

# *Maheen Mausoo Adamson, PhD, MHL*

## Curriculum Vitae

### Contact Details

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### Education

2020-2022	<b>Masters of Science in Healthcare Leadership,</b> Brown University, School of Professional Studies, Providence, Rhode Island
2020 - 2021	<b>Biodesign Faculty Innovation Fellowship,</b> Stanford Byers Center for Biodesign, Stanford University School of Medicine, Stanford, CA
2018	<b>Executive Program in Leadership for Women</b> <b>Knights Business School, Stanford University</b> Certificate
2005 - 2008	<b>Stanford/VA Postdoctoral Fellowship</b> <b>Stanford/VA Aviation Research Laboratory</b> <i>Mentors:</i> Joy L. Taylor, PhD & Jerome Yesavage, MD
1999 - 2004	<b>Doctorate in Philosophy, University of Southern California</b> Neuroscience Department of Neuroscience <i>Mentor:</i> Joseph B. Hellige, PhD
2002	<b>NIH Graduate Summer Fellowship in Neuroscience</b> Department of Neuroscience, University of Southern California <i>PI:</i> Richard Thompson, PhD
1998	<b>Bachelor of Sciences, University of California, Irvine</b> <i>Biology, Excellence in Research Award</i> <i>Honors Thesis:</i> “Hippocampal mediated plasticity in auditory cortex of the rat” <i>Advisor:</i> Norman Weinberger, PhD
1998	<b>Bachelor of Arts, University of California, Irvine</b> <i>Women Studies, Cum Laude</i> <i>Honors Thesis:</i> “Plasticity of gender roles in urban society” <i>Advisors:</i> Laura Kang, PhD & Robyn Weigman, PhD

### Employment

January 2023 - Present	<b>Director Research (0.8 FTE; GS14)</b> Women’s Operational Military Exposure Network (WOMEN)
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**January 2023 - Present**

Manages overall research for national center supported by VA Central Office for women Veterans' health problems related to military exposure.

**Senior Scientist (0.20 FTE; GS 14)**

Rehabilitation Service, VA Palo Alto Healthcare System

Manages educational endeavors and innovation for Rehabilitation Service.

Develops and maintains neuroimaging, neuromodulation, epidemiology, clinical trials, and innovations like virtual reality, dissemination and educational outreach. Involved in strategic vision, planning, outreach and collaborations.

**March 2022 – January 2023**

**Clinical Research Scientific Director (FTE; GS-14)**

Rehabilitation Service, VA Palo Alto Healthcare System

Manages research administration, scientific inquiry, grant writing and management, educational endeavors and innovation for Rehabilitation Service.

Develops and maintains neuroimaging, neuromodulation, epidemiology, clinical trials, and innovations like virtual reality, dissemination and educational outreach. Involved in strategic vision, planning, outreach and collaborations.

**June 2020 – March 2022**

**Clinical Research Senior Scientific Director (FTE)**

Rehabilitation Service, VA Palo Alto Healthcare System (Principal Investigator (PI) at Palo Alto Veterans Institute of Research (PAVIR))

Manages Research administration, scientific inquiry, grant writing and management, educational endeavors and innovation for Rehabilitation Service.

Develops and maintains neuroimaging, neuromodulation, epidemiology, clinical trials, and innovations like virtual reality, dissemination and educational outreach. Involved in strategic vision and planning.

**December 2015 – June 2020**

**Senior Scientific Research Director (FTE)**

Defense & Veterans Brain Injury Center (DVBIC), VA Palo Alto Healthcare System

Managed, developed and conducted research for Defense & Veterans Brain Injury Center (DVBIC), reported nationally on multi-site studies, developed DVBIC VAPA as a leading research site, managed staff, admin and education.

**August 2012 – December 2015**

**Deputy Director Research (FTE; GS 13)**

War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Healthcare System

Developed War related Illness and Injury Study Center at Palo Alto site in terms of research, education and clinical trials. Involved in neuroimaging, neuromodulation and database creation. Managed staff and educational activities. Also involved in strategic planning.

**May 2012 – September 2012**

**Instructor (Part-time 20%)**

Palo Alto University

Taught clinical psychology graduate students neuropsychology and the brain for a semester

**September 2008 – August 2012**

**Deputy Director Data Core (FTE; GS 12)**

War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Healthcare System

Established first clinical and research database for War Related Illness and Injury Study Center; helped write guidelines; created provider assessment portals, added

TBI assessments in clinical intakes; initiated VA Office of Academic Affairs Fellowships, grant writing and overall research administration with staff supervision.

**January 2005-  
September 2005**

**Adjunct Lecturer (Part-time 40%)**  
California State University, Fullerton  
Taught cognitive psychology to undergraduates.

**August 2004 –  
January 2005**

**Staff Research Associate (FTE)**  
Alzheimer's Disease Research, Center/University of California, Los Angeles  
Helped write the first regulatory proposal for Alzheimer's disease Neuroimaging Initiative (ADNI) at UCLA.

**August 2002 –  
June 2004**

**Head Teaching Assistant (Part-time 20%)**  
University of Southern Neurobiology & Psychology, California  
As a graduate student, played the role of head teaching assistant for neurobiology and psychology courses for undergraduates.

