Megan Corena Hall

(480) 205-9578 | megan.hall@boystown.org

Motivated researcher with diverse experience in psychology and neuroscience interested in early detection and prevention of Alzheimer's disease and related dementias using multimodal neuroimaging, blood-based biomarkers, psychosocial and sociodemographic factors, and neuropsychological assessment

EDUCATION

Barrett, the Honors College; Arizona State University **Aug. 2018-May 2022**
Bachelor of Science in Psychology (Psychological Science), and Anthropology
Certificates in Cross-Sector Leadership and Evolutionary Medicine

Cumulative GPA: 3.97/4.00, *summa cum laude*

Honors Thesis: The Effects of a Brief Exposure to Nature or Social Media on Psychological Well-Being
Thesis Advisors: Dr. Virginia S.Y. Kwan, Dr. William Corbin, Dr. Douglas Kenrick, and Samantha L. McMichael

PEER-REVIEWED PUBLICATIONS

*Contributed equally

7. **Hall, M.C.,** Rempe, M.P., John, J.A., Garrison, G.A., Glesinger, R.J., Casagrande, C.C., Petro, N.M., Okelberry, H.J., Petts, A.J., Bai, H., Bashford, S., Dietz, S.M., May-Weeks, P.E., Taylor, B.K., Arif, Y., Heinrichs-Graham, E., Picci, G., Spooner, R.K., & Wilson, T.W. (2026). Hippocampal and cortical oscillatory dynamics support semantic processing and performance. *Communications Biology.* https://doi.org/10.1038/s42003-026-09718-4

6. **Hall, M.C.,** Rempe, M.P., Casagrande, C.C., Glesinger, R.J., Petro, N.M., Garrison, G.M., John, A.J., Dietz, S.M., Schantell, M., Bai, H., Arif., Y., Embury, C.M., Bashford, S., Okelberry, H.J., Petts, A.J., Keifer, E.L., May-Weeks, P.E., Picci, G., Heinrichs-Graham, E., & Wilson, T.W. (2025). Age-related alterations in alpha and beta oscillations support preservation of semantic processing in healthy aging. *NPJ Aging, 11*(73). PMC12328654. https://doi.org/10.1038/s41514-025-00263-8

5. Silva, T.F., Hutchins, E., Zhao, W., Ciani, Y., Kim, M., Ko, E., Mariscal, J., Qiu, Z., Bedier, F., Kittel, A., Zhou, B., Wang, Y., **Hall, M.,** Galasso, F., Reiman, R., Freeman, M.R., Parker, S., Van Eyk, J., Yang, W., Posadas, E., Guarnerio, J., Nolan, J., Théry, C., Zijlstra, A., Stott, S., You, S., Demichelis, F., Boutros, P.C., Van Keuren-Jensen, K., & Di Vizio, D. (2025). Extracellular vesicles heterogeneity through the lens of multiomics. *Cell Reports Medicine, 6*(7). PMC11370325. https://doi.org/10.1016/j.xcrm.2025.102161

4. Rami, F. Searight, H.R., Dryjanska, L. & **Hall, M.C.** (2025). Modern slavery and the United Nations Sustainable Development Goals. *Canadian Psychology/Psychologie Canadienne, 66*(4). https://doi.org/10.1037/cap0000429

3. ***Hall, M.C.,** *Rempe, M.P., Glesinger, R.J., Horne, L.K., Okelberry, H.J., John, J.A., Embury, C.M., Heinrichs-Graham, E., & Wilson, T.W. (2024). Oscillatory activity in bilateral prefrontal cortices is altered by distractor strength during working memory processing. *NeuroImage, 301*(120878). PMC11531322. https://doi.org/10.1016/j.neuroimage.2024.120878

2. **Hall, M.C.,** McMichael, S.L., & Kwan, V.S.Y. (2023). Effects of a brief exposure to nature or social media on psychological well-being. *Modern Psychological Studies, 29*(1). https://scholar.utc.edu/mps/vol29/iss1/3/

1. Godfrey, R.K., Alsop, E., Bjork, R.T., Chauhan, B.S., Ruvalcaba, H.C., Antone, J., Gittings, L.M., Michael, A.F., Williams, C., Hala'ufia, G., Blythe, A.D., **Hall, M.**, Sattler, R., Van Keuren-Jensen, K., & Zarnescu, D.Z. (2023). Modelling TDP-43 proteinopathy in *drosophila* uncovers shared and neuron-specific targets across ALS and FTD relevant circuits. *Acta Neurological Communications, 11*(168). PMC10588218. https://doi.org/10.1186/s40478-023-01656-0

