

Curriculum Vitae

(08/01/2025)

Matthew T. Hyland

EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg, VA, May 2019

Bachelor of science in neuroscience

Bachelor of science in psychology

Cumulative GPA: 3.93

University of Houston, Houston, TX, August 2023-Present

Clinical Psychology Doctoral Student – Neuropsychology

Cumulative GPA: 3.918

REFERENCES

Elena Grigorenko, Ph.D.

University of Houston

Health & Biomedical Sciences Building 1

(713) 743-0595

elena.grigorenko@times.uh.edu

Bethany Williams, Ph.D.

UTHealth Neurosciences

1941 East Road, Suite 4358

(713) 486-0506

bethany.r.williams@uth.tmc.edu

Dave Curtis, Ph.D.

UH Health Family Care Center

4349 Martin Luther King Blvd

(713) 743-9490

dfcurtis@central.uh.edu

CLINICAL EXPERIENCE

Practicum student, University of Houston Family Care Center, August 2024-Present

University of Houston

Supervisor: Dave Curtis, Ph.D.

Focus on Family STARS behavioral therapy for children with ADHD and disruptive behavior. Additional exposure to and experience with cognitive behavioral therapy for adolescents and adults.

Practicum student, Southern Smoke Foundation – Behind You Program, October 2024-Present
University of Houston

Supervisor: Carla Sharp, Ph.D; Gerald Harris Ph.D.

Focus on cognitive behavioral therapy and mentalization-based therapy for adults with mood disorders.

Practicum student, UTHealth Houston Neurosciences Neurocognitive Disorders Center, August 2024-Present

UTHealth Houston

Supervisor: Bethany Williams, Ph.D; Kendra Anderson, Ph.D.

Neuropsychological assessment for adults with neurocognitive disorders including MCI, dementia, stroke, TBI, etc.

RESEARCH EXPERIENCE

Research Assistant, GENES:IS Laboratory, Department of Psychology, August 2023-Present
University of Houston

Principal Investigator: Elena Grigorenko, Ph.D.

Studying behavioral and biological predictors of performance in adults. Administration of behavioral paradigms in a virtual reality environment, biometric measurements, and electroencephalograph (EEG). Investigating neural synchrony using functional near-infrared spectroscopy (fNIRS) and its effect on recall of learned material in middle schoolers who speak English as a second language.

Lab Manager and Research Assistant, Center for Behavioral Teratology, 2019-2023
San Diego State University

Principal Investigator: Sarah Mattson, Ph.D.

Studying the effects of prenatal alcohol exposure on neurobehavioral performance in children and differentiation of FASD diagnoses. Administration of neuropsychological assessments. Creation and management of novel online neurobehavioral tools. Managing data and day to day operations of the laboratory. Managing the activities of undergraduate research assistants.

Undergraduate Research Assistant, Department of Psychology, 2019

Virginia Polytechnic Institute and State University

Principal Investigator: Dave Harrison, Ph.D.

Studying frontal lobe capacity to regulate stress in trauma victims. Data entry for EEG and self-report questionnaires.

Undergraduate Research Assistant, Department of Neuroscience, 2017-2019

Virginia Polytechnic Institute and State University

Principal Investigator: Sarah Clinton, Ph.D.

Investigating the neurobiological consequences of prenatal SSRI exposure and alcohol exposure in rats, effects of the microbiome on depression- and anxiety-like behavior in a depressive-like model. Involved in animal husbandry, behavioral testing, tissue collection and processing, and data entry and analysis.

FUNDED GRANTS

1. Neural synchrony during learning and academic achievement outcomes in middle school
Funding Agency: University of Houston Small Grants Program
PI: Elena Grigorenko
Award Dates: March 2025-September 2026
Amount Awarded: \$9,999
Role: Co-Investigator

BOOK CHAPTER PUBLICATIONS

1. **Hyland, M.T.**, Courchesne-Krak, N. S., Sobolewski, C.M., Zambrano, B.A., and Mattson, S.N. (2022). Fetal Alcohol Spectrum Disorder: Neuropsychological Outcomes Across the Lifespan. In O. Rahman, C. Petrenko (Eds.), *Fetal Alcohol Spectrum Disorders: A Multidisciplinary Approach*. Springer, doi:10.1007/978-3-031-32386-7.