**September 1998  
– August 1999**

**Laboratory Manager (FTE)**  
Weinberger Learning & Memory Laboratory, University of California, Irvine  
Overall management of auditory physiology laboratory with experimental psychology, electrophysiology, histology, data analysis and writing.

## **Academic Appointments**

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**2016 – present**

**Clinical Associate Professor (Affiliated)**  
Neurosurgery, Stanford University School of Medicine

**2014 - 2018**

**Clinical Associate Professor (Affiliated)**  
Psychiatry & Behavioral Sciences, Stanford University School of Medicine

**2010 - 2014**

**Clinical Assistant Professor (Affiliated)**  
Psychiatry & Behavioral Sciences, Stanford University School of Medicine

**2009 - 2010**

**Instructor (Affiliated)**  
Psychiatry & Behavioral Sciences, Stanford University School of Medicine

**June 2016 –  
present**

**Director PhD Fellowship**  
Polytrauma, VA Palo Alto

**August 2012 –  
December 2015**

**Director PhD Fellowship**  
WRIISC, VA Palo Alto

## **Health Care Organization Research Administrative Commitments**

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**2023 - Present**

**Invited Board Member (to be announced June 2023)**  
Palo Alto Institute of Veterans Affairs (PAVIR)

**2022 – present**

**Co-Chair, Diversity, Equity, Inclusion & Accessibility**  
Veterans Affairs Palo Alto Healthcare System

<b>2022 – present</b>	<b>Chair, Diversity, Equity, Inclusion &amp; Accessibility</b> Palo Alto Veteran’s Institute of Research (PAVIR)
<b>2019 – 2020</b>	<b>Faculty Search Committee</b> Department of Radiology, Stanford University School of Medicine
<b>2017 – 2019</b>	<b>Stanford Institutional Review Board (IRB - Panel 4)</b> Stanford University
<b>2012 - 2015</b>	<b>Member, VA/Stanford Clinical Educator Affiliate Review Committee</b> Psychiatry & Behavioral Sciences, Stanford University School of Medicine

### **Clinical Teaching & Mentoring Responsibilities**

<b>2017 – present</b>	<b>Resident Research Day Committee</b> VA Palo Alto Physical, Medicine & Rehab/ Stanford University School of Medicine
<b>2013 - 2015</b>	<b>Supervision/Assessment Medical Rotation Stanford/VA Residents</b> Psychiatry & Behavioral Sciences, Stanford University School of Medicine/WRIISC
<b>2013 - 2015</b>	<b>National WRIISC Research Committee</b> Tri-WRIISC/OPH VA Central Office

### **Other Teaching Experience**

<b>2023</b>	<b>Lecture on Neuromodulation in Alzheimer’s Disease</b> Stanford/VA Alzheimer’s Disease Research Center, Stanford University School of Medicine
<b>2020-2022</b>	<b>Stanford High School Neuroscience Forum</b> Mentor, Neurosurgery Department, Stanford University School of Medicine
<b>2020 – 2021</b>	<b>Stanford Institute for Computational &amp; Mathematical Engineering</b> Instructor/Mentor for Masters Students Course
<b>2016 – present</b>	<b>Webinar Speaker Schedule</b> WRIISC/HSR&D/MIRECC, VA Palo Alto
<b>2017 – present</b>	<b>Summer Student Research Program/Journal Club</b> Rehabilitation Service/Polytrauma, VA Palo Alto
<b>2014 - 2018</b>	<b>Geriatric Psychiatry Fellows</b> Psychiatry & Behavioral Sciences, Stanford University School of Medicine
<b>2013 - 2018</b>	<b>Neuropsychology Seminar Polytrauma</b> VA Palo Alto
<b>2014 - 2016</b>	<b>Co-Chair Neuro-education Seminar</b>

	WRIISC/VA Palo Alto
2015	<b>Postdoctoral Fellow Mentor Department of Defense</b> Human Factors Engineering Technical Advisory Group (DOD HFE TAG)
2013	<b>Psychology Journal Club</b> University of California, San Francisco
2012 – 2015	<b>Manuscript Writing Group</b> WRIISC/VA Palo Alto
2012	<b>Case Presentation Stanford FY1/FY2 Residents</b> WRIISC/VA Palo Alto
2012	<b>Biological Basis of Behavior</b> Palo Alto University
2005	<b>Cognitive Psychology</b> California State University, Fullerton

## Post-Doctoral Fellows & Residents

2017-2020	<b>Mentor</b> VA OAA Polytrauma Fellowship  Emily Grossner, PhD Disep Ojukwu, MD, MBA, MPH Victoria Liou-Johnson, PhD Mark Greenhalgh, PhD, MPH Haleh Karabasforoushan, PhD Angela Phillips, PhD John Coetzee, PhD Kristen Wortman, PhD
2015	<b>Co-Mentor</b> Psychiatry Residency, Stanford University School of Medicine Kevin Bickart, MD, PhD
2011 – 2018	<b>Mentor</b> VA OAA WRIISC Fellowship/Stanford University School of Medicine  Windy M. McNerney, PhD Tong Sheng, PhD Michelle Madore, PhD Jordan Nechvatal, PhD Linda Isaac, PhD Keith Main, PhD Anna Milazzo, PhD Salil Soman, MD, MS (Co-Mentor) Nathan Hantke, PhD (Co-Mentor)

