

ERIN M. ANDERSON

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RESEARCH INTERESTS

Infant cognitive development, spatial relations, physical reasoning, analogy, language development

EDUCATION

Northwestern University, Evanston, IL 2020

Ph.D., Cognitive Psychology

Cognitive Science Program

Multidisciplinary Program in Education Science (IES) Fellow

Advisor: Dr. Susan J. Hespos

Northwestern University, Evanston, IL 2015

M.S., Psychology

Thesis: *The impact of labeling same and different for children acquiring language.*

Advisor: Dr. Susan J. Hespos

The University of Texas, Austin, TX 2011

B.A., Psychology with Special Honors

Honors Advisor: Dr. Judith H. Langlois

HONORS AND AWARDS

Florence Sales Teaching Fellow 2019

Graduate Writing Fellowship 2018 - 2020

Northwestern Graduate Research Grant 2017

Cognitive Science Travel Grant 2016

Institute for Education Sciences / MPES Fellowship (\$90,000) 2015 – 2018

Cognitive Science First-year Fellowship 2014 – 2015

PUBLICATIONS

Hespos, S. J., & **Anderson, E. M.** (2020). Infant Physical Reasoning. In J. Lockman & C. Tamis-LeMonda (Eds.) *The Cambridge Handbook of Infant Development*. Cambridge University Press.

Hespos, S. J., **Anderson, E.**, Gentner, D. (2020). Structure-mapping processes enable infants' learning across domains, including language. In J. Childers, S. Graham & L. Namy (Eds.) *Language and Concept Acquisition from Infancy Through Childhood: Learning from Multiple Exemplars*. Springer International Publishing: Cham, Switzerland.

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (2018). Comparison Within Pairs Promotes Analogical Abstraction in Three-Month-Olds. *Cognition*, 176, 74 – 86. DOI: 10.1016/j.cognition.2018.03.008

Anderson, E. M., Hespos, S. J., & Rips, L. J. (2018). Five-month-old infants have expectations for when nonsolid substances transform and persist. *Cognition*, 175, 1-10. DOI: 10.1016/j.cognition.2018.02.009

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (2017). *Analogical Abstraction in Three-Month-Olds*. D. Grodner, D. Mirman, A. Papafragou, J. Trueswell, J. Novick, S.

Arunachalam, S. Christie, & C. Norris (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*, 692-697. Austin, TX: Cognitive Science Society.

Hespos, S. J., Ferry, A. L., **Anderson, E. M.**, Hollenbeck, E., & Rips, L. J. (2016). Five-month-old infants have general knowledge of how nonsolid substances behave and interact. *Psychological Science*, 27(2), 244–256. DOI: 10.1177/0956797615617897

MANUSCRIPTS UNDER REVIEW

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (Under review). Language interacts with infants' relational learning.

Anderson, E. M., Zeigler, N., Hespos, S. J., & Rips, L. J. Infants update physical reasoning expectations with the latest information. (In prep).

Hespos, S.J., Gentner, D., **Anderson, E. M.**, & Shivaram, A. (Under review). The Origins of Same/Different Discrimination in Human Infants.

CONFERENCE PRESENTATIONS

Anderson, E. M., Zeigler, N., Hespos, S. J., & Rips, L. J. (October, 2019). *Expectations and Exploration from Non-Solid Substances*. Symposium talk at Cognitive Development Society Biennial Meeting, Louisville, KY.

Anderson, E. M., Hespos, S. J., & Rips, L. J. (July, 2019). *Surprise-Based Learning with Non-Solid Substances*. Poster to be presented at Cognitive Science Society, Montreal, Canada.

Anderson, E. M., Hespos, S.J., & Gentner, D. (March, 2019). *When One Exemplar Behaves Like Many*. Symposium talk at SRCD Biennial Meeting, Baltimore, MD.

Anderson, E. M., Hespos, S. J., & Rips, L. J. (July, 2018). *Infants' reasoning in dual physical domains: Physical inference without the instruction manual*. Symposium talk at Cognitive Science Society, Madison, WI.

Anderson, E. M., Hespos, S.J., & Gentner, D. (July, 2018). *When One Exemplar Behaves Like Many*. Poster presented at the International Congress for Infant Studies, Philadelphia, PA.

Anderson, E. M., Hespos, S. J., & Rips, L. J. (October, 2017). *Infants' Expectations for How Sand Merges and Divides*. Poster presented at the Cognitive Development Society Biennial Meeting, Portland, OR.

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (July, 2017). *Analogical Abstraction in Three-Month-Olds*. Poster presented at the 4th Analogy Conference, Paris, France.

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (June, 2017). *Analogical Abstraction in Three-Month-Olds*. Poster presented at the 39th Cognitive Science Society Conference, London, UK.

Symposium Organizer, *Critical cues in early physical reasoning*. (April, 2017). Symposium at SRCD Biennial Meeting, Austin, TX.

Anderson, E. M., Chang, Y-J, Hespos, S.J., & Gentner, D. (May, 2016). *Relational learning in 3-month-old infants*. Poster presented at the International Congress for Infant Studies, New Orleans, LA.

Anderson, E. M., Hespos, S. J., & Rips, L. J. (October, 2015). *Infants' Expectations about the Properties of Sand*. Poster presented at the Cognitive Development Society Biennial Meeting, Columbus, OH.

INVITED TALKS

Learning the relations between objects (July, 2020). Workshop on Computer Vision and Developmental Psychology, Bloomington, IN.