PEER REVIEWED PUBLICATIONS

1. Ledesma, L.M., **Hyland, M.T.**, Chinn, L.K., Blacker, K.J., McHail, D.G., Grigorenko, E.L. (2025). Response Inhibition and Working Memory in Virtual Reality: Behavioral and Event-Related Potential Effects of Stress in a Military Sample, *Military Medicine*. usaf224, <https://doi.org/10.1093/milmed/usaf224>
2. Krause, C. A., Escamilla, K. J., **Hyland, M. T.**, Gonzalez, A. S., Woods, S. P., Cirino, P. T., Williams, M. W., & Medina, L. D. (2025). An Initial Review of Doctoral Clinical Neuropsychology Coursework Syllabi: Common Trends and Core Competencies. *Journal of Clinical and Experimental Neuropsychology*, ePub ahead of print. <https://doi.org/10.1080/13803395.2025.2494650>
3. Felicicchia, R.J., **Hyland, M.T.**, Roesch, S.C., and Mattson, S.M. (2025). Identifying Family Environment Profiles in Families of Children with Prenatal Alcohol Exposure. *Alcohol: Clinical and Experimental Research*. In Press.
4. Veziris, C.R., **Hyland, M.T.**, Kable, J.A., Wozniak, J.R., Coles, C.D., May, P.A., Kalberg, W.O., Sowell, E.R., Jones, K.L., Riley, E.P., and Mattson, S.N. (2024). Validation of the ND-PAE Diagnosis in Children with Heavy Prenatal Alcohol Exposure. *Child Psychiatry & Human Development*, 10.1007/s10578-024-01740-z. Advance online publication. <https://doi.org/10.1007/s10578-024-01740-z>
5. Sobolewski, C.M., Courchesne-Krak, N.S., **Hyland, M.T.**, Bernes, G.A., Veziris, C.R., Wozniak, J.R., Mattson, S.N., & the CIFASD (2024). Adaptive, Externalizing, and Internalizing Behavior of Children with Prenatal Alcohol Exposure: A Comparison of Three Parent-Report Questionnaires. *Developmental Neuropsychology*, in press. doi: 10.1080/87565641.2024.2351796

6. **Hyland, M.T.**, Courchesne, N.S., Bernes, G.A., Wozniak, J.R., Jones, K.L., Del Campo, M., Boys, C.J., Riley, E.P., Mattson, S.N., & the CIFASD (2023). Results of an FASD Screening Tool are Associated with Neuropsychological and Behavioral Measures. *Alcoholism, clinical and experimental research*. 47(8), 1560–1569.
<https://doi.org/10.1111/acer.15133>
7. Mattson, S.N., Jones, K.L., Chockalingam, G., Wozniak, J.R., **Hyland, M.T.**, Courchesne, N.S., Del Campo, M., Riley, E.P., & the CIFASD (2023). Validation of the FASD-Tree as a Screening Tool for Fetal Alcohol Spectrum Disorders. *Alcoholism: Clinical and Experimental Research*. *Alcoholism, clinical and experimental research*, 47(2), 263-272.
8. Bernes, G.A., Courchesne-Krak, N.S., **Hyland, M.T.**, Villodas, M.T., Coles, C.D., Kable, J.A., May, P.A., Kalberg, W.O., Sowell, E.R., Wozniak, J.R., Jones, K.L., Riley, E.P., Mattson, S.N. & the CIFASD (2021). Development and Validation of a Postnatal Risk Score that Identifies Children with Prenatal Alcohol Exposure. *Alcoholism, clinical and experimental research*, 46(1), 52-65.
9. Glover, M.E., Cohen, J.L., Singer, J.R., Sabbagh, M.N., Rainville, J.R., **Hyland, M.T.**, Morrow, C.D., Weaver, C.T., Hodes, G.E., Kerman, I.A., and Clinton, S.M. (2021). Examining the Role of Microbiota in Emotional Behavior: Antibiotic Treatment Exacerbates Anxiety in High Anxiety-Prone Male Rats. *Neuroscience*, 459, 179-197.