BOOK CHAPTERS

2. **Hall, M.C.**, Venkataramanan, V., Collins, R.Y., & Li, E.A. (2025). Post-traumatic growth and emotional resilience in immigrants and refugees from Africa and the Middle East. In Mayer, C.H. & Vanderheiden, E. (Eds), *The international handbook of emotions*. Springer, Cham. https://doi.org/10.1007/978-3-031-86445-2_12

1. **Hall, M.** (2023). COVID-19 testing, preventive measures, and ethical issues. In H.R. Searight (Ed.), *Covid-19 health disparities and ethical challenges across the globe*. Springer. https://doi.org/10.1007/978-3-031-26200-5_9

MANUSCRIPTS IN-SUBMISSION

3. Huang, P.J., Arif, Y., Schantell, M., Glesinger, R., Horne, L.K., Coutant, A.T., Okelberry, H.J., Ende, G., Garrison, G.M., De Luca, K.R., Carusi, O.R., **Hall, M.C.,** Volberding, L.D., Voller, M.E., John, J.A., & Wilson, T.W. (submitted). Substance-related visual cues alter sensory gating in chronic methamphetamine users.

2. **Hall, M.C.,** Picci, G., Rempe, M.P., John, J.A., Webert, L.K., Okelberry, H.J., Johnson, H.J., Horne, L.K., Willett, M.P., Glesinger, R.J., Rice, D.L., Coutant, A.T., Kress, K.A., Garrison, G.M., Bashford, S., Spooner, R.K., & Wilson, T.W. (under review). High-resolution MRI evidence for age- and sex-related changes in hippocampal subfield volume during healthy aging.

1. Rempe, M.R., Garrison, G.M., Springer, S.D., Glesinger, R.J., Petts, A.J., Horne, L.K., **Hall, M.C.,** Kress, K.K., DeLuca, K.R., Carusi, O.R., Volberding, L.D., Voller, M.E., Embury, C.M., Johnson, C.M., May-Weeks, P.E., & Wilson, T.W. (under review). Altered oscillations in cortical attention systems predict cognitive deficits in Alzheimer's disease.

MANUSCRIPTS IN-PREPARATION

*Contributed equally

6. *Rempe, M.P., *Voller, M.E., Garrison, G.M., Glesinger, R., Horne, L.K., **Hall, M.C.,** Petts, A.J., Kress, K.A., Carusi, O.R., Volberding, L.V., DeLuca, K.R., John, J.A., Springer, S.D., Embury, C.M., Johnson, C.M., May-Weeks, P.E., Spooner, R.K., & Wilson, T.W. (in-prep). Glycemic variability is differentially related to spontaneous cortical activity in patients on the Alzheimer's disease spectrum.

5. ***Hall, M.C.,** *May-Weeks, P.E., Rempe, M.P., Picci, G., Johnson, H.J., Schantell, M., Okelberry, H.J., Bashford, S., Glesinger, R.J., Horne, L.K., Rice, D.L., John, J.A., Coutant, A.T., Garrison, G.M., Kress, K.A., & Wilson, T.W. (in-prep). The interaction of hippocampal subfield volume and age on cognitive performance in healthy adults.

4. ***Hall, M.C.,** *Arif, Y., Rempe, M.P., Petro, N.M., Okelberry, H.J., John, J.A., Garrison, G.M., Kress, K.A., McDonald, K.M., Picci, G., & Wilson, T.W. (in-prep). High-definition transcranial direct current stimulation (HD-tDCS) of the left primary motor cortices upregulates resting alpha power in the primary motor and association cortices in young compared to older adults.

3. **Hall, M.C.,** Rempe, M.P., Glesinger, R.J., John, J.A., Garrison, G.A., Casagrande, C.C., Petro, N.M., Picci, G., Spooner, R.K., & Wilson, T.W. (in-prep). Structure-function coupling in the hippocampus during semantic processing.

2. McDonald, K.M., Bai, H., **Hall, M.C.,** John, J.A., Morrow, L.T., Reinke, D.M., Webert, L.K., Glesinger, R.J., Rempe, M.P., Okelberry, H.J., DeLuca, K.R., Johnson, H.J., Horne, L.K., Willett, M.P., Garrison, G.M., Rice, D.L., Coutant, A.T., Kress, K.A., Bashford, S., Spooner, R.K., Picci, G., & Wilson, T.W. (in-prep). HIV-related atrophy of amygdala subnuclei volume and its associations with clinical disease metrics.