## Students & Trainees

<b>2019 - present</b>	<b>PhD Mentor</b> Tajwar Sultana, NED engineering University, Karachi, Pakistan Daniel Baldini, Palo Alto University Daya Grewal, Palo Alto University
<b>2018 - 2021</b>	<b>Master's Mentor</b> Ryan Thompson, Palo Alto University Felicia Sun, MS II, School of Medicine, University of Chicago Srija Seenivasan, Uniformed Services Health Science University
<b>2017- 2022</b>	<b>Undergraduate &amp; High School Mentor</b> Trevor E. Lee Ines Luttenbacher Oscar D. Mier Huy Thai Julian Martinez Henry Ogdent More Sohrab Sami Samreena Siddiqui Ikshu Pandey Anthony Liu Nathan Palamuttam Elika Eshghi Hannah Del Barrio Siddhi Shah Caroline Brown
<b>2016 - 2018</b>	<b>Co-Mentor</b> Lily Hyun Kyung Kim, MS II, Stanford University School of Medicine
<b>2009 - 2012</b>	<b>Mentor/VA WRIISC</b> Michelle Farrell Salla Rapakko Harrison Weinstein Meena Saleh Mario Ortega

## Honors & Awards

<b>2023</b>	<b>Invited Keynote, NP Psychiatry Conference</b> NP Psychiatric Hospital, Istanbul, Turkey
<b>2022</b>	<b>National Science Foundation I Corps Program</b> People's Choice Award & NSF Spirit Award
<b>2021-2022</b>	<b>Summer Neuroscience Program,</b> Neurosurgery (Dr. Harris), Stanford University School of Medicine

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<b>2022</b>	<b>Masters Award for Professional Excellence</b> Brown University, Providence, Rhode Island
<b>2021</b>	<b>Innovative Critical Challenge Project Award</b> Master of Science in Healthcare Leadership, Brown University School of Professional Studies
<b>2020 - 2021</b>	<b>Biodesign Faculty Innovation Fellowship, With Distinction</b> Stanford Byers Center for Biodesign, Stanford University School of Medicine
<b>2020-2021</b>	<b>Virtual Defense Tech</b> Showcase Accepted, Connect Summit Innovation Program, DOD
	<b>Spark-Seed-Spread (SSS) – IEX Pitch Accepted (Virtual)</b> VA Innovation Investment Program, VHA
<b>2021</b>	<b>1<sup>st</sup> International Conference for Women in Multifaceted Research</b> Keynote Speaker (Virtual)
<b>2019</b>	<b>Women of the World Festival</b> Invited Speaker, British Council, Karachi, Pakistan
	<b>Neurosurgery Grand Rounds</b> Invited Speaker, Aga Khan University, Karachi, Pakistan
	<b>Pakistan Independence Day</b> Keynote Speaker, Flag Raising Ceremony, Milpitas, California
	<b>Female Military Brain Injury Award</b> Pink Concussions, Toronto, Canada
<b>2018</b>	<b>Executive Program in Leadership</b> Business for Women Stanford University Graduate School
	<b>Inspirational Keynote Speaker</b> First Pakistani-American Female Scientist, OPEN Silicon Valley Conference
	<b>Selected Participant Leadership Development Program</b> Leading Team Science Teams workshop, Stanford University
<b>2017</b>	<b>Selected Speaker, 6th Annual Brain Mapping Day Briefing</b> Neuroscience Congressional Caucus, US Congress, Washington, DC
	<b>Best Poster, TBI Research Forum</b> DVBIC, VA Palo Alto
<b>2016</b>	<b>Honorary Mention Best Poster</b> Pink Concussions Conference, VA Palo Alto
	<b>Selected Proposal</b>

	VA Brain Trust InnoVAtion Meeting, Washington DC
<b>2015</b>	<b>Invitation &amp; Presentation</b> State of the Art TBI Conference (SOTA), Washington DC
	<b>Best Poster Presentation</b> Military & Veteran Networking Group, ACRM, Dallas, Texas
<b>2013</b>	<b>What's Hot in Neuroscience</b> Abstract, Society for Neuroscience Annual Meeting
<b>2010</b>	<b>Hot-Topics Poster</b> Poster International Consortium of Alzheimer's Disease
<b>2009</b>	<b>Distinguished Poster</b> Annual Meeting of the International Neuropsychological Society
<b>2008</b>	<b>Funded Participant Summer Award</b> NIMH/NIH Research Institute Training
<b>2006 - 2008</b>	<b>Diversity Supplement Award</b> NIA/NIH
<b>2007</b>	<b>Kathryn Grupe Award Honorable Mention</b> Alzheimer's Association, Northern California Chapter
<b>2005</b>	<b>Funded participant Summer NIA</b> Institute in Aging
<b>2002</b>	<b>Neurobiology Summer Fellowship</b> University of Southern California
<b>1996 - 1998</b>	<b>External Liaison Graduate Forum</b> University of Southern California Neuroscience
	<b>Excellence in Research Award</b> University of California, Irvine
	<b>Woman of Distinction Award</b> Fullerton College
	<b>Member Golden Key Honor</b> University of California, Society Irvine
	<b>Outstanding Academic Achievement Award</b> Fullerton College

