

**Curriculum Vitae**  
**ALEXIS HOSCH**

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**EDUCATION**

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<b>PhD</b>	University of Iowa, Clinical Science Advisor: Isaac Petersen, PhD	Anticipated May 2026
<b>MA</b>	University of Iowa, Clinical Science Advisor: Isaac Petersen, PhD	December 2022
<b>BS</b>	University of Wisconsin-Madison, Psychology Certificate: German Graduated with Distinction	May 2018

**ACADEMIC HONORS AND AWARDS**

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Society for Research in Child Development Graduate Student Travel Award (\$300)	2023
Behavioral-Biomedical Interface Training Program (BBIP), Summer Fellowship	Summer 2022
Psychological and Brain Sciences Departmental Travel Award (\$375)	2022
University of Wisconsin-Madison Dean's List	2014-2018

**PUBLICATIONS**

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- \***Hosch, A.**, \*Harris, J. L., 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>
- Hosch, A.**, Oleson, J. J., Harris, J. L., Goeltz, M. T., Neumann, T., LeBeau B., Hazeltine, E., & Petersen I. T. (2022). Studying children's growth in self-regulation using changing measures to account for heterotypic continuity: A Bayesian approach to developmental scaling. *Developmental Science*, 25(6), e13280. <https://doi.org/10.1111/desc.13280>; Preprint: <https://doi.org/10.31234/osf.io/y82ua>
- AuBuchon A. M., Elliott, E. M., Morey, C., Jarrold, C., Cowan, N., Adams, E. J., Attwood, M., Bayram, B., Blakstvedt, T. Y., Büttner, G., Castelain, T., Cave, S., Crepaldi, D., Fredriksen, E., Glass, B., Guitard, D., Hoehl, S., **Hosch, A.**, ... Voracek, M. (2022). Lexical access speed and the development of phonological recoding during immediate serial recall. *Journal of Cognition and Development*, 1-20. <https://doi.org/10.1080/15248372.2022.2083140>
- Vlach, H. A., Kaul, M., **Hosch, A.**, & Lazaroff, E. (2021). Attending less and forgetting more promotes generalization: Dynamics of simultaneous, massed, and spaced presentations in science concept learning. *Journal of Applied Research in Memory and Cognition*. Advance online publication. <https://doi.org/10.1016/j.jarmac.2021.10.007>
- Elliott, E. M., Morey, C. C., AuBuchon, A. M., Cowan, N., Jarrold, C., Adams, E. J., Attwood, M., Bayram, B., Beeler-Duden, S., Blakstvedt, T. Y., Büttner, G., Castelain, T., Cave, S., Crepaldi, D., Fredriksen, E., Glass, B. A., Graves, A. J., Guitard, D., Hoehl, S., **Hosch, A.**, ... Voracek, M. (2021). Multilab direct replication of Flavell, Beach, and Chinsky (1966): Spontaneous verbal rehearsal in a memory task as a function of age. *Advances in Methods and Practices in Psychological Science*, 4(2), 1-20. <https://doi.org/10.1177/25152459211018187>

\*These authors contributed equally to this work

## MANUSCRIPTS

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**Hosch, A.**, Swanson, B., Harris, J. L., & Petersen, I. T. (manuscript invited for submission). Explaining brain–behavior relations: Inhibitory control as an intermediate phenotype between the N2 ERP and the externalizing spectrum in childhood.

**Hosch A.**, Lancaster, E., & Petersen, I. T. (in prep). A meta-analysis of the association between neighborhood socioeconomic status and executive functioning in childhood.

## CONFERENCE PRESENTATIONS

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### PAPER PRESENTATIONS

Petersen, I. T., **Hosch, A.**, & Hazeltine, E. (2021, October). Development, ERPs, and RDoC: Identifying pathways to psychopathology. Paper symposium presented in the Presidential Symposium at the meeting of the Society for Psychophysiological Research, Virtual Meeting.

### POSTER PRESENTATIONS

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

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

**Hosch, A.** & Petersen, I. T. (2022, May). Smaller N2 amplitudes are associated with greater externalizing problems in early childhood. Poster presented at the annual convention for the Association for Psychological Science (APS), Chicago, IL.