1. Bai, H., Picci, G., Ende, G.C., Rice, D.L., John, J.A., Coutant, A.T., Steiner, E.L., **Hall, M.C.,** Bashford, S., Glesinger, R.J., Okelberry, H.J., & Wilson, T.W. (in-prep). The impact of sex and socioeconomic disparities on hippocampal and amygdala subregion development during childhood.

HONORS AND SCHOLARSHIPS

APA Society Convention Research Award - $300 **Aug. 2022**
- *Psi Chi, the International Honor Society in Psychology and the APA Committee on Associate and Baccalaureate Education (CABE)*

Division 52 Student Member APA Convention Registration Award - $100 **Apr. 2022**
- *APA Division 52 Student Committee*

Nominated to Present Research for Oral Presentation Award - $250 **Aug. 2021**
- *Translational Genomics Research Institute, a part of City of Hope and the Helios Education Foundation*

Nominated for Research/Internship Gold Standard Award **May 2020**
- *Barrett, the Honors College at Arizona State University*

Dean's List **Dec. 2018-May 2022**
- *Arizona State University*

New American University Provost's Scholarship – Partial Tuition Remission **Aug. 2018**
- *Arizona State University*

CONFERENCE SYMPOSIA, TALKS, AND DISCUSSIONS

4. **Hall, M.C.** (2025, August). Systems theory in undergraduate psychology. In L. Dryjanska (Chair). *Transformative teaching about social justice issues: examples and reflections*. [Symposium]. Symposium presented at the American Psychological Association, Denver, CO.

3. Wan Isa, W.I., **Hall, M.,** & Easterling, A. (2024, June). *Culturally competent mental health support for Southeast Asia (SEA) and SEA immigrants*. [Co-led conference discussion and abstract]. Conference discussion at the Society for the Improvement of Psychological Science, Virtual.

2. **Hall, M.C.** (2023, March). COVID-19 highlights international health disparities. In H.R. Searight (Chair). *COVID-19 halts international progress on the United Nations' Sustainable Development Goals*. [Symposium]. Symposium presented at the fifth Benjamin V. Cohen Peace Conference, Virtual.

1. **Hall, M.C.**, Hutchins, E., Alsop, E., Reiman, R., Bilagody, C., Pilade, J., & Van Keuren-Jensen, K. (2021, August). *The hidden transcriptome in cerebrospinal fluid and an exploration of its role in Parkinson's disease*. [Oral presentation and abstract]. Oral presentation presented at the Helios Scholars Intern Symposium, Phoenix, AZ.

POSTER PRESENTATIONS

10. **Hall, M.C.** (To be presented). Training the next generation: clinical neuropsychology training for post-baccalaureate researchers in a neuroscientific context. In P. May-Weeks (Chair). *The future of neuropsychology: global inclusion and collaboration*. [Poster Symposium]. Poster to be presented at the International Neuropsychological Society, Philadelphia, PA.

9. **Hall, M.C.,** Picci, G., Rempe, M.P., John, A.J., Webert, L.K., Okelberry, H.J., Horne, L.K., Willett, M.P., Glesinger, R.J., Rice, D.L., Coutant, A.T., Kress, K.A., Garrison, G.M., Bashford, S., Spooner, R.K., & Wilson, T.W. (To be presented). *Evidence for age- and sex-related changes in MoCA scores and hippocampal subfield volume during healthy aging*. [Conference poster and abstract]. Poster to be presented at the International Neuropsychological Society, Philadelphia, PA.

8. **Hall, M.C.,** Rempe, M.P., Picci, G., Johnson, H.J., Schantell, M., Okelberry, H.J., Bashford, S., Glesinger, R.J., Horne, L.K., Rice, D.L., John, J.A., Coutant, A.T., Garrison, G.M., Kress, K.A., May-Weeks, P.E. & Wilson, T.W. (2025, August). *The interaction of hippocampal subregion volume and age on cognitive functioning in healthy adults*. [Conference poster and abstract]. Poster session presented at the American Psychological Association, Denver, CO.

7. **Hall, M.C.,** Rempe, M.P., Picci, G., Embury, C.M., Casagrande, C.C., Arif, Y., Schantell, M., Bashford, S., Garrison, G.M., Glesinger, R.J., Okelberry, H.J., Petts, A.J., Keifer, E.L., May-Weeks, P.E., Heinrichs-Graham, E., Spooner, R.K., & Wilson, T.W. (2025, February). *Theta activity associated with verbal fluency above and beyond hippocampal volume*. [Conference poster and abstract]. Poster session presented at the International Neuropsychological Society, New Orleans, LA.

