

Curriculum Vitae

Mark Daniel Bowren Jr.

CONTACT INFORMATION

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EDUCATION

2016-Present Ph.D. Clinical Psychology (in progress), University of Iowa, Iowa City, IA

- Advisor: *Daniel Tranel, Ph.D.*
- Neuropsychology Specialization
- Expected Spring 2022
- Final Degree: Ph.D. in Clinical Psychology

2016 B.S. Psychology, Summa Cum Laude, University of Florida, Gainesville, FL

- Honor's Thesis: *Moderators, Outcomes, and Sources of Perceived Support in Childhood*
- Advisor: *Darlene Kertes, Ph.D.*

ACADEMIC HONORS

University of Iowa

2017-2018 Behavioral Biomedical Interface Training Program Graduate Fellowship, Department of Psychological and Brain Sciences

2016 Graduate College Iowa Recruitment Fellowship, Graduate College

University of Florida

2015 Travel Award, Center for Undergraduate Research

2014 Phi Beta Kappa National Honor Society

2014 Psi Chi Psychology Honor Society

2014 Anderson Scholar High Distinction, College of Liberal Arts and Sciences

2014 University Scholars Program Recipient, Center for Undergraduate Research

2013 President's Honor Roll

2013 Golden Key International Honor Society

2012 Dean's List

RESEARCH EXPERIENCE

- 2017-Present Graduate Research Assistant, Iowa Neuroimaging and Noninvasive Brain Stimulation Laboratory, Departments of Pediatrics, Neurology, and Psychiatry, University of Iowa
- Director: *Aaron Boes, M.D., Ph.D.*
 - Created a Linux bash script to calculate a voxel-wise lesion load measure to predict neurological deficits following stroke, learned how to analyze normative resting-state functional connectivity data to localize lesion-related networks among neurological patients.
- 2016-Present Graduate Research Assistant, Tranel Lab, Departments of Psychological and Brain Sciences, and Neurology, University of Iowa
- Director: *Daniel Tranel, Ph.D.*
 - Conducted voxel-wise lesion mapping analyses, wrote Linux bash scripts to manipulate brain images, traced brain lesions using FSL, analyzed neuropsychological data from the University of Iowa Neurological Patient Registry, and created DTI atlas-based measures of white matter disconnection among patients with focal brain lesions.
- 2014-2016 Undergraduate Research Assistant, VITAL Laboratory, Department of Clinical and Health Psychology, University of Florida
- Directors: *Dawn Bowers, Ph.D. and Michael Marsiske, Ph.D.*
 - Supervisor: *London Butterfield, Ph.D.*
 - Administered and scored neuropsychological tests (including tests from WAIS and WMS) to older adults as part of an intervention study on the effects of the BrainHQ training program and mindfulness-based stress reduction on cognitive abilities. Participated in bi-weekly laboratory meetings to discuss project and data management and review testing procedures.
- 2013-2016 Undergraduate Research Assistant, GEENI Laboratory, Department of Psychology, University of Florida
- Director and Supervisor: *Darlene Kertes, Ph.D.*
 - Designed and conducted independent research project to study the potential for stressful life events and gender to act as moderators of perceived support, internalizing behavior outcomes related to perceived support and gender, and potential sources of documented gender differences in perceived support among children. Managed chemical inventory for the laboratory, conducted behavioral coding,

and served as a confederate for a human-animal interaction study of biological stress markers.

- 2013 Undergraduate Research Assistant, Pediatric Psychology Laboratory, Department of Clinical and Health Psychology, University of Florida
- Supervisor: *David Janicke, Ph.D.*
 - Conducted behavioral coding using an interpersonal family interactions rating scale as part of a study investigating the role of family dynamics in childhood eating habits. Recruited participants within a medical setting.

TEACHING EXPERIENCE

- 2017 Graduate Teaching Assistant, Department of Psychological and Brain Sciences, University of Iowa
- Course Instructor: *Daniel Tranel, Ph.D.*
 - Led class lectures, contributed to test question development, and graded tests for one section of Senior Seminar in Neuropsychology.
- 2013 Undergraduate Teaching Assistant, Department of Psychology, University of Florida
- Course Instructor: *Ken Swan, Ph.D.*
 - Graded assignments and supervised a group research project for one section of Research Methods in Psychology.

