

# ZACHARY B SALANDER | CV

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## Education

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**Doctor of Philosophy in Psychology | Developmental Science** 2024

University of Massachusetts, Amherst

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

**Master of Science in Psychology | Developmental Science** 2019

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

University of Michigan, Ann Arbor (GPA: 3.405, Academic Honors)

## Teaching Experience

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### Course Instructor

Introductory Psychology ( <i>In-Person; GVSU</i> )	2023-present
Research Methods in Psychology ( <i>In-Person; GVSU</i> )	2023-present
Research and Data Applications ( <i>In-Person; GVSU</i> )	2024
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 &amp; 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 (*In-Person*) 2016-17

## **Research Experience**

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### **Doctoral Student Researcher**

**Individual Differences in Development Lab** 2018-24

Primary Investigator: Kirby Deater-Deckard, Ph.D. (*UMass Amherst*)

**Learning Lab** 2016-19

Primary Investigator: Jennifer M. McDermott, Ph.D. (*UMass Amherst*)

**SomneuroLab** 2019

Primary Investigator: Rebecca Spencer, Ph.D. (*UMass Amherst*)

**Cognitive & Developmental Neuroscience Lab** 2017

Primary Investigator: Joonkoo Park, Ph.D. (*UMass Amherst*)

### **Survey Specialist Associate**

**Pathways to Literacy Lab** 2014-16

Primary Investigator: Frederick Morrison, Ph.D. (*University of Michigan*)

### **Lab Manager**

**Human Brain Electrophysiology Lab** 2013-14

Primary Investigator: William Gehring, Ph.D. (*University of Michigan*)

## **Mentorship**

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### **Graduate Student Mentor**

**Research in Psychology** (*UMass Amherst*) 2017-19

**Summer Pre-College Research Intensives** (*UMass Amherst*) 2017

### **Post-Undergraduate Student Mentor**

**Research in Psychology** (*University of Michigan*) 2015-16

## **Training**

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### **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 ( <i>ISSR, UMass Amherst</i> )	2022
Training Course in fMRI ( <i>University of Michigan</i> )	2015
Mini ERP Boot Camp ( <i>University of Michigan</i> )	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

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**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

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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**

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

## **References**

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Available upon request