6. **Hall, M.C.,** Rempe, M.P., Embury, C.M., Casagrande, C.C., Arif, Y., Schantell, M., Bashford, S., Garrison, G.M., Glesinger, R.J., Okelberry, H.J., Petts, A.J., Keifer, E.L., Picci, G., May-Weeks, P.E., Heinrichs-Graham, E., & Wilson, T.W. (2025, February). *Verbal fluency changes with age and is mediated by conditional oscillatory differences in the left perisylvian*. [Conference poster and abstract]. Poster session presented at the International Neuropsychological Society, New Orleans, LA.

5. **Hall, M.C.,** Rempe, M.P., Embury, C.M., Casagrande, C.C., Arif, Y., Schantell, M., Bashford, S., Garrison, G.M., Glesinger, R.J., Okelberry, H.J., Petts, A.J., Keifer, E.L., Picci, G., Spooner, R.K., May-Weeks, P.E., Heinrichs-Graham, E., & Wilson, T.W. (2024, November). *Verbal fluency changes with age and theta-gamma phase-amplitude coupling*. [Conference poster and abstract]. Poster session presented at the National Academy of Neuropsychology, Austin, TX. https://doi.org/10.1093/arclin/acae067.104

4. **Hall, M.C.,** Hutchins, E., Bilagody. C., Reiman, R., Antone, J., Logemann, A., Cox, L., Palomares, D.M., Bitzah-Ray, F., & Van Keuren-Jensen, K. (2022, November). *An investigation into transposable elements in the transcriptomes of patients diagnosed with neurodegenerative disease and healthy controls in urine and plasma*. [Conference poster and abstract]. Poster session presented at the fifty-first annual convention of the Society for Neuroscience, San Diego, CA, United States.

3. **Hall, M.C.**, McMichael, S.L., Dryjanska, L., & Kwan, V.S.Y. (2022, August). *Effects of a brief exposure to nature or social media*. [Conference poster and abstract]. Poster session presented at the one-hundred and thirtieth annual convention of the American Psychological Association, Minneapolis, MN, United States.

2. **Hall, M.C.**, Hutchins, E., Alsop, E., Reiman, R., Bilagody, C., Pilade, J., & Van Keuren-Jensen, K. (2021, August). *The hidden transcriptome in cerebrospinal fluid and an exploration of its role in Parkinson's disease*. [Conference poster and abstract]. Poster session presented at the Helios Scholars Intern Symposium, Phoenix, AZ.

1. **Hall, M.C.**, McMichael, S.L. & Kwan, V.S.Y. (2021, February). *Familism maintains hope despite loss of relatedness to the future self during the COVID-19 pandemic*. [Conference poster and abstract]. Poster session presented at the twenty-second annual convention of the Society for Personality and Social Psychology, Virtual.

RESEARCH EXPERIENCE

The Dynamic Imaging of Cognition and Neuromodulation Laboratory (DICoN) **Omaha, NE**
The Institute for Human Neuroscience at Boys Town National Research Hospital
Supervisors: Dr. Tony Wilson, Dr. Maggie Rempe
Located in the Institute for Human Neuroscience, the DICoN Lab is focused on the use of magnetoencephalography (MEG) for neuroimaging in cognitive aging including HIV/HAND and AD/MCI
Research Assistant I *Oct. 2023-Present*

- Mentor research assistants in the process of structural MRI processing, data analysis, writing, and presenting their research
- Use statistical models including moderation analyses, linear mixed effects models, exploratory factor analyses, hierarchical regression, linear regression, structural equation modeling (SEM), virtual sensor analyses, and piecewise regression to analyze hippocampal subfield volumes, MEG data, inflammatory markers, and neuropsychological test scores
- Preprocess and coregister over 150 MEG and MRI scans using Brain Electrical Source Analysis (BESA) Software and MATLAB
- Create time-frequency spectrograms to represent neural oscillatory activity and completed whole-brain t-tests, correlations, and linear mixed-effects models using MATLAB
- Complete data visualization using R, Excel, MRIcroGL and PowerPoint to represent whole-brain analyses, violin plots, timeseries graphs, and line graphs
- Write MATLAB scripts to automatically rename and reorganize files in their correct folder locations and for use in whole-brain analysis for subtracting, averaging, and running whole-brain linear mixed effects models with GIFTI files for use in Brainstorm and Statistical Parametric Mapping (SPM)

- Complete quality checks for over 400 high-resolution T1-weighted and T2-weighted MRIs and utilize FreeSurfer's automated pipeline, including hippocampal and amygdala subfield segmentation in order to gain precise information about hippocampal subfield volume
- Create formal teaching documents for future researchers to complete quality-checking of MRIs and subfield segmentation in Freesurfer