MANUSCRIPTS UNDER REVIEW

1. **Hyland, M.T.**, Crabb, K., Amarneh, D.Y. (Submitted). Mechanisms and modifying factors affecting the impact of adverse childhood experiences on executive function. *Modern Foreign Psychology*.

MANUSCRIPTS IN PREPARATION

1. **Hyland, M.**, Manning, D., Arredondo, V., Ramos, R., Kanamarlapudi, H., Grigorenko, E. Assessment of Academic Skills via Multimodal Imaging Techniques. *Journal TBD*.
2. **Hyland, M.**, Chinn, L., Grigorenko, E. Effects of Early Institutional Care on Attention in Adulthood. *Journal TBD*.
3. Felicicchia, R.J., Roesch, S., **Hyland, M.T.**, and Mattson, S.M. Differences in the Family Environment in Children with Prenatal Alcohol Exposure. *Journal TBD*.

ABSTRACTS & POSTER PRESENTATIONS

1. **Matthew Hyland**, Lisa Chinn, & Elena Grigorenko. Effects of Early Institutional Care on Attention in Adulthood. Abstract submitted to the International Neuropsychological Society Conference. February, 2025.
2. **Matthew Hyland**, Lisa Chin, Leandro Ledesma, Elena Grigorenko. Associations Between Adverse Childhood Experiences, Stress, and cognitive performance. Poster

presentation at the University of Houston Clinical Psychology Doctoral Program Research Showcase. April, 2024.

3. Leandro Ledesma, **Matthew Hyland**, Lisa Chinn, Elena Grigorenko. Validation of Virtual Reality Inhibition and Working Memory Tasks using Self Report Measures. Abstract submitted to the Military Health System Research Symposium. January, 2024.
4. Leandro Ledesma, **Matthew Hyland**, Lisa Chinn, Elena Grigorenko. Fluid Intelligence as a Predictor of Working Memory in Virtual Reality. Abstract submitted to the Military Health System Research Symposium. January, 2024.
5. Courchesne-Krak, N.S., **Hyland, M.T.**, Bernes, G.A., Krueger, A.M., Rockhold, M.N., Wozniak, J.R., Jones, K.L., Del Campo, M., Boys, C.J., Riley, E.P., Mattson, S.N., & the CIFASD. Do Parent-Reported Behavioral Concerns Moderate the Relationship Between Prenatal Alcohol Exposure and Cognitive and Behavioral Functioning in Children? Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2022.
6. Felicicchia, R.J., Courchesne, N.S., **Hyland, M.T.**, Coles, C.D., Kable, J.A., Sowell, E.R., Wozniak, J.R., May, P.A., Kalberg, W.O., Mattson, S.N., & the CIFASD. Do Family Risk Factors Moderate the Relationship Between Prenatal Alcohol Exposure and Cognitive and Behavioral Functioning in Children? Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2022.
7. Sobolewski, C.M., Courchesne, N.S., **Hyland, M.T.**, Bernes, G.A., Jahan, T., Mattson, S.N., & the CIFASD. Externalizing but not Internalizing Behavior Ratings of Youth with Prenatal Alcohol Exposure Vary Based on the Rater's Relationship to the Subject. Presented at the 48th annual Society for Advancement of Chicanos/Hispanics and Native Americans in Science National Diversity in STEM (NDiSTEM) Conference. October 2021.
8. **M.T. Hyland**, N.S. Courchesne, G.A. Bernes, J.R. Wozniak, K.L. Jones, M. Del Campo, S.N. Mattson, and the CIFASD. Validation of an Automated Decision Tree Tool for Detecting FASD Using Neuropsychological Data. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.
9. **M.T. Hyland**, N.S. Courchesne, G.A. Bernes, J.R. Wozniak, K.L. Jones, M. Del Campo, S.N. Mattson, and the CIFASD. Correlation Between Results of an Automated Decision Tree Tool for Detecting FASD and Neuropsychological Outcomes. Poster presentation at the Research Society on Alcoholism, Fetal Alcohol Spectrum Disorder Study Group. June 2021.
10. Courchesne, N. S., **Hyland, M.T.**, Bernes, G.A., Krueger, A.M., Rockhold, M.N., Wozniak, Jones, K.L., Del Campo, M., Boys, C.J., Mattson, S.N. & the CIFASD. The impact of co-occurring alcohol and other drug exposure on child neuropsychological