**Professional Societies**

<b>2022 - present</b>	<b>Society for Biological Society</b> <b>American Speech-Language-Hearing Association</b> <b>American Psychological Association</b>
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	<b>Human Brain Mapping</b> <b>Pink Concussions</b> <b>Co-Chair Women’s Committee</b> American Congress of Rehabilitation Medicine <b>Women in Neuromodulation (WIN)</b> International Neuromodulation Society
<b>2020 - present</b>	<b>Co-Editor Special Topic: TBI</b> Frontiers in Neurology
<b>2019 -2023</b>	<b>Nominated Member</b> Sigma Xi
<b>2019 -2020</b>	<b>TBI Advisory Board Member</b> Department of Rehabilitation, State of California
<b>2019 - present</b>	<b>Contributing Member Enhancing Neuro Imaging and Genetics through Meta Analysis (ENGIMA)</b> Working Groups: COVID-19, Functional MRI, Brain Aging & Military
<b>2018 - 2020</b>	<b>Board of Governors</b> Academy of Certified Brain Injury Specialists  <b>Board of Directors</b> Brain Injury Association, California
<b>2015 – 2023</b>	<b>Board of Governors</b> <b>Science &amp; Military Committee Member</b> Society for Brain Mapping & Therapeutics
<b>2016 - 2020</b>	<b>Programming Committee Member</b> American Congress of Rehabilitation Medicine  <b>Chair Neurophysiology Task Force</b> American Congress of Rehabilitation Medicine
<b>2016 – 2018</b>	<b>Chair Neurophysiology Task Force</b> American Congress of Rehabilitation Medicine
<b>2017 - 2018</b>	<b>Programming Committee</b> 4 <sup>th</sup> Inter-Agency TBI Meeting, Washington DC
<b>2010 - 2020</b>	<b>Member</b> Alzheimer’s Association
<b>2014 - 2015</b>	<b>Member</b> International Neuropsychological Society
<b>2012 - 2015</b>	<b>Member</b> Society for Neuroscience

## Editorial Boards & Requested Reviewer

<b>2016 - present</b>	<b>Reviewer</b> Nature Scientific Reports NIH Center grants Human Brain Mapping Lancet Journals Neuroimage Journal of Neurotrauma Plos One Journal of FAA
	<b>Co-Editor</b> Special topic: TBI, Frontiers in Neurology
<b>2016- present</b>	<b>Grant Reviewer</b> USU CNRM Scientific Review VA Rehab SPIRE/Merit program DOD CDMRP program NIH/NIA/NINDS/Special Programs
<b>2013 - 2023</b>	<b>Senior Editor/Associate Editor</b> Journal of Alzheimer's Disease

## Grant Funding

Pending	<b>Site PI</b> CDMRP ADEPT: Adaptive Trial for the Treatment of Depressive Symptoms associated with Concussion using Repetitive Transcranial Magnetic Stimulation Protocols
Pending	<b>Site PI</b> NIH NINDS Augmenting neuromodulation treatments for improvement in cognition in women with brain injury and depression
Pending	<b>Site PI</b> CDMRP Inflammatory and epigenetic mechanisms underlying reproductive health issues in female veterans exposed to airborne hazards and burn pits
2022	<b>Co-I</b> National Science Foundation I Corps Program Soof Solutions Inc.
2022 – 2024	<b>Site PI</b> VA HSR&D

	Sociodemographic and Health Characteristics Profile of Veterans with TBI Residing in Rural Areas of the U.S. Territories
2021 – 2025	<b>Site Co-I</b> CDMRP Multisite Advancement of Research for Chronic Posttraumatic Headache (Project: MARCH)
2021 – 2023	<b>Site PI</b> CDMRP Quantifying Biofeedback Training and Retention Effects on Functional Outcomes in Above-knee Prosthesis Users
2021 – 2024	<b>Site PI</b> CDMRP Validating Blood Biomarkers of Brain Immune and Metabolic Dysfunction in Gulf War Illness
2019 – 2024	<b>Site PI</b> CDMRP rTMS in Alleviating Pain and Co-Morbid Symptoms in GWVI
	<b>Site Co-I</b> VA MERIT CSR&D Long Term Efficacy of Neuronavigation-Guided rTMS in Alleviating Headache and Pain in GWI
2017 – 2022	<b>CO-I</b> NIH / NIA Award Noninvasive Cortical Stimulation to Improve Memory in MCI
2017 – 2022	<b>PI</b> DOD CDMRP Award Efficacy of Repetitive Transcranial Magnetic Stimulation for Improvement of Memory in Older Adults with TBI
2016 - 2022	<b>CO-I</b> DOD/US Advancing Clinical Outcomes, Biomarkers & Treatments for Severe TBI Army Medical Research & Material Command
2015 - 2017	<b>CO-I</b> VA Rehab SPIRE Award Repetitive Transcranial Magnetic Stimulation to Improve Cognitive Function in Dementia
2015 - 2018	<b>CO-I</b> DOD CDMRP Award A Phase IIa Open-Label Study to Evaluate the Safety, Tolerability, & Efficacy of KPAX 002 as a Treatment for Gulf War Illness in Meeting the Kansas Case Definition

