

CURRICULUM VITAE

BENJAMIN SWANSON

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EDUCATION

Bachelor of Arts *Magna Cum Laude*

May 2021

Major: **Neuroscience, Psychology**

Minor: **Spanish** (intermediate high proficiency)

Concordia College – Moorhead, Minnesota

GPA: 3.88

Major GPA: Neuroscience (3.90) Psychology (4.00)

PUBLICATIONS

Hosch, A., Harris, J., **Swanson, B.**, Petersen, I.T. (in press). The P3 ERP in relation to general versus specific psychopathology in early childhood. *Research on Child and Adolescent Psychopathology*. Preprint: <https://doi.org/10.31234/osf.io/vh3pm>;
OSF: <https://osf.io/zs2bn>

Hosch, A., **Swanson, B.**, Harris, J., Petersen, I.T., Explaining Brain–Behavior Relations: Inhibitory Control as an Intermediate Phenotype Between the N2 ERP and the Externalizing Spectrum in Childhood. *Research on Child and Adolescent Psychopathology*. (in preparation)

Harris, J., **Swanson, B.**, Petersen, I.T. A developmentally informed systematic review and meta-analysis of the strength of general psychopathology in childhood and adolescence. (in preparation)

Peterson, D.J., **Swanson, B.**, Cannella, L. Hanson, J., Petit, G. The role of illusory contours in facilitating color-orientation binding processes in visual working memory. (in preparation)

PRESENTATIONS

Williams, M., Annapureddy, L., **Swanson, B.**, Harris, J.L., Hosch, A., Petersen, I.T. (2023, May). P3 amplitudes as a moderator of the association between parent emotion regulation and child affective reactivity. Poster presented at the 2023 Annual Convention of the Association for Psychological Science (APS), Washington, D.C..

Swanson, B., Williams, M., Petersen, I.T. (2023, March). A difference approach: Examining the association between the P300 ERP, parenting, and externalizing problems in early childhood. Poster presented at the 2023 Biennial Meeting of The Society for Research in Child Development (SRCD), Salt Lake City, UT.

Williams, M., **Swanson, B.**, Petersen, I.T. (2023, March). Child externalizing problems predicting later depressive symptoms: Comparing multiple stressors as mediators. Poster presented at the 2023 Biennial Meeting of The Society for Research in Child Development (SRCD), Salt Lake City, UT.

Hosch, A., Harris, J., **Swanson, B.**, Petersen, I.T. (2023, March). The P3 ERP in relation to general versus specific psychopathology in early childhood. Poster presented at the 2023 Biennial Meeting of The Society for Research in Child Development (SRCD), Salt Lake City, UT.

Williams, M., **Swanson, B.**, Petersen, I.T. (2022). Child externalizing problems predicting later depressive symptoms: Comparing multiple stressors as mediators. Poster presented at the Fall Undergraduate Research Festival, Iowa City, IA.

Swanson, B., Hosch, A., Petersen, I.T. (2022). The association of N2 ERP amplitudes with harsh parenting and inhibitory control in early childhood. Poster presented at the Annual Meeting of the Society for Psychophysiological Research (SPR), Vancouver, British Columbia.

Harris, J. L., **Swanson, B.**, Petersen, I. T. (2022). A Developmentally Informed Meta-Analysis of the Strength of General Psychopathology in Childhood and Adolescence. Poster presented at the 2022 Annual Meeting of The Society for Research in Psychopathology (SRP), Philadelphia, PA.

Swanson, B., Hosch, A., Petersen, I.T. (2022). N2 ERP amplitudes mediate the association between harsh parenting and externalizing problems in 3–7-year-old children. Poster presented at the Annual Convention of the Association for Psychological Science (APS), Chicago, IL.

Swanson, B., Cannella, L., Peterson, D.J., (2021). Further examination of the role of grouping via illusory contours in visual working memory binding. Poster presented at the Celebration of Student Scholarship at Concordia College.

Cannella, L., **Swanson, B.**, Peterson, D.J., (2021). Grouping via illusory contours in simultaneous and sequential arrays in visual working memory. Poster presented at the 35th Annual Meeting of the Red River Psychology Conference, Poster Presentation.

Peterson, D.J., **Swanson, B.**, Cannella, L., Hanson, J. (2020). The role of perceptual grouping via illusory contours in visual working memory binding. Poster presented at the Annual Meeting of the Psychonomic Society, Virtual Poster Presentation.