PRESENTATIONS

- Germosen, Y., Pierson, M., **Bowren, M. D.**, Okerstrom, K., & Tranel, D. (July, 2018). Does value-based decision-making require emotional or cognitive intelligence? A neuropsychological approach. Poster presented at the University of Iowa Summer Undergraduate Research Conference. Iowa City, IA.
- *Bowren, M. D.**, *Croft, K. E., Reber, J., & Tranel, D. (November, 2017). Choosing spouses and houses: Impaired congruence between preference and choice following damage to the ventromedial prefrontal cortex. Poster presented at the Society for Neuroscience Meeting. Washington D.C.
- Comella, S., **Bowren, M. D.**, & Tranel, D. (July, 2017). Superior longitudinal fasciculus disconnection correlates with hemispatial inattention: A study in neurological patients with focal brain lesions. Poster presented at the University of Iowa Summer Undergraduate Research Conference. Iowa City, IA.
- Bowren, M. D.**, Barber, J., Letcher, K., Pfeifer, A., Keil, A. (May, 2015). Music and working memory: Arousal and mood interactions mediate recall performance. Poster presented at the 27th Annual Convention of the Association for Psychological Science. New York, NY.
- Bowren, M. D.**, Liu, J., Kertes, D. A. (April, 2015). Exploring implications of gender differences in perceived maternal support and internalizing symptoms among children.

Poster presented at the University of Florida Undergraduate Research Symposium.
Gainesville, FL.

Bowren, M. D., Tannenbaum, A., Frucht, M., Hadad, N. A., Liu, J., Wynne, C. D. L., & Kertes, D. A. (March, 2014). Temperamental fearfulness but not perceived maternal support predicts internalizing problems among children. Poster presented at the Undergraduate Research Forum, Gainesville, FL.

*Tannenbaum, A., ***Bowren, M. D.**, Hadad, N. A., Liu, J., Wynne, C. & Kertes, D. A. (October, 2013). Sex differences in perceived maternal support among children with stressful life events. Poster presented at the Graduate Student Research Day. Gainesville, FL.

Bowren, M. D., Pourshariati, B., Hadad, N. A., Liu, J., Wynne, C. D., & Kertes, D. A. (April, 2013). Age, gender and interaction time between children and pet dogs. Poster presented at the Undergraduate Research Forum. Gainesville, FL.

PUBLICATIONS

***Bowren, M. D.**, *Croft, K. E., Reber, J., & Tranel, D. (2018). Choosing spouses and houses: Impaired congruence between preference and choice following damage to the ventromedial prefrontal cortex. *Neuropsychology*, 32(3), 280-303.

*Hindman, J., ***Bowren, M. D.**, Bruss, J., Wright, B., Geerling, J. C., Boes, A. D. (in press). Thalamic strokes that severely impair arousal extend into the brainstem. *Annals of Neurology*.

*Co-first authors

MANUSCRIPTS IN PREPERATION

***Bowren, M. D.**, *Boes, A. D., Kuceyeski, A., Bruss, J., Labar, D., Liu, C., Corbetta, M., Pascual-Leone, A., Fox, M., & Edwards, D. (2018). *Lesion-symptom mapping associates lesion location to post-stroke motor impairment across cohorts*.

Bowren, M. D., Bruss, J., Manzel, K., Tranel, D., Boes, A. D. (2018). *Impaired general cognitive ability following damage to longitudinal white matter tracts*.

CLINICAL EXPERIENCE

2017-Present Student Disability Services Assessment, Seashore Clinic, University of Iowa, Iowa City, IA

- Supervisor: Molly Nikolas, Ph.D.
- Administered the WAIS-IV, WIAT-IV, and California Verbal Learning Test (CVLT) among others for individuals seeking academic accommodations at the University of Iowa.

Received weekly supervision.

2016-Present Intellectual Disability Assessment, Seashore Clinic, University of Iowa, Iowa City, IA

- Supervisors: *James Marchman, Ph.D., Gregory Gullickson, Ph.D., Emily Kroska, M.S., Michelle Miller, M.S., and Josie Ullsperger, M.S.*
- Administered the WAIS-IV, WRAT-IV, TFLS, and ABAS-II, conducted interviews, and wrote psychological reports for individuals seeking intellectual disability assessment services. Received weekly supervision.