2014 - 2016	<p><b>PI</b> VA Rehab SPIRE Award Repetitive Transcranial Magnetic Stimulation to Improve Cognitive Function in TBI</p> <p><b>CO-I</b> NARSAD Award Neurofeedback for PTSD</p>
2012 - 2016	<p><b>CO-I</b> VA Merit Award Effectiveness of Repetitive Transcranial Magnetic Stimulation (rTMS) for Chronic Pain in Veterans with Gulf War Syndrome</p>
2012 - 2013	<p><b>CO-I</b> Cognitive Control in Depression Seed Funds Cognitive Neurobiological Imaging Institute/Stanford University</p> <p><b>CO-I</b> Seed Funds Application of Real-Time fMRI in Volitional Control of Peripheral Neurobiological Visual Attention Cognitive Neurobiological Imaging Institute/Stanford University</p>
2006-2008	<p><b>PI</b> Cognitive and Neural Basis of Memory in Older Adults And Aviators Genetically at Risk NIA/NIH Research Supplements to Promote Diversity in Health</p>

## Bibliography

### Peer-Reviewed Journal Publications

1. Sultana, T., Hasan, M. A., Kang, X., Liou-Johnson, V., Adamson, M. M., Razi, A. Neural mechanisms of emotional health in traumatic brain injury patients undergoing rTMS treatment. *Molecular Psychiatry*.
2. Kennedy, E., Vadlamani, S., Lindsey, H. M., Lei, P., Pugh, M. J., Adamson, M. M. (2023). Bridging Big Data: Procedures for Combining Non-equivalent Cognitive Measures from the ENIGMA Consortium. *Proceedings of the National Academy of Sciences (PNAS)* (under review).
3. Dennis, E. L., Newsome, M. R., Lindsey, H. M., **Adamson, M.M**, Austin, T. A., Disner, S. G., Eapen, B. C., Esopenko, C., Franz, C. E., Geuze, E., Haswell, C., Hinds, S. R., Hodges, C. B., Irimia, A., Kenney, K., Koerte, I. K., Kremen, W. S., Levin, H. S., Morey, R. A., ... Wilde, E. A. (2022). Altered lateralization of the cingulum in deployment-related traumatic brain injury: An ENIGMA military-relevant brain injury study. *Human Brain Mapping*, 1– 13. <https://doi.org/10.1002/hbm.26179>
4. Hitching, R., Hoffman, H. G., Azucena, G. P., Adamson, M. M., Madrigal, E., Alhalabi, W., Fontenot, M. R., Sampaio, M., Peterson, B., Mason, K. P. (2022). The Emerging Role of Virtual Reality as an Adjunct to Procedural Sedation and Anesthesia: A narrative review. *In Press*.

