

ZACHARY B SALANDER | CV

(517) 449-1360

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Education

Doctor of Philosophy in Psychology Developmental Science	2025
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University of Massachusetts, Amherst

Dissertation: *The Developmental Trajectory of Statistics & Computer Programming Anxieties in Introductory Statistics*

Master of Science in Psychology Developmental Science	2019
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University of Massachusetts, Amherst (GPA: 3.965)

Thesis: *Influence of Emotion Processing & Affect Intensity on the Engagement of Inhibitory Control in Young Adults with Attention-deficit/Hyperactivity Disorder*

Bachelor of Science in Neuroscience Minor in Music	2014
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University of Michigan, Ann Arbor (GPA: 3.405, Academic Honors)

Teaching Experience

Course Instructor

Advanced Research Methods in Psychology (<i>In-Person; GVSU</i>)	2025-present
Research and Data Applications (<i>In-Person; GVSU</i>)	2024-present
Introductory Psychology (<i>In-Person; GVSU</i>)	2023-25
Research Methods in Psychology (<i>In-Person & Online; GVSU</i>)	2023-24
Behavioral Neuroscience (<i>Online; UMass Amherst</i>)	2022-23
Self & Society (<i>In-Person; Baker College of Muskegon</i>)	2023
Statistics in Psychology (<i>Online; UMass Amherst</i>)	2020-23
Seminar-Statistics: More Than Meets the Eye (<i>Online; UMass Amherst</i>)	2022
Statistics in Psychology (<i>In-Person; UMass Amherst</i>)	2019

Graduate Teaching Assistant

Introductory Psychology (<i>Hybrid: Online & In-Person</i>)	2020-22
Behavioral Neuroscience (<i>Online</i>)	2020
Statistics in Psychology (<i>In-Person</i>)	2018-19

Introductory Psychology (<i>In-Person</i>)	2017
Methods in Psychology (<i>In-Person</i>)	2016-17

Research Experience

Doctoral Student Researcher

Individual Differences in Development Lab	2018-24
Primary Investigator: Kirby Deater-Deckard, Ph.D. (<i>UMass Amherst</i>)	
Learning Lab	2016-19
Primary Investigator: Jennifer M. McDermott, Ph.D. (<i>UMass Amherst</i>)	
SomneuroLab	2019
Primary Investigator: Rebecca Spencer, Ph.D. (<i>UMass Amherst</i>)	
Cognitive & Developmental Neuroscience Lab	2017
Primary Investigator: Joonkoo Park, Ph.D. (<i>UMass Amherst</i>)	

Survey Specialist Associate

Pathways to Literacy Lab	2014-16
Primary Investigator: Frederick Morrison, Ph.D. (<i>University of Michigan</i>)	

Lab Manager

Human Brain Electrophysiology Lab	2013-14
Primary Investigator: William Gehring, Ph.D. (<i>University of Michigan</i>)	

Mentorship

Graduate Student Mentor

Research in Psychology (<i>UMass Amherst</i>)	2017-19
Summer Pre-College Research Intensives (<i>UMass Amherst</i>)	2017

Post-Undergraduate Student Mentor

Research in Psychology (<i>University of Michigan</i>)	2015-16
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Training

Statistics & Research Methods Coursework (GPA)

EEG & ERP Methods (4.0)

Hierarchical Linear Modeling (4.0)

Introduction to Structural Equation Models (4.0)

Nature & Methods of Inquiry/Psychometrics (4.0)

Nonparametric Statistical Analysis in Education & Psychology (4.0)

Statistical Inference in Psychology (4.0)

Conference Workshops

Getting Started with Bayesian Statistics (*ISSR, UMass Amherst*) 2022

Training Course in fMRI (*University of Michigan*) 2015

Mini ERP Boot Camp (*University of Michigan*) 2014

Software

Statistical: R & RStudio, SPSS, PROCESS, Mplus, HLM7

Task Design & Programming: E-Prime, MATLAB

Survey: Qualtrics

Electrophysiological: EEGLab, ERPLab, BrainVision Recorder & Analyzer, BioSemi Systems

Miscellaneous: Microsoft Office, Google Workspace, Moodle, Canvas, Actiware

Publications

Salander, Z. B., & McDermott, J. M. (*under revision*). Affect and inhibitory control in young adults with attention-deficit/hyperactivity disorder.

Salander, Z. B. (*in prep*). The developmental and instructional roots of statistics anxiety.

McDermott, J.M., **Salander, Z.B.**, Brown, H., Hareli, M., & Harvey, E. (*in prep*). Inhibitory control moderates aggressive and depressive symptoms in children at risk for ADHD.

Hanna, G.L., Liu, Y., Isaacs, Y.E., Ayoub, A.M., Brosius, A., **Salander, Z.**, Arnold, P.D., & Gehring, W.J. (2018). Error-related brain activity in adolescents with obsessive-compulsive disorder and major depressive disorder. *Depression and Anxiety*, 35(8), 752-760.

Conference Presentations

Ahmed, S., **Salander, Z.**, Waters, N., Grammer, J., Gehring, W.J., & Morrison, F. (2017, April). *Self-regulation during the early school transition: An ERP exploration*. Poster session

presented at the meeting of the Society for Research in Child Development, Austin, Texas.

Salander, Z.B., Grammer, J.K., O'Hara, N., Carrasco, M., Gehring, W.J., & Morrison, F.J. (2015, October). *Examining the electrophysiology correlates of response inhibition in young children*. Poster session presented at the meeting of the Cognitive Development Society, Columbus, Ohio.

Ahmed, S.F., Waters, N.E., Stilwell, S.M., **Salander, Z.B.**, Katz, B., Grammer, J.K., & Morrison, J.F. (2015, October). *The relation between lab-based and classroom-based measures of executive function in kindergarten students*. Poster session presented at the meeting of the Cognitive Development Society, Columbus, Ohio.

Service & Community Outreach Activities

Member & Undergraduate Student Mentor	2021-23
Diversity Committee	
<i>Psychological & Brain Sciences, UMass Amherst</i>	
Organizer & Graduate Student Panelist	2021
Developmental Science Graduate Student Recruitment Weekend	
<i>Psychological & Brain Sciences, UMass Amherst</i>	
Facilitator	2017-20
College Matters for U	
<i>University of Massachusetts Center, Springfield, MA</i>	
Participant Recruiter	2017-19
Healthy Development Initiative	
<i>University of Massachusetts Center, Springfield, MA</i>	
Volunteer	2017
Family Fun Day, Healthy Development Initiative Open House	
<i>University of Massachusetts Center, Springfield, MA</i>	
Community Volunteer	2015-16
Math & Science Family Night	
<i>Garfield Elementary School, Livonia, MI</i>	

References

Available upon request