Swanson, B., Zelenek, Z., Canella, L., & Peterson, D.J. (2020). The role of perceptual grouping cues in visual working memory binding. Oral presentation at the Celebration of Student Scholarship at Concordia College.

Swanson, B & Siegle, M (2019). More than an illusion: the effects of kanizsa triangle orientation on working memory and perception. Oral presentation presented at the Fall Research Methods Conference 2019.

Swanson, B., Cannella, L. & Peterson, D.J. (2019). Does perceptual organization benefit feature binding in visual working memory? Poster presented at Concordia College fall research presentation for summer scholars.

RESEARCH EXPERIENCE

Lab Coordinator

2021–present

Developmental Psychopathology Lab – Professor Isaac T. Petersen, Ph.D. Iowa City, IA

- Coordinate an NIH funded study (R01 HD098235) investigating the neural development of executive function, school readiness, and externalizing behavior problems in 3–7-year-old children
- Oversee participant recruitment, retention, and scheduling for all study participants
- Develop code-based systems utilizing R programming to enhance efficiency of recruitment, retention, and data processing within the lab
- Train and supervise 21 undergraduates and lab staff in data entry, video behavioral coding, and administration of behavioral tasks
- Collaborate with the Principal Investigator and graduate students to ensure quality control of data collection and processing
- Administer tasks with E-Prime stimulus presentation software utilizing a EGI NetAmps 400, 128-Channel System that assesses electroencephalography (EEG)
- Preprocess data for deriving event-related potentials for EEG data using NetStation tools and EEGLAB in MATLAB
- Communicate with the Institutional Review Board and maintain regulatory standards

Lab Manager

2020–2021

Concordia Memory Collective – Professor Dwight Peterson Ph.D.

Moorhead, MN

- Prepared Institutional Review Board materials for laboratory protocols to ensure the ethical treatment of human participants including new protocols for COVID-19 safety
- Acquired experience with using human participants database management software (e.g., SONA Systems) to recruit participants for laboratory studies.
- Acquired introductory knowledge of EEG experimental protocols using an EGI NetAmps 400, 32-Channel System to examine Event-Related Potentials associated with human memory processes

Research Assistant

2019–2020

Concordia Memory Collective – Professor Dwight Peterson Ph.D.

Moorhead, MN

- Actively participated in extensive literature reviews for experiments involving human perception and memory
- Prepared stimuli and materials and assisted with computer programming (e.g., using E-Prime software) to automate and administer laboratory experiments on human memory
- Obtained informed consent, administered standard laboratory forms, and collected experimental data for multiple behavioral experiments
- Entered and analyzed experimental data in Microsoft Excel and IBM SPSS software

TEACHING EXPERIENCE

Teaching Assistant

2020–2021

Professor Elizabeth Ewing Lee Ph.D.

Moorhead, MN

- Assist students with course requirements in Introductory and Developmental Psychology courses
- Evaluate written work including final papers, and assignments for both Introductory and Developmental Psychology
- Provide feedback and instruction to facilitate student success

GRANTS, HONORS, & SCHOLARSHIPS

Al Bartz-Larabee Endowment

2020

(Funding to conduct full-time research during the summer)

Humanities and Social Sciences Endowment

2020

(Funding to conduct full-time research during the summer)

Undergraduate Research Creativity and Scholarship summer funding

2019–2020

(Funding to conduct full-time research during the summer)

Professor Alfred E. Bartz Psychology Department funding <i>(Funding to conduct full-time research during the summer)</i>	2019
Concordia College Excellence Scholarship	2017–2021
Sanford Health Professions scholarship	2017–2021
Dean’s List	2017–2021

Technical Skills

Statistical Software: R including tidyverse, dplyr, rmarkdown, Rstudio, Lavaan (Proficient); SPSS (Proficient); M-Plus: (Basic proficiency)

Hardware/Software: NetStation EEG Acquisition and Processing Software (Proficient), ERP Toolkit (Proficient), EEGLAB using MATLAB (Proficient) E-Prime Stimulus Presentation Software (Basic Proficiency), Microsoft Office Suite (Proficient)

Survey Software: Qualtrics (Proficient)

Data Management: REDCap (Proficient)

Professional Affiliations

Association for Psychological Science (APS)	2022–present
Society for Psychophysiological Research (SRP)	2022–present
Society for Research on Child Development (SRCD)	2023–present

Professional References

Isaac T. Petersen, Ph.D.
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