5. Kang, X., Yoon, B. C., Shah, S., Adamson, M. M. (2022). Fixel-Based Analysis of the Diffusion Properties of the Patients with Brain Injury and Chronic Health Symptoms. *In Press*.
6. Hamilton, J.A., Ketchum, J.M., Hammond, F.M., Peterson, M.D., Zasler, N.D., Eapen, B.C., **Adamson, M. M.**, Galhorta, P.P., Harris, O., Nakase-Richardson, R., (2022). Comparison of veterans affairs and NIDILRR traumatic brain injury model systems participants with disorders of consciousness. *Brain Inj*, 1-11.
7. Kazemi, R., Rostami, R., Nasiri, Z., Hadipour, A. L., Kiaee, N., Coetzee, J. P., Philips, A., Brown, R., Seenivasan, S., **Adamson, M. M.** (2022). Electrophysiological and behavioral effects of unilateral and bilateral rTMS; A randomized clinical trial on rumination and depression. *Journal of Affective Disorders*, 317, Pages 360-372, <https://doi.org/10.1016/j.jad.2022.08.098>.
8. Khalighi, M. M., Spangler-Bickell, M., Deller, T., Jansen, F., Holley, D., Halbert, K., Zeineh, M., Glover, G., **Adamson, M. M.**, Rodriguez, C., Beinat, C., Poston, K., Mormino, E., Zaharchuk, G.. (2022). *Journal of Nuclear Medicine*, 63 (supplement 2) 2919.
9. **Adamson, M.M.**, Hadipour, A.L., Uyulan, C., Erguzel, T., Cerezci, O., Kazemi, R., Phillips, A., Seenivasan, S., Shah, S., & Tarhan, N. (2022) Sex Differences in rTMS Treatment Response: A Deep Learning-Based EEG Investigation. *Brain & Behavior*. 12, 8.
10. Bouchard, H.C., Sun, S., Dennis, E., Newsome, M.R., Disner, S.G., Elman, J., Silva, A., Velez, C., Irimia, A., Davenport, N., Sponheim, S, R., Franz, C.E., Kremen, W.S., Coleman, M. J, Williams, M.W., Geuze, E., Koerte, I.K., Shenton, M.E, **Adamson, M.M.**, Coimbra, R., Grant, G., Shutter, L., George, M.S., Zafonte, R.D., McAllister, T.W., Stein, M., Wilde, E.A., Tate, D.F., Thompson, P.M., Sotiras, A., & Morey, R.A. Age-Dependent White Matter Disruptions in Military Traumatic Brain Injury: Results from Multivariate Analysis of ENIGMA Data. (Accepted in *Human Brain Mapping*).
11. Luttenbacher, I., Philips, A., Kazemi, R., Hadipour, A. L., Sanghvi, I., Martinez, J., & **Adamson, M. M.** (2022). Transdiagnostic role of glutamate and white matter damage in neuropsychiatric disorders: A Systematic Review. *Journal of Psychiatric Research*, 147:324-348 [doi.org/10.1016/j.jpsychires.2021.12.042](https://doi.org/10.1016/j.jpsychires.2021.12.042).
12. **Adamson, M.M.**, Main, K.L., Harris, O.A., & Kang, X.K. (2022). Sex differences in cortical thickness and diffusion properties in patients with traumatic brain injury: a pilot study. *Brain Injury*. [doi.org/10.1080/02699052.2022.2034046](https://doi.org/10.1080/02699052.2022.2034046)
13. Zhao, E., Xia, D., Greenhalgh, M., Colicino, E., Monaro, M., Hitching, R., Harris, O., **Adamson, M.M.** (2021) Combining international survey datasets to identify indicators of stress during the COVID-19 pandemic: A machine learning approach to improve generalization. *COVID*, 1(4), 728-738; <https://doi.org/10.3390/covid1040058>
14. Fitzpatrick, C., Greenhalgh, M., Rodabaugh, T., Madrigal, E., Timmerman, M., Chung, J., Ahuja, D., Kennedy, Q., Harris, O.A., **Adamson, M.M.** (2021). Assessment of Task Demand and Usability of a Virtual Reality-Based Rehabilitation Protocol for Combat Related Traumatic Brain Injury from the Perspective of Veterans Affairs Healthcare Providers: A Pilot Study. *Front. Virtual Real*, <https://doi-org.laneproxy.stanford.edu/10.3389/frvir.2021.741578>
15. Luttenbacher, I., Breukel, J., **Adamson, M.M.**, (2021). The Mediating Role of Rumination in the Relationship Between Loneliness and Depression in University Students During the COVID-19 Pandemic. *COVID*, 1(2), 447-457; <https://doi.org/10.3390/covid1020038>
16. Kang, X., Coetzee, J.P., Main, K.L., Seenivasan, S., Zhu, K. & **Adamson, M.M.** (2021) Fiber Tract Integrity in Patients with Brain Injury and Chronic Health Symptoms. *NeuroImage Reports*, 1(4), <https://doi.org/10.1016/j.ynirp.2021.100047>
17. Uyulan, C., de la Salle, S., Erguzel, T., Lynn, E., Blier, P., Knott, V., Zelka, M., **Adamson, M.M.**, & Tarhan, K.N. (2021) Depression Diagnosis Modeling with Advanced Computational Methods: Frequency Domain eMVAR and Deep Learning. *Clinical EEG and Neuroscience*. 53(1) 24–36 [doi: 10.1177/15500594211018545](https://doi.org/10.1177/15500594211018545)
18. Peterson BN, Hitching R, Howard L, Zhu K, Fontenot MR, Alhalabi W, Seibel A, Harris OA, Madrigal E, Adamson MM and Hoffman HG (2021) Immersive Virtual Reality: A Safe, Scalable,

- Non-opioid Analgesic for Military and Veteran Patients. *Front. Virtual Real.* 2:742290. doi: 10.3389/frvir.2021.742290
19. Liu K., Chung, J.S., Madrigal, E., Harris, O.A., Timmerman, M., & **Adamson, M.M.** (2021) Headache Diary Mobile App for Monitoring Post-Traumatic Headaches in Daily Life. *Journal of Head Trauma and Rehabilitation* (In press).
  20. Xing, G., Zhang, Y., **Adamson, M.M.**, Furst, A.J., & Ashford, J.W. (2021) Advances in Diagnosis and Treatment of TBI-Induced Neurodegeneration and Cognitive Deficits. *Frontiers in Neurology*, doi: 10.3389/fneur.2021.695629
  21. Hantke, N., **Adamson, M.M.**, Noda, A., Lazzeroni, L.C., Beaudreau, S.A., Yutsis, M., Fairchild, J., Kinoshita, L.M., Kong, J., Sheng, T., Waltzman, D., Ashford, J.W., & Yesavage, J.A. (2021) Post Traumatic Stress Disorder - Associated Cognitive Deficits on the Repeatable Battery for the Assessment of Neuropsychological Status in a veteran population. *Federal Practitioner*, 38(1):26-32. Doi:10.12788/fp/0083
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## Book Chapters

1. **Adamson, M.M.**, Aftab, K., Madrigal, E., Timmerman M., Chung J., Galhotra, P., Kolakowsky-Hayner S., Coetzee, J. & Harris, O. A. (2020) Rehabilitation Strategies, and Innovations in Later Life for Traumatic Brain Injury Population. In *Comprehensive Clinical Psychology*, 2nd Edition. (In Press). 2020.
2. Ashford, J., **Adamson, M.M.**, Beale, T., La, D., Hernandez, B., Noda, A., Rosen, A., O’Hara, R., Fairchild, J., Spielman, D., & Yesavage, J. (2011) Magnetic Resonance Spectroscopy for