functioning. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.

11. Sobolewski, C. M., Courchesne, N. S., **Hyland, M. T.**, Bernes, G. A., Krueger, A. M., Rockhold, M. N., Wozniak, J. R., Jones, K. L., Del Campo, M., Boys, C. J., Mattson, S. N., & CIFASD. Adaptive, Internalizing, and Externalizing Behavior of Children with Prenatal Alcohol Exposure: A Comparison of Three Parent-Report Questionnaires. Poster presentation at the Research Society on Alcoholism Annual Scientific Meeting. June 2021.
12. Sobolewski, C.M., Courchesne, N.S., **Hyland, M.T.**, Bernes, G.A., Mattson, S.N. Differences in behavior based on IQ and prenatal alcohol exposure. Poster presentation at the Western Psychological Association Annual Convention. April 2021.
13. **M.T. Hyland**, E.E. Duprey, C.D, Chambers, S.N. Mattson, and the CIFASD. Validation of an Automated Decision Tree Tool for Detecting FASD in a Low-Risk Prevalence Sample. Abstract submitted to the Research Society on Alcoholism Annual Scientific Meeting. June 2020.
14. **Matthew Hyland**, Matthew Glover, Chelsea McCoy Asadorian, and Sarah Clinton. The Behavioral Effects of Prenatal SSRI Exposure. Poster presentation at the Virginia Tech School of Neuroscience Summer Research Poster Symposium. July 2018.
15. **Matthew Hyland**, Matthew Glover, Chelsea McCoy Asadorian, Erin Kwon, and Sarah Clinton. The effects of SSRI Exposure on Domains of Depression-Like Behavior in Rats. Poster presentation at the Virginia Tech School of Neuroscience Research Fellowship Poster Symposium. July 2017.

ACADEMIC SERVICE

Reviewed for Journal:

1. Gifted Child Quarterly, January 2024; co-review with Dr. Elena Grigorenko
2. Journal of Modern Foreign Psychology, February 2024; co-review with Dr. Elena Grigorenko
3. Applied Neuropsychology: Child, March 2024; co-review with Dr. Elena Grigorenko

ASSESSMENT TOOLS

Brief Assessment of Individual Neurobehavior (BRAIN) – online version

Listed as one of three inventors of BRAIN-online. BRAIN-online was developed as a screening tool for FASD. It incorporates a brief behavioral questionnaire and several cognitive tasks on domains known to be affected by prenatal alcohol exposure. BRAIN-online was created as an online tool that can be completed at home by families and is currently being validated.

ADDITIONAL TRAINING

Autism Diagnostic Observation Schedule, Second Edition (ADOS-2)

Trained in the clinical administration and scoring.

HONORS AND AWARDS

- McCary Psychology Scholarship (2023)
- Behavioral Neurobiology Summer Internship (2018)
- EngelNovitt Undergraduate Research Fellowship (2017)

SERVICE TO THE COMMUNITY

Alpha Phi Omega Service Fraternity, Virginia Tech, 2016-2019

APO Aims to develop leadership skills and provide services to the campus, community, and country through voluntary service projects

University of Houston Clinical Psychology Wellness Committee, 2024-Present

The mission of the Wellness Committee is to promote and support physical and mental wellbeing in graduate students of the University of Houston Clinical Psychology doctoral program.