, Ooi LQR, Chen J, **Ricard JA**, Berkeley E, Chopra S, Qu Y, Lawhead C, Yeo BTT, Holmes AJ. (2023) Brain-based predictions of psychiatric illness-linked behaviors across sexes. *Biological Psychiatry*. PMID: 37031778, doi: <https://doi.org/10.1016/j.biopsych.2023.03.025>
3. \***Ricard JA**, \*Parker TC, Dhamala E, Kwasia J, Allsop A, Holmes, AJ. (2023). Confronting racially 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
4. Jones G, **Ricard JA**, 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
5. Parker TC, **Ricard JA**. (2022). Structural racism in neuroimaging: perspectives and solutions. *The Lancet Psychiatry*, 9(5), e22. PMID: 35430005, doi: 10.1016/S2215-0366(22)00079-7
6. Jones G, **Ricard JA**, 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
7. Williams JR, Meyer RM, **Ricard JA**, Sen R, Young CC, Feroze AH, Greil ME, Barros G, Durfy S, Hanak B, Morton RP, Temkin NR, Barber JK, Mac Donald CL, Chesnut RM. (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
8. **Ricard JA**, Charles R, Tommee CG, Yohe S, Bell WR, Flanagan ME. (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

9. **Ricard JA**, Cramer SW, Charles R, Tommee CG, Le A, Bell WR, Chen CC, Flanagan ME. (2019). Infratentorial glioblastoma metastasis to bone. *World Neurosurgery*, 131, 90-94. PMID: 31356980, doi: 10.1016/j.wneu.2019.07.142

## SELECTED MANUSCRIPTS IN-PREPERATION

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1. Chopra S, Dhamala E, Lawhead C, **Ricard JA**, Orchard ER, 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 LT, Baker JT, Yeo BT, Holmes AJ. (under review). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. (preprint: *medRxiv* 22283232).
2. Jones G, **Ricard JA**, Nock MK. (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.
3. Orchard ER, Funaro MC, Guan K, Wall KM, Yatziv T, Hart-Derrick V, Parker TC, Levy J, Shin R, **Ricard JA**, 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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1. Black in Neuro Week 2023, #NeuroRacism Journal Club: Meet the Experts, Virtual talk. (2023, July)
2. National Institutes of Health BRAIN Initiative, Neuroethics Working Group, Bethesda, MD. (2023, July)
3. Institute of Neurobiology, Universidad Nacional Autónoma de México. Querétaro, Mexico. (2022, December)

## CONFERENCE TALKS

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1. Dhamala E, Ooi LQR, Chen J, **Ricard JA**, Berkeley E, Chopra S, Qu Y, Lawhead C, Yeo BT, Holmes AJ (2023, July). Shared functional connections predict distinct psychiatric illness-linked behaviors across the sexes. Organization for Human Brain Mapping, Montreal, Canada.
2. **Ricard JA**, Labache L, Chopra S, Dhamala E, Jones G, Harnett NG, Yip SW, Holmes AJ (2023, April). The neural underpinnings of cocaine use disorder, Society for Biological Psychiatry, San Diego, California.
3. Chopra S, Dhamala E, Lawhead C, **Ricard JA**, 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 LT, Baker JT, Yeo BT, Holmes AJ (2023, April). Reliable and generalizable brain-based predictions of cognitive functioning across common psychiatric illness. Society for Biological Psychiatry, San Diego, California.
4. **Ricard JA**, Labache L, Chopra S, Dhamala E, Harnett NG, Jones G, Yip SW, Holmes AJ (2022, November). The network-level correlates of cocaine use disorder. Society for Neuroscience, San Diego, California.