- Assessment of Memantine Treatment of Mild Dementia of Probable Alzheimer's Disease. In Ashford, J (Ed.), *Handbook of Imaging the Alzheimer's Brain*. Netherlands: IOS Press, 2011.
3. **Adamson, M.M.** (2011) Current advances in functional Magnetic Resonance Imaging for detecting Alzheimer's disease. In Ashford, J (Ed.), *Handbook of Imaging the Alzheimer's Brain*. Netherlands: IOS Press, 2011.
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## Presentations & Invited Symposia

1. **Adamson, M.M.** Biotech Showcase. JP Morgan Healthcare Conference. San Francisco, January, 2023.
2. **Adamson, M.M.** Neurocommunication and detection: Voice to the speechless. Stanford Ewear Seminar. Stanford Computer Science. December 2022.
3. **Adamson, M.M.** Creating a D.E.I.A. Blueprint for Palo Alto Veterans Institute for Research (PAVIR) – A Foundational Initiative. Co-Presenter. Stanford Lean Health Conference (2022).
4. **Adamson, M.M.** Virtual Reality adaptations for Rehabilitation. Virtual Reality Day (virtual). November 2022.
5. **Adamson, M.M.** Deep Phenotyping TBI: Insights from using sex, age, blood biomarkers and innovative treatments. Symposium Accepted (Chair). ACRM, Chicago (2022).
6. **Adamson, M.M.** Women and Brain injury: Insights from current research in epidemiology, brain imaging and storytelling. Symposium Accepted (Chair). ACRM, Chicago (2022).
7. **Adamson, M.M.** Virtual reality treatments for frequent health complaints in Veterans at the Polytrauma Department. Symposium Accepted (Chair). ACRM, Chicago (2022).
8. **Adamson, M.M.** Long Covid & the Brain, September 2022, Alia Health Conference, Zoom.
9. **Adamson, M.M.** Long Covid & the Brain, September 2022, VA Polytrauma conference, Zoom.
10. **Adamson, M.M.** & Victoria Liou-Johnson. Harnessing neural-based metrics to enhance innovation treatment strategies for improving cognitive decline in TBI. Cognitive Aging Symposium, Division 3, American Psychological Association, August, 2022.
11. **Adamson, M.M.** Fixel-Based Analysis of the Diffusion Properties of the Patients with Brain Injury and Chronic Health Symptoms. International Neurotrauma Society, Berlin, Germany, July 2022.
12. **Adamson, M.M.** Virtual Reality adaptations for Rehabilitation. VA Summer Immersive Summit, June 2022, Orlando, Florida.
13. **Adamson, M.M.** Headache Guidelines for Transcranial Magnetic Stimulation. Preconference speaker. International Neuromodulation Society, Barcelona, Spain, May 2022.
14. **Adamson, M.M.** Virtual Reality adaptations for Rehabilitation. Polytrauma Conference, VA Palo Alto Healthcare Systems, Palo Alto CA, March, 2022.
15. **Adamson, M.M.** Sex Differences in rTMS Treatment Response: A Deep Learning-Based EEG Investigation. North American Neuromodulation Society, Orlando Florida, 2021.
16. **Adamson, M.M.** Military Research TBI the State of Research in the DoD and VA – Roundtable. September 2021. <https://info.quesgen.com/military-related-tbi-replay>.
17. **Adamson, M.M.** Applications of Virtual Reality for Rehabilitation Among Veterans with Disabilities. ACRM. September 2021.
18. **Adamson, M.M.** Traumatic brain injury – new treatments from the pandemic. 9th Annual VA Central California Health Care System Virtual Mental Health Summit. September 2021.
19. **Adamson, M.M.** Deep learning approach to evaluate sex differences in response to neuromodulation in Major Depressive Disorder. North American Neuromodulation Society. July 2021, Orlando Florida.

