

LAUREN E. ANTHONY, PhD

Assistant Professor of Psychology
Department of Integrated Studies
University of Wisconsin–Whitewater

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EDUCATION

University of Wisconsin-Madison Madison, WI
Ph.D., Psychology (Cognition and Cognitive Neuroscience Area) July 2026
Dissertation: *The psychological space of linear function representations and connections to problem solving*
Advisors: Martha W. Alibali & C. Shawn Green

University of Wisconsin-Madison Madison, WI
M.S., Psychology (Cognition and Cognitive Neuroscience Area) May 2021

University of California-Los Angeles Los Angeles, CA
B.S., Cognitive Science Jun 2018
Specialization in Computing
Honors: *summa cum laude*

RESEARCH EXPERIENCE

University of Wisconsin-Madison, Department of Psychology Madison, WI
Graduate Research Assistant Sept 2019 – Aug 2026
Learning and Transfer Lab (PI: C. Shawn Green)
Cognitive Development and Communication Lab (PI: Martha W. Alibali)

- Research focuses on cognition, learning, and generalization with an emphasis on representational knowledge, flexibility, and motivation in mathematics

University of California-Los Angeles, Department of Psychology Los Angeles, CA
Research Assistant, Teaching and Learning Lab (PI: James Stigler) Oct 2018 – Jan 2019
Lab Manager, Rissman Memory Lab (PI: Jesse Rissman) Jan 2018 – Jun 2018
Research Assistant, Reasoning Lab (PI: Patricia Cheng) Sept 2017 – Jun 2018
Research Assistant, Rissman Memory Lab (PI: Jesse Rissman) Jun 2017 – Dec 2017

TEACHING EXPERIENCE

University of Wisconsin-Whitewater, Department of Integrated Studies Janesville, WI
Instructor, Introduction to Psychology Sept 2026 – Dec 2026
Instructor, Lifespan Development Sept 2026 – Dec 2026
University of Wisconsin-Madison, Department of Psychology Madison, WI
Instructor, Psychology of Academic Learning (senior capstone course) Jan 2025 – May 2025

- Developed and taught new undergraduate depth course; course size: 25 students (5/5 overall instructor effectiveness rating on student course evaluations)

<i>Instructor, Introduction to Psychology</i>	Sept 2024 – Dec 2024
Facilitated (lectured and wrote exams) large in-person lecture course; course size: 229 students (4.47/5)	
<i>Instructor, Introduction to Psychology</i>	Jun 2024 – Aug 2024
Facilitated asynchronous online course; course size: 124 students (4.64/5)	
<i>Instructor, Introduction to Psychology</i>	Jun 2023 – Aug 2023
Facilitated asynchronous online course; course size: 124 students (4.52/5)	
<i>Teaching Assistant, Basic Statistics for Psychology</i>	Sept 2022 – Dec 2022
Developed and taught four discussion sections per week; course size: 60 students (4.91/5)	
<i>Teaching Assistant, Introduction to Psychology (online course)</i>	Jun 2022 – Aug 2022
Graded student work and provided feedback; course size: 111 students	
<i>Teaching Assistant, Introduction to Psychology</i>	Sept 2021 – Dec 2021
Graded student work and provided feedback; course size: 238 students	

MENTORING EXPERIENCE

University of Wisconsin-Madison, Department of Psychology	Madison, WI
<i>Master's students mentored/supervised:</i>	
Carolinne Vieira (2025-2026)	
<i>Undergraduates mentored/supervised:</i>	
Grace Carman (Spring 2026)	
Amelia Dittman (Spring 2026)	
Connor Wood (Spring 2026)	
Amanda Rhee (2025-2026)	
Leila Tannous (2025-2026)	
Anxhela Tata (2025-2026)	
Greg Dekker (Fall 2025)	
Christine Becerra-Lopez (2022-2025) — <i>McNair Scholars Program, Senior Thesis</i>	
Pragati Maheshwary (2022-2025) — <i>Honors Summer Sophomore Apprenticeship, Hilldale Research Fellowship, Senior Thesis</i>	
Isaiah Stevens (Summer 2024) — <i>Summer Education Research Program</i>	
Kendall Callery (2023-2024)	
Zachary Fredrich (2023-2024)	
Levi Kasten (2022-2023)	
Daniel Otchere (2021-2023)	
Trenton Mercadel (Summer 2022) — <i>Psychology Research Experience Program (PREP)</i>	
Hannah Alpert (2021-2022)	
Lauren Smith (2021-2022) — <i>Hilldale Research Fellowship</i>	
Zach Demko (2020-2021)	
Katelyn Van Buren (2019-2021)	
Lauren Verhulst (2019-2021)	