5. Dhamala E, Ooi LQR, Qu L, **Ricard JA**, Berkeley E, Yeo BTT, Holmes AJ (2022, November). Shared functional networks underlie distinct psychiatric behaviors across the sexes. Society for Neuroscience, San Diego, California.
6. Jones G, **Ricard JA**, Lipson J, Nock MK (2022, September). Associations between classic psychedelics and opioid use disorder in a nationally representative US adult sample. Society for Research in Psychopathology, virtual presentation.
7. Chopra S, Lawhead C, **Ricard JA**, Gillis B, Blankenbaker C, An L, Wulan N, Chen P, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker JT, Holmes AJ (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.
8. **Ricard JA**, 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 BTT, Baker JT, Holmes AJ (2022, September). Characterizing functioning connectomes across affective and psychotic illness. Society for Research in Psychopathology, Philadelphia, Pennsylvania. \*Indicates co-first author
9. Jones G, **Ricard JA**, Lipson J, Nock MK (2022, August). Associations between classic psychedelics and opioid use disorder in a nationally representative US adult sample. American Psychological Association, virtual presentation.
10. Lawhead, C, **Ricard JA**, Chopra S, Gillis B, Chen L, Moses J, Blankenbaker C, Tao J, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker JT, Holmes AJ (2022, July). Developing an understanding of the functional connectomics of affective and psychotic illness. CPC++: Computational Psychiatry Conference, New York City, New York.
11. Lawhead C, **Ricard JA**, Chopra S, Chen L, Moses J, Blankenbaker C, Tao J, Fairbank-Haynes K, Kumar P, Rubenstein A, Harpaz-Rotem I, Yeo BTT, Baker JT, Holmes, AJ (2022, April) Toward an understanding of the functional connectomics of affective and psychotic illness. Society for Biological Psychiatry (SOBP) Conference, New Orleans, Louisiana.
12. Jones G, **Ricard JA**, Lipson J, Nock MK (2022, June). Associations between classic psychedelics and opioid use disorder in a nationally representative US adult sample. Mind & Life Summer Research Institute, virtual presentation.
13. Guercio G, Kohler L, **Ricard JA**, 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, virtual.
14. **Ricard JA**, Tommee CG, Cramer SW, Charles R, Le A, Bell WR, Chen CC, Flanagan ME (2019 December). Osseous Spine Metastasis of Infratentorial GBM Neoplasm, University of Minnesota Annual Meeting for the Board of Regents and President, Minneapolis, Minnesota.
15. **Ricard JA**, Lieberman S, Rivera DA, Falkenhain K, Bracko O, Schaffer CB, Nishimura N (2019, November). Restoration of Blood Flow Decreases Epileptiform Activity in a Mouse Model of Alzheimer's Disease. Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, California.

16. **Ricard JA**, 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. Cornell University, Diversity Summer Research Symposium, Ithaca, New York.
17. **Ricard JA**, 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. American Associations of Neuropathologists (AANP) Annual Meeting, Atlanta, Georgia.
18. Tommee CG, **Ricard JA**, Charles R, Yohe S, Bell WR, Flanagan ME (2019, June). Epstein Virus Barr positive Diffuse Large B-cell Lymphoma in the CNS associated with Hemophagocytic Lymphohistiocytosis. American Associations of Neuropathologists (AANP) Annual Meeting, Atlanta, Georgia.
19. **Ricard JA**, Le A, Hemmy L, Flanagan ME (2019, April). Pathologic TDP-43 in Centenarians in the Nun Study. New England Science Symposium, Harvard University Medical School, Boston, Massachusetts.
20. Williams JR, Meyer RM, **Ricard JA**, & Chesnut RM (2018, October). Decreased Distance from Midline in Decompressive Craniectomy Predicts Development of Hydrocephalus. Congress of Neurological Surgeons, Houston, Texas.
21. **Ricard JA**, Le A, Hemmy L, Flanagan ME (2018, August). Neuropathologic Features of Centenarians in the Nun Study. Clinical and Translational Science Institute (CTSI) Annual Poster Session at Surly Brewing Company, Minneapolis, Minnesota.
22. **Ricard JA**, Langer E, Spector L (2018, February). The Effect of Candidate Gene CTNBN1 on Hepatoblastoma. Emerging Researchers National (ERN) Conference in STEM, Washington, District of Columbia.
23. **Ricard JA**, Langer E, Spector L (2017, August). The Effect of Candidate Gene CTNBN1 on Hepatoblastoma. Multicultural Summer Research Opportunities Program Symposium, University of Minnesota, Minneapolis, Minnesota.

## RESEARCH GRANTS

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### **Undergraduate Research Opportunities Program (UROP) Research Grant** 2020

Submission: The use of functional near-infrared spectroscopy to analyze potential differences in brain activity between users and non-users of cannabis

Role: Principal Investigator (Faculty Sponsor: Dr. Sophia Vinogradov)

Amount Awarded: \$1,800

### **North Star STEM Alliance, Louis Stokes Alliance for Minority Participation Travel Grant** 2019

Annual Biomedical Research Conference for Minoritized Scientists

Role: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan)

Amount Awarded: \$1000

### **Cornell University Diversity Programs in Engineering Research Grant** 2019

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

Role: Principal Investigator (Faculty Sponsor: Dr. Nozomi Nishimura)