Translational Genomics Research Institute (TGen), a part of City of Hope **Phoenix, AZ**
Supervisors: Dr. Kendall Van-Keuren Jensen, Dr. Eric Alsop, Dr. Elizabeth Hutchins
Previously located in the Neurogenomics department at TGen (now at the National Institutes of Health), this lab was focused on the characterization of RNA-seq across different biofluids, extracellular vesicles, and determining potential biomarkers for neurological disease using RNA in accessible biofluids
Associate Bioinformatician *Jun. 2022-Aug. 2023*
- Analyzed long and smallRNA in various biofluids, such as plasma, urine, and cerebrospinal fluid, and in tissue samples from patients diagnosed with psychiatric/neurological diseases, including schizophrenia, AD/MCI, and Parkinson's disease (PD) in the format of heatmaps, stacked barplots, volcano plots, upset plots, waterfall graphs, PCA plots, and many other graphs
- Improved a bioinformatics pipeline through the addition of deeptools, umitools, and cutadapt functions which were previously utilized manually
- Compiled metadata from cognitive assessments for a dataset that includes patients diagnosed with AD/MCI, PD, ALS, FTD, and healthy controls

Bioinformatics Intern *Aug. 2021-Jun. 2022*
- Coded the force of hits on football players' helmets for a collaborators' dataset
- Utilized UpSetR to create upset plots of transposable elements across different kits used to test water controls
- Uploaded data from healthy tissue samples to an open-source repository for exRNA to increase access to biological sample information for researchers
- Helped integrate two existing pipelines that use Jinja2 and slurm via jetstream to facilitate data processing and analysis
- Made heatmaps using z-scores using ComplexHeatmap to better illustrate findings from DESeq2 in both small RNA and bulk RNA

Helios Scholar *Jun. 2021-Aug. 2021*
- Utilized existing GitHub repositories to create a pipeline that would run via jetstream with Jinja2 templates
- Used shell-scripting in BASH to navigate between computer nodes and submit jobs via slurm
- Conducted data analysis, mainly using DESeq2 from Bioconductor in R to complete biostatistical analyses of transposable elements
- Utilized pheatmap, EnhancedVolcano, ggplot2, and others to create graphs of transposable elements with R programming

Culture and Decision Science Network Laboratory, **Tempe, AZ**
Arizona State University
Supervisors: Dr. Virginia Kwan, Samantha McMichael, Dr. Cameron Bunker
Dr. Kwan's lab focuses on personality characteristics and interventions, cyberpsychology, and characteristics of personality applied to the temporal self; one of their major projects is the "Me in 10" project, a longitudinal study of Arizona State University students who began as freshmen in 2016; the study is gathering data on how youth view their future and how this impacts their current academic performance and mental health
Research Assistant *Sep. 2019-Apr. 2022*
- Coded qualitative statements written by students to themselves ten years in the future, specifically on how vivid their depiction of their future is, resulting in further progress in research for a graduate student's thesis
- Utilized SPSS Statistics for correlation tables, moderation analyses, and ANOVA
- Led the development of an experimental design, data collection, analysis, and writing for an independent thesis

CLINICAL EXPERIENCE

The Dynamic Imaging of Cognition and Neuromodulation Laboratory (DICoN) **Omaha, NE**
The Institute for Human Neuroscience at Boys Town National Research Hospital

Supervisors: Dr. Tony Wilson, Dr. Maggie Rempe
Located in the Institute for Human Neuroscience, the DICoN Lab is focused on the use of magnetoencephalography (MEG) for neuroimaging in cognitive aging including HIV/HAND and AD/MCI
Research Assistant I *Oct. 2023-Present*

- Conduct and score 43 full neuropsychological assessments for a total of 121 hours combined, including the WRAT4 – Word Reading, Logical Memory, Brief Visuospatial Memory Test - Revised (BVMT-R), Stroop, Digit Span (forward, backward, and sequence), Grooved Pegboard, COWAT FAS and Animals, Letter Number Sequencing, Trail-Making Tests A and B, Hopkins Verbal Learning Test – Revised (HVLT-R), and Boston Naming Test
- Check and/or oversaw 13 additional neuropsychological assessments for a total of 18 hours
- Conduct 19 full consents during which participants were guided through the process of joining an ongoing NIH funded R01 study
- Interact with AD/MCI, PD, and HIV patients and substance users (methamphetamine and/or cannabis) as part of NIH funded research studies
- Shadow nine full neuropsychological assessments, including two for diagnostic purposes led by a professional clinical neuropsychologist
- Shadow two Mini-Mental State Examination (MMSE) administrations and conducted one MMSE
- Obtain online certification to conduct the Montreal Cognitive Assessment (MoCA)
- Conduct three MoCAs