PUBLICATIONS

*Undergraduate coauthor

- Anthony, L. E.**, Cochrane, A., *Klaas, V., Hecht, C. A., & Green, C. S. (2025). Applications of expectancy-value theory in promoting motivated behavior in cognitive training. *Journal of Cognitive Enhancement*. <https://doi.org/10.1007/s41465-025-00332-6>
- Vest, N. A., **Anthony, L. E.**, *Callery, K., *Shack, A. P., *Becerra-Lopez, C., & Alibali, M. W. (2025). Does focusing on the unit of change help children learn growing pattern skills? *Journal of Cognition and Development*, 1–24. <https://doi.org/10.1080/15248372.2025.2484221>
- Alibali, M. W., Matthews, P. G., Rodrigues, J., Meng, R., Vest, N. A., Jay, V., Menendez, D., Murray, J. O., Donovan, A. M., **Anthony, L. E.**, & McNeil, N. M. (2024). A bird's-eye view of research practices in mathematical cognition, learning, and instruction: Reimagining the status quo. *Journal of Experimental Child Psychology*, 248, 106056. <https://doi.org/10.1016/j.jecp.2024.106056>

UNDER REVIEW/SUBMITTED

- Anthony, L. E.**, Donovan, A. M., Stephens, A. C., Matthews, P. G., & Alibali, M. W. (In press) More than the same: A substitutive conception of the equal sign is associated with better algebraic reasoning. *Journal of Numerical Cognition*.
- Anthony, L. E.**, Green, C. S., & Alibali, M. W. (In press). Opportunities for perceptual learning influence problem solving in mathematics. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Stephens, A. C., **Anthony, L. E.**, Donovan, A. M., A. C., Matthews, P. G., & Alibali, M. W. (In press) Promoting a substitutive conception of the equal sign. *The Banneker Banner*.
- Joëssel, F., Anthony, L. E., Cochrane, A., Jiang, S., Yüksel, E.M., Dale, G., & Green, C.S. Shifts in fluid intelligence and personality measures along academic terms in undergraduate samples. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. (Submitted July 2026)

PRESENTATIONS

* Undergraduate coauthor

TALKS

- Anthony, L. E.**, Donovan, A. M., Stephens, A. C., Matthews, P. G., & Alibali M. W., (2025, April 23-27) More than the same: A substitutive conception of the equal sign predicts algebraic problem solving [Talk]. AERA Annual Meeting. Denver, CO.
- Vest, N. A., **Anthony, L. E.**, *Callery, K., *Shack, A. P., *Becerra-Lopez, C., *Maheshwary, P., & Alibali, M. W. (2024, Jun 26-28) Does focusing on the unit of change help children extend and abstract shape and number patterns? [Talk] The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Washington, D.C.
- Anthony, L. E.**, Green, C. S., & Alibali, M. W. (2023, June 5-8) Experience with equations in

- sequence enhances problem-solving performance [Talk]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Loughborough, England.
- Silla, E. M., Vest, N. A., Nagashima, T., Bartel, A. N., **Anthony, L. E.**, Aleven, V., & Alibali, M.W. (2022, Feb 25th) Efficacy of tape diagrams: Evidence from an intelligent tutoring system [Lightning Talk]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Virtual Meeting.
- Anthony, L. E.**, Green, C. S., & Alibali, M. W. (2021, Sept 3rd) Examining the effects of equations in sequence on problem-solving performance and relational reasoning [Lightning Talk]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Virtual Meeting.