Amount Awarded: \$4,000

<b>North Star STEM Alliance, Louis Stokes Alliance for Minority Participation Travel Grant</b> New England Science Symposium University of Minnesota, Minneapolis, MN Amount Awarded: \$1000	2019
<b>North Star STEM Alliance, Louis Stokes Alliance for Minority Participation Travel Grant</b> American Associations of Neuropathologists (AANP) Annual Meeting Role: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan) Amount Awarded: \$1000	2019
<b>University of Minnesota Pathways to Research Program Grant</b> Submission: Pathologic TDP-43 in centenarians of the Nun Study Role: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan) Amount Awarded: \$5,760	2018
<b>University of Minnesota Undergraduate Research Opportunities Program Research Grant</b> Submission: Sensitivity of detection of pathologic TDP-43 protein Role: Principal Investigator (Faculty Sponsor: Dr. Margaret E. Flanagan) Amount Awarded: \$1,800	2018
<b>North Star STEM Alliance, Louis Stokes Alliance for Minority Participation Travel Grant</b> Emerging Researchers National Conference in Science, Technology, Engineering and Mathematics Role: Principal Investigator (Faculty Sponsor: Dr. Logan Spector) Amount Awarded: \$1000	2018
<b>University of Minnesota Multicultural Summer Research Opportunities Program Grant</b> Submission: The effect of candidate gene CTNNB1 on Hepatoblastoma Role: Principal Investigator (Faculty Sponsor: Dr. Logan Spector) Amount Awarded: \$4,000	2017
<b>International Undergraduate Research Opportunities Program Research Grant</b> Submission: The effect of cosmetic medical tourism on development in Chiang Mai, Thailand Role: Principal Investigator (Faculty Sponsor: Dr. Mark Ritchie) Amount Awarded: \$2,500	2017

## RESEARCH EXPERIENCE

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<b>Research Assistant</b> Yale University, New Haven, CT Dr. Avram Holmes, Department of Psychology and Psychiatry <u>Project:</u> <i>Functional genomics of the human connectome in psychiatric illness; Network-level correlates of cocaine use disorder</i>	2021 – 2023
<b>Research Assistant</b> Deutsches Zentrum für Neurodegenerative Erkrankungen, Berlin, DE Dr. Silvia Viana Da Silva, Department of Neuroscience <u>Project:</u> <i>Deconstructing the energy production rules for neuronal network oscillations and cognitive function</i>	2020 – 2021
<b>Research Assistant</b>	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 CTNBNB1 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*

### ACADEMIC CONTRIBUTIONS TO DIVERSITY AND EQUITY

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#### External

Peer Mentor, Reality Changers, San Diego, CA

2023

Hospice Volunteer, Allina Health Hospice and Palliative Care, Minneapolis, MN

2019

#### Internal

Co-Founder and Chair for Advocacy and DEI, Yale Postgraduate Association, New Haven, CT

2021 – 2022

Panelist, Yale Summer Enrichment Research Experience: Pathways in Science, New Haven, CT

2022

Assistant Program Leader, University of Minnesota Learning Abroad Center, Reykjavik, Iceland

2019

Peer Mentor, Louis Stokes Alliance for Minority Participation, Minneapolis, MN

2017 – 2020

Graduate Prep Scholar, Louis Stokes Alliance for Minority Participation, Minneapolis, MN

2019

Research Coordinator and Assistant, Office of Undergraduate Research, Minneapolis, MN

2018 – 2020

Scholar, Minnesota Future Doctors, Minneapolis, MN

2018 – 2020

First Year Prep Scholar, Louis Stokes Alliance for Minority Participation, Minneapolis, MN

2016 – 2017

Co-founder and Vice President, President's Emerging Scholars Student Board, Minneapolis, MN

2017 – 2018

Dean Scholar, College of Biological Sciences, Minneapolis, MN

2016 – 2020

### AD HOC REVIEWER

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Trends in Cognitive Sciences

Cerebral Cortex

## 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)

## 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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1. Rocheleau, J. (2023). Neuroscience has a race problem. Nautilus.
2. Gardner, C. (2022). Confronting racially exclusionary practices in the acquisition and analyses of neuroimaging data. Yale School of Medicine.
3. Law, T. (2022). Psilocybin could be a therapeutic breakthrough for addiction. Time.
4. Rodriguez, A. (2022). People who used 'magic mushrooms' less likely to develop opioid use disorder, study finds. USA Today.