The Trevor Project **Virtual**
Volunteer Counselor *Aug. 2023 – Present*

- Complete 10 weeks of training on engaging with LGBTQ+ youth, including suicidal ideation, self-harm, and harm reduction, and completed additional training as needed
- Speak with youth via text/chat and completed case records for 3 hours per week, totaling 232 hours thus far
- Document 243 case records detailing information about chats and completed 130 assessments for suicide risk
- Work collaboratively with youth who reached out to create a safety plan in case of suicidal ideation, for a total of 17 safety plans
- Collaborate with licensed counselors on child abuse, suicidal, and violent intent cases

PRESENTED BY OTHERS

11. Carusi, O.R., **Hall, M.C.,** John, J.A., McDonald, K.M., Morrow, L.M., Reinke, D., Bai, H., Webert, L.K., Garrison, G.M., Okelberry, H.J., Johnson, H.J., Horne, L.K., Glesiner, R.J., Rice, D.L., Coutant, A.T., May-Weeks, P., & Wilson, T.W. (To be presented). *Reductions in hippocampal subfield volumes are associated with increased anxiety and cognitive deficits in regular cannabis users*. [Conference poster and abstract]. Poster session to be presented at the Society of Biological Psychiatry, New York City, NY.

10. Huang, P.J., Arif, Y., Schantell, M., Glesinger, R., Horne, L.K., Coutant, A.T., Okelberry, H.J., Ende, G., Garrison, G.M., De Luca, K.R., Carusi, O.R., **Hall, M.C.,** Volberding, L.D., Voller, M.E., John, J.A., & Wilson, T.W. (To be presented). *Substance-related visual cues alter sensory gating in chronic methamphetamine users*. [Conference poster and abstract]. Poster session to be presented at the Society of Biological Psychiatry, New York City, NY.

9. Volberding, L.D., **Hall, M.C.,** John, J.A., Bai, H., McDonald, K.M., Morrow, L.T., Reinke, D.M., Webert, L.K., Glesinger, R.J., Rempe, M.P., Okelberry, H.J., Johnson, H.J., Horne, L.K., Willett, M.P., Garrison, G.M., Rice, D.L., Coutant, A.T., Kress, K.A., Bashford, S., Spooner, R.K., May-Weeks, P.E., Picci, G., & Wilson, T.W. (2026, February). *People with HIV exhibit reductions in hippocampal subfields and cognitive function.* [Conference poster and abstract]. Poster session presented at the International Neuropsychological Society, Philadelphia, PA.

8. Rader, L., Wagner, L., Amir, C., Dobler, Z., Hogan, A., **Hall, M.,** Gryshyna, A., Lim, K.Y., & Peris-Yague, A. (2024, April). *Knowing Neurons*. [Conference poster and abstract]. Poster session presented at the National Science Policy Symposium, Riverside, CA.

7. Wagner, L., Amir, C., Hogan, A., **Hall, M.**, Gryshyna, A., & Lim, K.Y. (2023, November). *Knowing Neurons: A creative neuroscience education and outreach organization by young neuroscientists*. [Conference poster and abstract]. Poster session presented at the fifty-second annual convention of the Society for Neuroscience, Washington, DC.

6. Abbasi, A., Hutchins, E., Meechoovet, B., **Hall, M.**, Garcia-Mansfield, K., Soriano, A., Calmelat, R., Ferguson, C., Jensen, K., Pirrotte, P., Porszasz, J., Casaburi, R., Stringer, W., & Rossiter, H. (2023, September). *Greater enrichment of biological pathways in circulating extracellular vesicles of controls than COPD following exercise*. [Conference poster and abstract]. Poster session presented at the European Respiratory Society International Congress, Milan, Italy. https://doi.org/10.1183/13993003.congress-2023.PA2273

5. Hutchins, E., Reiman, R., Palade, J., Meechovet, B., Bilagody, C., **Hall, M**., Frasier, M., Casey, B., & Van Keuren-Jensen, K. (2023, May). *Assessment of long RNAs in CSF and plasma from healthy donors or individuals with Parkinson's disease*. [Oral presentation and abstract]. Oral presentation presented at the International Society for Extracellular Vesicles, Seattle, WA.

4. Hutchins, E., Reiman, R., Bilagody, C., Antone, J., Meechovet, B., Palomares, D.M., **Hall, M.**, & Van Keuren-Jensen, K. (2023, May). *Characterization of mRNA, lncRNA, and circRNA in plasma and urine from participants with Alzheimer's disease, Parkinson's disease, and healthy controls*. [Oral presentation and abstract]. Oral presentation presented at the International Society for Extracellular Vesicles, Seattle, WA.