POSTERS

- Yüksel, E. M., **Anthony, L. E.**, Cunningham, E. G., *Kasten, L., & Green, C. S. (2024, Nov 20-23) Individual differences in learning and generalizing a complex motor skill [Poster Session]. Psychonomic Society Annual Conference. New York, NY.
- *Stevens, I., Alibali, M. W., **Anthony, L. E.**, *Becerra-Lopez, C., Marquardt Donovan, A., Matthews, P.G., & Stephens, A. C. (2024, Jul 31) Equal sign representation and mathematical agency in mathematics [Poster session]. Summer Education Research Poster (SERP) Symposium. Madison, WI.
- *Maheshwary, P., **Anthony, L. E.**, & Alibali, M. W. (2024, Jun 26-28) Does early abacus training affect later math performance? [Poster Session]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Washington, D.C.
- *Maheshwary, P., **Anthony, L. E.**, & Alibali, M. W. (2024, Apr 18-20) Does early abacus training affect later math performance? [Poster Session]. Midwestern Psychological Association (MPA) Annual Meeting, Chicago, IL.
- Vest, N. A., **Anthony, L. E.**, *Callery, K., *Shack, A. P., *Becerra-Lopez, C., *Maheshwary, P., & Alibali, M. W. (2024, Mar 21-23) Learning to extend and abstract shape and number patterns: Do lessons focused on the pattern unit help? [Poster Session] Cognitive Development Society (CDS) Biennial Conference, Pasadena, CA.
- Cunningham, E. G., **Anthony, L. E.**, *Kasten, L. A., Yüksel, E. M. & Green, C. S. (2023, Nov 19-16) Individual differences in learning a complex visuo-motor task [Poster Session]. Psychonomic Society Annual Conference. San Francisco, CA.
- Anthony, L. E.**, Green C. S., & Alibali, M. W. (2022, Jun 1-3) Examining the effects of pattern experience on algebraic problem-solving strategies in young adults [Poster Session]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference, Antwerp, Belgium.
- Harsch, R. M., Fulsher, A. J., **Anthony, L. E.**, & Bye, J. K. (2022, Jun 1-3) We have to use letters now?! Motivating early algebra understanding [Poster Session]. The Mathematical Cognition and Learning Society (MCLS) Annual Conference. Antwerp, Belgium.
- Anthony, L. E.**, Cochrane, A., Ji, M. & Green C. S. (2022, May 13-18) Temporal dependencies in sequences of perceptual learning stimuli impact choice behavior in Gabor orientation discrimination task [Poster Session]. Annual Meeting of the Vision Sciences Society (VSS), St. Pete Beach, FL.

- Anthony, L. E.,** Green C. S., & Alibali, M. W. (2021, Jul 26-29) Experience with equations in sequence promotes procedural fluency [Poster Session]. Cognitive Science Society Annual Meeting, Virtual Meeting.
- Bye, J. K., Chuang, P., **Anthony, L. E.,** & Cheng, P. W. (2020, Jun 19-23) Teaching the purpose and meaning of algebraic variables through systems-of-equations story problems: Multimedia approaches. [Poster session] The International Conference of the Learning Sciences. Nashville, TN.
- Bye, J. K., Chuang, P., **Anthony, L. E.,** & Cheng, P. W. (2020, Apr 17-21) Teaching the purpose and meaning of algebraic variables through systems-of-equations story problems: Multimedia approaches. [Poster Session]. AERA Annual Meeting. San Francisco, CA <http://tinurl.com/rzgobyl> (Conference Canceled)

INVITED TALKS/LECTURES

University of Wisconsin-Madison, Department of Psychology	Madison, WI
<i>Invited Speaker, Psychology Department Annual Teaching Conference</i>	Oct 2025
Presentation Title: Large Lecture Discussion Activity: “Psychology in the News”	
<i>Guest Lecturer, Introduction to Psychology</i>	Mar 2024
Lecture topics: Associative Learning, Psychology of Academic Learning	

HONORS & AWARDS

University of Wisconsin-Madison, Department of Psychology	Madison, WI
Capstone Teaching Award	2026
A competitive campus-wide award recognizing graduate students with an outstanding teaching record over the course of their UW–Madison tenure	
Serendipity Award	2025
Conference Travel Award	2022, 2025
Meritorious Service Award	2024
Menzies Research Award	2021, 2023, 2025, 2026
Distinguished Service Award	2022

GRANTS & FELLOWSHIPS

UW-Madison Department of Psychology Student Research Grant	2023
National Science Foundation LUCID Training Fellowship	2019 – 2021

ACADEMIC SERVICE

University of Wisconsin-Madison	Madison, WI
<i>Committee Member, Sharon M. Guten Colloquium Series</i>	Aug 2019 – May 2023
Positions held:	
- Chair (2021-2022) - Treasurer (2020-2021)	
<i>Committee Member, Social Events Committee</i>	Aug 2020 – Dec 2022

AD HOC REVIEWER

<i>Cognitive Science Society Annual Meeting (CogSci)</i>	Feb 2026
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Educational Studies in Mathematics
Journal of Experimental Child Psychology
Technology, Mind, & Behavior

Jul 2025
Jun 2025
Nov 2022

PROFESSIONAL EXPERIENCE

Galin Education

Academic and Test Prep Tutor

University of Wisconsin-Madison

Project Assistant, Department of Psychology

- Analyzed departmental data on undergraduate and graduate student experiences and departmental culture

Course Content Editor, Department of Psychology

- Assisted in updating online Introduction to Psychology course

Stone by Stone Education

Academic and Test Prep Tutor

Madison, WI
Jul 2023 – Present
Madison, WI
Aug 2023 – Dec 2023
Mar 2022 – May 2022
Santa Monica, CA
Aug 2015 – Dec 2017

REFERENCES

Martha Alibali
University of Wisconsin-Madison
Professor, Department of Psychology
Relationship: Ph.D. Advisor
520 Psychology
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Relationship: Collaborator & Dissertation committee member
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