

Dominique Lopiccolo

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EDUCATION

University of Delaware | Newark, DE

Aug 2023 – Present

Ph.D. Student, Interdisciplinary Neuroscience

UNIDEL Graduate Student Scholar

Boston University | Boston, MA

Sep 2016 – May 2019

M.A., Applied Linguistics

Concentration: Multilingualism and Cognition

Liberty University | Lynchburg, VA

Aug 2012 – May 2016

B.A. with Honors, Teaching English as a Second Language

Minors: Linguistics, Spanish, and English

PUBLICATION & PRESENTATIONS

Lopiccolo, D., & Chang, C. B. (2021). Cultural factors weaken but do not reverse left-to-right spatial biases in numerosity processing: Data from Arabic and English monoliterates and Arabic-English biliterates. *PLoS ONE*. 16(12), e0261146.

Redican, E., **Lopiccolo, D.**, Viegut, A. A., Resnick, I., Newcombe, N. S., & Jordan, N. C. (2024, June). *Effects of playful learning activities on first graders' early fraction knowledge*. Symposium presentation at the 2024 Mathematical Cognition and Learning Society Conference. Washington, D.C., U.S.

Lopiccolo, D., Hamami, Y., Amalric, M., & Hafri, A. (2024, May). Geo-mentum: Exploring a geometric bias using representational momentum. Poster presented at the 24th Annual Meeting of the Vision Sciences Society. St. Pete Beach, FL, U.S.

Carvalho Pereira, J., Elliott, L., Duong, S., Kotahari, D., **Lopiccolo, D.**, Bachman, H., Votruba-Drzal, E., & Libertus, M. (2023, March). *Are some math talk types more/less related to concurrent math skills? Examining preschoolers' quantifier talk*. Poster presented at the 2023 Biennial Meeting of the Society for Research in Child Development. Salt Lake City, UT, U.S.

Duong, S., Carvalho Pereira, J., **Lopiccolo, D.**, Votruba-Drzal, E., Bachman, H., & Libertus, M. (2023, March). *Beneath counts: Exploring the dynamics of caregiver-child conversations about numbers and math in two semi-structured activities*. Poster presented at the 2023 Biennial Meeting of the Society for Research in Child Development. Salt Lake City, UT, U.S.

Lopiccolo, D. (2023, February). *Culture effects (or the lack thereof) on the mental number line*. Invited (virtual) talk at the Numerical Cognition Laboratory at the University of Western Ontario. London, Ontario, Canada.

Lopiccolo, D., & Chang, C. B. (2021, November). *Cultural factors weaken but do not reverse left-to-right biases in numerosity processing: Data from readers of Arabic and English*. Poster presented at the 62nd Annual Meeting of the Psychonomic Society. New Orleans, LA, U.S.

Lopiccolo, D. (2017, March). *The effects of script direction and thematic role on spatial agency bias*. Proposal presented at the Boston University Graduate Linguistics Research Forum. Boston, MA, U.S.

Lopiccolo, D. (2016, April). *Exploring shared pitch dimensions in music and Mandarin Chinese: An interdisciplinary approach to L2 Mandarin tone acquisition*. Paper presented at the 44th Annual Meeting of the Southern Regional Honors Council. Orlando, FL, U.S.

Lopiccolo, D. (2016, March). *Language is cognition*. Paper presented at the 2016 Sigma Tau Delta International Convention. Minneapolis, MN, U.S.

Lopiccolo, D. (2015, April). *Adaptation strategies for the translation of Western hymns to Asian tonal languages*. Paper presented at the 2015 Biennial Big South Undergraduate Research Symposium. Buies Creek, NC, U.S.

SCHOLARSHIPS, GRANTS, FELLOWSHIPS, & AWARDS

UNIDEL Graduate Student Scholarship (Aug 2023)

University of Delaware

NSF Conference Travel Award (July 2022)

International Mind, Brain, and Education Society

English Language Fellowship (May 2020)

U.S. Department of State

Fulbright Scholarship (Sep 2019)

U.S. Department of State

CURA Institute Travel Grant (April 2019)

Boston University Institute for Culture, Religion, and World Affairs

PAM Lab Research Grant (Oct 2018)

Boston University Phonetics, Acquisition, and Multilingualism Lab

Honors Scholarship (Aug 2012)

Liberty University

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Delaware

Aug 2023 – Aug 2024

Early Fractions Project, Dr. Nancy Jordan (PI)

Newark, DE, U.S.