3. Dryjanska, L., & **Hall, M.C.** (2021, July). Addressing healthcare in the face of death and dying: Snapshots from ten countries. In L. Dryjanska (Chair). *Ethical dilemmas and health care across the most affected countries during the COVID-19 pandemic*. [Symposium]. Symposium presented at the thirty-second International Congress of Psychology, Virtual.

2. Rami, F., & **Hall, M.C.** (2021, July). A multi-country analysis of the impact of COVID-19. In L. Dryjanska (Chair). *Ethical dilemmas and health care across the most affected countries during the COVID-19 pandemic*. [Symposium]. Symposium presented at the thirty-second International Congress of Psychology, Virtual.

1. Battista, P., & **Hall, M.C.** (2021, July). The mental health impact of the COVID-19 pandemic: A multi-country analysis. In L. Dryjanska (Chair). *Ethical dilemmas and health care across the most affected countries during the COVID-19 pandemic*. [Symposium]. Symposium presented at the thirty-second International Congress of Psychology, Virtual.

ORGANIZATIONAL AFFILIATIONS

International Neuropsychological Society
Student Member *Jan. 2025-Present*

Psi Chi, the International Honors Society in Psychology
Member *Dec. 2020-Present*
Director of Community Outreach for Psi Chi at Arizona State University *May 2021-May 2022*

- Took charge of planning service events for Psi Chi at Arizona State University
- In light of the COVID-19 pandemic, purposefully planned both in-person and virtual service events to improve accessibility
- Worked with other members of the Psi Chi Board to create budgets for events and make events known via newsletters and social media

American Psychological Association
Division 52: Society for Global Psychology Advocacy Committee *Mar. 2024-Present*

- Create goals for the newly created advocacy committee for Division 52
- Write a statement on the 2024 election in support of global communities
- Aid in writing a scientific article on human trafficking and the sustainable development goals

Student Member *Apr. 2019-Present*

- Review submissions for the Student International Research Award and Anastasi Research Award to provide funding for students working on projects that are internationally focused
- Review submissions for the 2023 Division 45 student conference

Division 52: Society for Global Psychology Handbook Committee *Dec. 2023-May 2024*

- Compiled information on various positions within APA Division 52 to form a new handbook meant to aid new leadership in the Division
- Interviewed current and past APA Division 52 leadership to gather more accurate information

Division 52: COVID-19 Taskforce *Apr. 2019-Mar. 2023*

- Coded articles on COVID-19 and mental health from 30 countries for a literature review to increase advocacy and awareness of mental health worldwide in reaction to COVID-19; this research was utilized in the format of a symposium, research paper, and book

SCIENCE COMMUNICATIONS

Google Scholar, ResearchGate, GitHub, LinkedIn, Website, Twitter, Bluesky, Mastodon

Knowing Neurons **Virtual**

Website Team Member *Feb. 2025 – Present*

- Format and post blog articles on the Knowing Neurons website as needed
- Aid in the transition as another team member took over as Chief Website Manager
- Engage with technical support and cybersecurity for the website as needed

Chief Website Manager *Jun. 2023 – Feb. 2025*

- Trained a current website team member to take over the role of Chief Website Manager
- Helped with the integration of translated webpages in multiple languages
- Consistently updated and maintained WordPress versions and plugins
- Created updated training videos on how to use WordPress and format articles
- Implemented a more organized way of collaborating on many different projects within the Website Team
- Cleaned the website database and transitioned the website to a different hosting provider for a lower cost and improved site speed
- Interviewed and onboarded five new website team members
- Worked with the Fundraising Team and CEO to draft a cookie and privacy policy for compliance with EU guidelines
- Created a popup feedback form for understanding what posts our target audience was most interested in reading in the future
- Wrote a blog post plainly explaining magnetoencephalography as a type of neuroimaging (available here: https://knowingneurons.com/blog/2024/09/24/meg-neurosurgery/)
- Spoke about magnetoencephalography and neuroscience on the Knowing Neurons Podcast (available here: https://open.spotify.com/episode/7891taUFGIU7YjGOd2iMgN?si=ac7ef43c9dc9431f)

Website Team Member *Mar. 2023 – Jun. 2023*

- Removed unnecessary plugins
- Added a hamburger menu and made certain blocks visible only on certain screen sizes to improve the user design experience and move towards responsive design
- Increased the visibility of the "Language" menu through flag icons
- Reorganized certain pages to improve navigability and accessibility