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

Zhou, W., Tong, Y., Knabe, M., **Hosch, A.**, & Vlach, H. A. (2020, April). Effects of L2 language exposure and current language context on adults' object categorization among Mandarin-English bilinguals. Poster accepted for the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI. *Conference Canceled.*

**Hosch, A.**, Schonberg, C., Vlach, H. A., & Lupyan, G. (2020, March). Joining the replication movement: A registered replication report of Flavell et al. (1966) at UW-Madison. Poster accepted for the annual University of Wisconsin-Madison Education Research Poster Fair, Madison, WI. *Conference Canceled.*

**Hosch, A.**, Kaul, M., Lazaroff, E., & Vlach, H. A. (2019, October). When visual attention doesn't explain learning: Spaced learning in children's generalization of STEM concepts. Poster presented at the biennial meeting of the Cognitive Development Society (CDS), Louisville, KY.

**Hosch, A.**, & Li, J. J. (2019, June). A psychosocial mechanism of polygenic risk for child and adolescent externalizing behaviors. Poster presented at the biennial meeting of the International Society for Research in Child and Adolescent Psychopathology (ISRCAP), Los Angeles, CA.

Weber, E., Simon, N., **Hosch, A.**, & Vlach, H. A. (2019, April). To compare or space? The role of visual attention in children's science learning. Poster presented at the University of Wisconsin-Madison Undergraduate Research Symposium, Madison, WI.

Immel, B., **Hosch, A.**, & Li, J. J. (2019, March). Evidence of an indirect effect of polygenic risk scores for childhood externalizing behavior through negative parenting behaviors. Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development (SRCD), Baltimore, MD.

**Hosch, A.**, Lazaroff, E., Kaul, M., & Vlach, H. A. (2019, February). Combining simultaneous and spaced presentations: Distributed pairs in children's generalization of STEM. Poster presented at the annual University of Wisconsin-Madison Education Research Poster Fair, Madison, WI.

## RESEARCH EXPERIENCE

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**Graduate Research Assistant (PI: Isaac Petersen, PhD)** August 2020 - Present  
Developmental Psychopathology Lab, University of Iowa

- Collected and analyzed electroencephalography (EEG) and behavioral data for a longitudinal study examining the development of self-regulation and externalizing behaviors in young children
- Prepared manuscripts
- Developed behavioral coding systems
- Supervised undergraduate research assistants, including supervising senior theses

**Summer Research Rotation (PI: Amy Conrad, PhD)** May 2022 – July 2022  
University of Iowa

- Coordinated a pilot study examining brain development in infants with and without cleft lip and palate using functional near-infrared spectroscopy (fNIRS)
- Recruited, screened, scheduled, and facilitated participant sessions

**Lab Manager (PI: Haley Vlach, PhD)** August 2018 – August 2020  
Learning, Cognition, and Development Lab, University of Wisconsin - Madison

- Supervised and trained 6 to 8 undergraduate research assistants per semester
- Coordinated IRB protocols, study design, recruitment, data collection, and data analyses
- Collected data for multiple studies examining the role of desirable difficulties in children's learning using eye tracking software
- Administered and scored standardized assessments, including the Peabody Picture Vocabulary Test and the Woodcock Johnson

**Research Assistant (PI: James Li, PhD)** May 2017 – May 2018  
Social and Behavioral Development Lab, University of Wisconsin - Madison

- Designed and conducted a study examining how polygenic risk scores for aggression interact with parenting behaviors to influence the development of externalizing behaviors in children and adolescents
- Collected and entered data from clinical self-report questionnaires and structured clinical interviews (e.g., DISC-IV) from children, parents, and teachers
- Scored and validated clinically oriented questionnaires (e.g., Child Behavior Checklist)
- Recruited, screened, scheduled, and facilitated participant sessions

**Research Assistant (PI: Martha Alibali, PhD)** September 2016 – May 2018  
Cognitive Development and Communication Lab, University of Wisconsin – Madison

- Facilitated child and adult participant sessions for studies examining precursors of strategy