- Conducted behavioral research with first-grade children in schools
- Ran statistical models for a longitudinal dataset

Research Assistant, University of Pittsburgh

July 2022 – Aug 2023

Parents Promoting Early Learning Project, Dr. Melissa Libertus (PI)

Pittsburgh, PA, U.S.

- Conducted behavioral testing with children (2-5 years) and adults (25+ years)
- Led recruitment events across the greater Pittsburgh area
- Analyzed video recordings of caregiver-child interactions during spatial and number tasks

Research Assistant, Vanderbilt University*Aug 2021 – June 2022*

Numerical Brain Lab, Dr. Gavin Price (PI)

Nashville, TN, U.S.

- Conducted behavioral and functional magnetic resonance imaging (fMRI) research with children (6-10 years) and adults (18+ years)
- Processed, scored, and organized data using MATLAB, R, and REDCap
- Trained and supervised undergraduate and master's student research assistants

Graduate Student Researcher, Boston University*May 2018 – May 2019*Master's Project: <https://osf.io/fq8ka/>*Boston, MA, U.S.*

- Designed experiment materials in Arabic and English using Praat, Qualtrics, OpenSesame Experiment Builder, and MATLAB
- Recruited and tested over 200 participants in the U.S. and Jordan
- Conducted data cleaning, analyses, and visualizations in R

TEACHING EXPERIENCE

Teaching Assistant, University of Delaware*Aug 2024 – Present**Newark, DE, U.S.*

CGSC 170, Introduction to Cognitive Science

- Assisted an undergraduate course with over 100 students
- Graded assignments, provided feedback, and held office hours

University Lecturer, University of Petra*Sep 2019 – March 2020**Amman, Jordan*

- Taught English courses to undergraduate English majors

Lead Instructor, ASC English School*April 2017 – May 2019**Boston, MA, U.S.*

- Taught adult ESL (English as a second language) courses
- Taught TOEFL and ISEE preparatory courses

ADVISING EXPERIENCE

Sophia Surdovel*May 2024 – Aug 2024*

Undergraduate Summer Scholar, University of Delaware

Project Title: "Investigating whole number bias in first graders' informal fraction learning"

ACADEMIC SERVICE

Mentor Program Liaison, Neuroscience Graduate Student Association*Jan 2024 – Present**Interdisciplinary Neuroscience Graduate Program, University of Delaware*

- Managed mentoring opportunities for UD alumni and current students in the interdisciplinary neuroscience PhD program
- Planned and executed social events for neuroscience graduate students
- Advocated for graduate student program concerns at monthly Executive Committee meetings

Moderator, We Represent*June 2021**2021 We Represent Conference*

- Supported DEI efforts for the U.S. Department of State by leading virtual application writing workshops for the Fulbright and Gilman Scholarships

Volunteer Chairperson, Boston University

Aug 2017 – March 2018

42nd Annual Boston University Conference on Language Development

- Recruited, trained, and organized schedules for over 100 volunteers
- Reviewed and edited conference proceedings

PROFESSIONAL MEMBERSHIPS

Mathematical Cognition and Learning Society
International Mind, Brain, and Education Society
Society for Philosophy and Psychology

Cognitive Science Society
Vision Sciences Society
Psychonomic Society

SKILLS

- R, Python, REDCap, Git(Hub), interpersonal communication, curriculum development, organization, public speaking

LANGUAGES

- Spanish B1 Intermediate ([based on CEFR system](#))
- Arabic (Levantine dialect) A2 Beginner

INTERNATIONAL WORK

Syrian Refugee Aid Worker (Al Mafraq, Jordan)
Mafraq Alliance Church

Nov 2018, Feb 2020

English Instructor (Te Awamutu, New Zealand)
New International Builder's Community

May 2015 – Aug 2015

Youth Program Leader (San Isidro de Heredia, Costa Rica)
Sonlife Latinoamérica

July 2012

Youth Program Leader (Juan Dolio, Dominican Republic)
SCORE International

Dec 2011

REFERENCES

Dr. Alon Hafri
University of Delaware

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Dr. Nancy Jordan
University of Delaware

njordan@udel.edu
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Dr. Melissa Libertus
University of Pittsburgh

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Dr. Gavin Price
University of Exeter (formerly at Vanderbilt University)

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Dr. Charles B. Chang
Boston University

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Dr. Daniel Erker
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More References Available Upon Request