Letters to a Pre-Scientist **Virtual**

STEM Pen Pal *Jul. 2022 – May 2023; Oct. 2024 – May 2025*

- Utilized science communication skills including using interesting visuals and simple language to plainly communicate about neuroscience research with a "pre-scientist" in middle or high school
- Specifically, exchanged four letters with a matched pre-scientist for each year of involvement

COMMUNITY SERVICE

The Dynamic Imaging of Cognition and Neuromodulation Laboratory (DICoN) **Omaha, NE**
The Institute for Human Neuroscience at Boys Town National Research Hospital
Supervisors: Dr. Tony Wilson, Dr. Maggie Rempe
Located in the Institute for Human Neuroscience, the DICoN Lab is focused on the use of magnetoencephalography (MEG) for neuroimaging in cognitive aging including HIV/HAND and AD/MCI

Research Assistant I *Oct. 2023-Present*

- Set up for and table at the annual Walk to End Alzheimer's event in 2025
- Aid in tabling and teaching at various outreach events in the broader community to help inform and engage with the public about neuroscience and to recruit more diverse participants
- Volunteer at and attended the annual Walk to End Alzheimer's event
- Provide support for educating older adults about the brain at the Intercultural Senior Center

The Adolescent Health Project; Women's Fund of Omaha **Omaha, NE**

Youth Advisory Committee Member *Apr. 2024 – Aug. 2025*

- Aided in planning a youth leadership summit to bring together youth community members

Volunteer Coresearcher *Aug. 2024 – Mar. 2024*

- Collaborated with others to design a photovoice project that would assess the barriers to obtaining sexual healthcare in Omaha and what could be done to improve access to sexual health services
- Assisted in facilitating four group interviews about sexual health access in the Omaha area
- Coded qualitative data from interviews and photos

Psychin' Out **Virtual**

Conference Volunteer *Jul. 2023*

- Drafted and edited emails to inform participants and presenters about the Psych for Peace and Justice conference
- Created virtual backgrounds in Canva to help make conference moderators and presenters apparent
- Facilitated communication and gathered materials from two presenters
- Moderated two conference sessions

Next Generation Service Corps at Arizona State University **Tempe, AZ**

Member *Aug. 2018-May 2022*

- Attended seminars and classes designed to improve leadership and thinking across the public, private, and non-profit sectors

Member of the Disabilities and Empowerment Committee *Aug. 2018-May 2022*

- Created disability advocacy fliers using Canva to increase disability awareness
- Attended service events and learned about disability awareness and advocacy, resulting in growth of my own knowledge of disability awareness and accessibility

Mentor Coordinator *May 2021-Dec. 2021*

- Sorted Mentors and Mentees and matched them based on their major, campus, interests, etc., resulting in better mentor/mentee relationships
- Created email templates that could be utilized each year to send information to mentors
- Communicated with mentors and mentees to facilitate their relationships

Disability Awareness and Advocacy Committee at Arizona State University **Tempe, AZ**

Co-Chair *Aug. 2018-May 2019*

- Organized documents in a Google Drive, resulting in better organization of the committee's resources
- Created a Google Form to ask about disability stigma, resulting in more awareness of issues on-campus
- Acted as a go-between for Undergraduate Student Government, resulting in further advocacy of the Disability Resource Center's programs for students with disabilities

TECHNICAL SKILLS

Proficient: Canva Graphic Design; IBM SPSS Statistics; Qualtrics Surveys; Slurm Workload Manager; BASH/Shell scripting; MRICroGL; the following R (Programming) packages: tidyverse, dplyr, ggplot2, ggpubr, pheatmap, EnhancedVolcano, corrplot, mediation, ggnewscale, stats, apaTables, segmented, qvalue, nlme, psych

Intermediate: the following R (Programming) packages: ComplexHeatmap, UpSetR, DESeq2, lme4, lavaan; Git/GitHub; HTML; CSS; WordPress; MATLAB; BESA Software Suite; Freesurfer

CERTIFICATIONS

- Human Subjects Social Sciences (Group 2) and Biomedical Sciences (Group 1) Certification
- Conflict of Interest Certification

- CPR/AED Certification
- MoCA Administration Certification

AUDITED GRADUATE COURSEWORK

- PHR 721: Systems Neuroscience (Creighton University)
- PHR 722: Theories & Advancements in Developmental Cognitive Neuroscience (Creighton University)
- PSYC 9010: Statistical Methods I (University of Nebraska – Omaha)
- PSYC 9020: Statistical Methods II (University of Nebraska – Omaha)
- PHR 720: Fundamentals of Brain Imaging, Recording, and Stimulation (Creighton University, in-progress)