- change related to mathematical reasoning and problem solving
- Collected and coded data for studies examining the role of gesture in children’s learning of mathematical connections
- Organized and entered data from participant assessments into FileMaker Pro

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### CLINICAL EXPERIENCE

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**Practicum Student** August 2022 - Present

LD/ADHD Pediatric Neuropsychology Clinic, Center for Disabilities and Development

Supervisor: Tammy Wilgenbusch, PhD

- Conducted neuropsychological assessments for children and adolescents with learning disabilities and/or ADHD

**Graduate Student Clinician** August 2021 - Present

Seashore Psychology Clinic, University of Iowa

Responsibilities:

- Provided individual psychotherapy to children and adults
- Conducted psychological assessments with children and adults

Supervisors:

- Isaac Petersen, PhD
- Molly Nikolas, PhD

August 2022 - Present  
August 2021 – August 2022

**Assessments Administered and Scored:**

Cognitive/Development:

- Wechsler Intelligence Scales (WISC-V, WAIS, etc.)
- Woodcock Johnson (WJ)

Neuropsychological:

- Comprehensive Test of Phonological Processing – 2 (CTOPP-2)
- NEPSY-II
- Delis-Kaplan Executive Function System (D-KEFS)
- Barkley Deficits in Executive Functioning Scale (BDEFS)
- California Verbal Learning Test (CVLT)

Achievement:

- Wechsler Individual Achievement Test (WIAT-4)
- Nelson-Denny Reading Test
- Peabody Picture Vocabulary Test (PPVT)

Behavior/Social Emotional:

- Achenbach System of Empirically Based Assessment (e.g., CBCL, ASR, TRF, ABCL, etc.)
- Barkley Adult ADHD Rating Scale-IV (BAARS-IV)
- Barkley Functional Impairment Scale (BFIS)
- Mini International Neuropsychiatric Interview (MINI)
- Minnesota Multiphasic Personality Inventory (MMPI-2-RF)

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### TEACHING EXPERIENCE

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**Teaching Assistant (Instructor: Julie Gros-Louis, PhD)** August 2022 – December 2022

Elementary Psychology, University of Iowa

**Teaching Assistant (Instructor: Jiefeng Jiang, PhD)** January 2021 – May 2021

Research Methods 1, University of Iowa

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## DIDACTIC TRAINING

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- Behavior Therapy Seminar** May 2022 – Present  
Department of Psychological and Brain Sciences, University of Iowa  
Supervisor: Emily Thomas, PhD
- Motivational Interviewing and Interpersonal Therapy Seminar** August 2021 – May 2022  
Department of Psychological and Brain Sciences, University of Iowa  
Supervisor: Gregory Gullickson, PhD
- Acceptance and Commitment Therapy Seminar** August 2021 – December 2021  
Department of Psychological and Brain Sciences, University of Iowa  
Supervisor: Emily Thomas, PhD
- Psychological Assessment Seminar** August 2020 – May 2021  
Department of Psychological and Brain Sciences, University of Iowa  
Supervisor: Gregory Gullickson, PhD
- Clinical Interviewing Seminar** August 2020 – May 2021  
Department of Psychological and Brain Sciences, University of Iowa  
Supervisor: Gregory Gullickson, PhD

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## PROFESSIONAL MEMBERSHIPS

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- Behavioral-Biomedical Interface Training Program (BBIP), University of Iowa 2020 – Present  
Society for Research in Child Development 2019 – 2020, 2023 – Present  
Association for Psychological Science 2022 – 2023  
Cognitive Development Society 2019 – 2020  
International Society for Research on Child and Adolescent Psychopathology 2019 - 2020

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## LANGUAGES

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- English:** Native Language  
**German:** Proficient

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## TECHNICAL SKILLS

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- Statistical Software:** SPSS, R, PRSice (Proficient); PLINK, MATLAB (Basic Proficiency)  
**Experimental Software:** Tobii X3-120 Portable Eye Tracker, Tobii ProLab, NetStation (Proficient)  
**Survey Software:** Amazon Mechanical Turk, Qualtrics (Proficient)  
**Data Management:** REDCap, FileMaker Pro, Microsoft Office Suite (Proficient)