20. **Adamson, M.M.** Current Research on Sex Differences in Brain Injury, PINK Virtual World Congress on Brain Injury, July 2021.
21. **Adamson, M.M.** Prediction of Brain Age for Healthy Individuals and Patients with Traumatic Brain Injuries. Virtual World Congress on Brain Injury, July 2021.
22. **Adamson, M.M.** Sex differences in Neuromodulation. Casual conversations, Brain Injury Professionals. Facebook Live Webinar. December 2020.
23. **Adamson, M.M.** Biology and Environment: Understanding the Female Brain. Society for Neuroscience Bay Area. Invited Speaker, August 2020.
24. **Adamson, M.M.** Brain on Yoga. Wellness Center, Rehabilitation Service, VAPAHCS. Invited Speaker. October 2020.
25. **Adamson, M.M.** Neuromodulation in Brain Injury: Current Perspectives from Neuroimaging and Proteomic Biomarkers. American Psychological Association (APA). Symposium Speaker, April 2020.
26. **Adamson, M.M.** Brain injury and dementia: deciphering the link thru global collaborative efforts. Invited Grand Rounds, Aga Khan University, December 18<sup>th</sup>, 2019, Karachi, Pakistan.
27. **Adamson, M.M.** Computational Techniques for Improving Neurological Conditions: Neuroimaging & Genetic Biomarker Evidence. NED National Engineering University, Invited Symposia, December 17<sup>th</sup>, 2019, Karachi, Pakistan.
28. **Adamson, M.M.** Improving cognition with neuromodulation: role of co-morbidities in brain injury rehabilitation. Invited Webinar, Aga Khan University, November 18<sup>th</sup>, 2019, Karachi, Pakistan.
29. **Adamson, M.M.** Computational techniques for improving neurological conditions: neuroimaging and genetic biomarker evidence. Symposium Chair and Presenter. American Congress of Rehabilitation Medicine, Chicago, IL, November 2019.
30. **Adamson, M.M.** Genetic factors in Myokine Mechanisms in Treatment of TBI. Symposium Chair and Presenter. American Congress of Rehabilitation Medicine, Chicago, IL, November 2019.
31. **Adamson, M.M.** Repetitive TMS in Brain Injury: Changes in Neuronal Activation, Cognitive Performance, and Protein Biomarkers. Chaired Symposium at National Neurotrauma Society, June 29<sup>th</sup>, 2019, Pittsburgh, PA.
32. **Adamson, M.M.** Repetitive transcranial magnetic stimulation for improving cognition in veterans with TBI: Results from pilot clinical trial. Invited Presentation at Stanford Neuroscience Forum, June 9<sup>th</sup>, 2019, Stanford, CA.
33. **Adamson, M.M.** Repetitive TMS in Brain Injury: Changes in Neuronal Activation, Cognitive Performance, and Protein Biomarkers. Invited Presentation at Royal Children's and Women's Hospital, Brisbane, Australia.
34. **Adamson, M.M.** Repetitive TMS in Brain Injury: Changes in Neuronal Activation, Cognitive Performance, and Protein Biomarkers. Chaired Symposium on Digital Health paradigms in Precision Medicine at Society for Brain Mapping and Therapeutics, March 2019, Los Angeles, CA.
35. **Adamson, M.M.** Repetitive TMS in Brain Injury: Changes in Neuronal Activation, Cognitive Performance, and Protein Biomarkers. Invited Presentation at Shirley Ryan Ability Lab, March 2019, Chicago, Illinois.
36. **Adamson, M.M.** Gender and Brain Injury: Injury, Symptomology, and Biology. Invited Presentation at Pink Concussions Conference, VA Tampa, December 2018, Tampa, Florida.
37. **Adamson, M.M.** Influential Biomarkers for Neuroplasticity: Clinical Impact in AD, TB, I and Cancer. Chaired Symposium at American Congress of Rehabilitation Medicine, Sep 2018, Dallas Texas.
38. **Adamson, M.M.** Innovative methods for data collection in Veteran and military populations. Chaired Symposium at American Congress of Rehabilitation Medicine, Sep 2018, Dallas Texas.
39. **Adamson, M.M.** Implementation Science: applying the lessons learned approach. Speaker at Symposium at American Congress of Rehabilitation Medicine, Sep 2018, Dallas Texas.

40. **Adamson, M.M.** Repetitive Transcranial Magnetic Stimulation for Improving Cognition in Veterans with TBI: Results from Pilot Clinical Trial. Neuroscience Forum, Neurosurgery, Stanford School of Medicine, June 8, Stanford CA
41. **Adamson, M.M.** Innovations in Combining Advanced Diagnostics and Therapeutics in TBI: The Future and Beyond. Chaired Symposium at 4th Federal Interagency TBI Conference, May 2018, Washington DC.
42. **Adamson, M.M.** Innovations in Smart Home Technologies for Brain Injury. Chaired Symposium at 4th Federal Interagency TBI Conference, May 2018, Washington DC.
43. **Adamson, M.M.** Gender & TBI: Biology, Injury & Symptomatology. Neurosurgery Research Faculty Meeting at Stanford School of Medicine, May 2018, Stanford CA.
44. **Adamson, M.M.** Current State of Advanced Neuroimaging in TBI. Natividad Medical Center, May 2018, Salinas, CA.
45. **Adamson, M.M.** Holistic Approach to Neuroscience Embracing Obstacles. Biotech Panel Keynote Address Open Silicon Valley Annual Forum, May 2018, Santa Clara, CA.
46. **Adamson, M.M.** Brain Stimulation in TBI, NP Istanbul Beyin Hastanesi, April 2018, Istanbul, Turkey.
47. **Adamson, M.M.** Updates of Brain Injury: New Horizons in Diagnosis and Treatment. DVBIC Symposium Shared Malik & Adamson at Society for Brain Mapping and Therapeutics, April 2018, Los Angeles, CA.
48. **Adamson, M.M.** Targeting Disruptive Connectivity in TBI: Brain Stimulation Research Project Updates. DVBIC Symposium Shared Malik & Adamson at Society for Brain Mapping and Therapeutics, April 2018, Los Angeles, CA.
49. **Adamson, M.M.** Defense and Veterans Brain Injury Center (DVBIC), Palo Alto Research Overview, Polytrauma System of Care Rehabilitation Research Meeting, February 2018, Palo Alto, CA.
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