Perceptual factors in infants' relational learning. (October, 2019). Developmental Seminar brownbag, Indiana University, Bloomington, IN.

Analogical learning at three months. (October, 2017). Developmental Area brownbag, University of Illinois at Urbana-Champaign, IL

Analogical abstraction in three-month-olds. (June, 2017). Evolution & Ontogenesis Workshop, Harvard University, Cambridge, MA.

What variables predict science achievement? (May, 2016). Presentation to Evanston Township High School faculty and administration, Evanston, IL.

Spot the relation! Finding smart thinking in babies. (September 2016). Seven minutes of Science Symposium, Northwestern University, Chicago, IL

RESEARCH EXPERIENCE

Postdoctoral Researcher, Cognitive Development Lab Present
PI: Linda Smith, Ph.D.

Graduate Researcher, Northwestern Infant Cognition Lab 2014 – 2020
PI: Susan Hespos, Ph.D.

- Manage infant lab data collection from infants (2.5 – 15 months) 2 days / week
- Develop and train undergraduate research assistants on coding schemes (ELAN, MATLAB)
- Coordinate with Metropolitan Family Services to design interventions and evaluations as part of Play Learning Landscapes Chicago
- Mentor undergraduate students engaged in summer or honors research projects

Consultant / School Experience Evaluation, Legat Architecture 2018 - 2019
Chicago, IL

- Designed evaluations in collaboration with architects and school administrators to assess student and teacher behavior before and after occupying new school buildings
- Analyzed and presented results in written reports

Fellow, Multidisciplinary Program in Education Sciences Practicum 2015 – 2016
Evanston Township High School & Northwestern University
PI: David Rapp, Ph.D.

- In a team of 3 graduate students, cleaned and analyzed (via STATA) 10 years of ETHS data to answer the question, "What variables predict science achievement?"
- Drafted a coding manual and written report for ETHS, presented findings to administrators, teachers and students onsite

Lab Manager (initially Research Assistant), Social Development Lab 2010 – 2014
The University of Texas at Austin
PI: Judith Langlois, Ph.D.

- Developed and implemented study designs, trained and supervised research assistants on data collection and video coding

- Collected and cleaned ERP data (BIOPAC) from 6-month-old infants and adults
- Built and managed a database of faces and ratings across 20 years of studies (Filemaker)

TEACHING EXPERIENCE

Teaching Assistant, Northwestern University

Title (Instructor)	Date	Class size	Responsibilities
Research Methods (Greg Miller)	Winter 2019	24 in lab section	Prepared for and led two-hour lab sections, graded papers and project proposals, met with students in pairs or one-on-one to guide them in collecting and reporting experimental data
RSG Research Communication	Summer 2018	16 in section	Graduate level course culminating in a public symposium Led class exercises and introduced experts, evaluated students' evolving presentation skills on a rubric, worked with students who missed classes, discussed course challenges and relevant research with other TAs at weekly meetings
Developmental Psychology (Susan Hespos)	Spring 2018	20 in discussion section	Led weekly discussion sections, graded weekly discussion essays, wrote and graded weekly quiz questions, held office hours, mentored students through essay drafts <i>Guest lecture: Conceptual development</i>
Developmental Psychology (Sara Broaders)	Fall 2017	20 in discussion section	Led weekly discussion sections, graded weekly discussion essays, wrote and graded exam questions, held office hours, mentored students through essay drafts, attended weekly TA meetings with instructor
Developmental Psychology (Susan Hespos)	Spring 2017	24 in discussion section	Led weekly discussion sections, graded weekly discussion essays, wrote and graded weekly quiz questions, held office hours, mentored students through essay drafts <i>Guest lecture: Conceptual development</i>
Introduction to Psychology (Renee Engeln)	Spring 2015	266 students	Wrote and graded exam questions, graded 3-page essays, held office hours

Writing Fellow, Graduate Writing Place

2018-2020

One-on-one writing consultations with graduate students on grants, manuscripts

Co-Instructor, Northwestern University

Spring 2017

Qualitative Methods series (3 workshops)

SKILLS

Statistics: Proficient in R, SPSS. Experience with STATA, JMP

Programming: R, Matlab

Data collection: Proficient in Matlab, Qualtrics, MTurk, E-Prime

Psychophysiological equipment: Experience collecting data with BIOPAC MP150 and MP36 units (collecting ERP and EMG data) and with Miramatrix & Tobii eyetrackers

PROFESSIONAL SERVICE & OUTREACH

Diversity & Inclusion Committee member	2018 – 2020
NU Brain Awareness Outreach	2015 – 2020
Sneak Peek Diversity Recruitment organizer	Spring 2018
Graduate student mentor (to first-year students)	2015 – 2018
Sneak Peek Diversity Recruitment panel	Spring 2016
Psychology Graduate Prospective Day organizer	Winter 2015
First-Year Psychology Graduate Student Representative	Spring 2015

REFERENCES

- Dr. Susan Hesos, Professor, Department of Psychology, Northwestern University
Email: hespos@northwestern.edu Phone: (847) 467-1394
- Dr. Dedre Gentner, Professor, Department of Psychology, Northwestern University
Email: gentner@northwestern.edu Phone: (847) 467-1272
- Dr. Lance Rips, Professor, Department of Psychology, Northwestern University
Email: rips@northwestern.edu Phone: (847) 491-5947