

# Dominique Lopiccolo

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## EDUCATION

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**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

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† Denotes equal contribution

**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 24<sup>th</sup> 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 62<sup>nd</sup> 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 44<sup>th</sup> 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**

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### **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**

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### **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 region
- Coded 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, E-Prime, R, and REDCap
- Trained and supervised undergraduate and master's student research assistants

**Graduate Student Researcher, Boston University***May 2018 – Dec 2021*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
- Ran statistical tests and generated data visualizations in R

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**ADVISING EXPERIENCE****Sophia Surdovel***May 2024 – Present*

Undergraduate Summer Scholar, University of Delaware

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

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**ACADEMIC SERVICE****Mentor Program Liaison, Neuroscience Graduate Student Association***Jan 2024 – Present*

University of Delaware

- Recruited and facilitated mentoring opportunities for UD alumni and current UD graduate students in the interdisciplinary neuroscience program
- Planned and executed social events for neuroscience graduate students and faculty

**Volunteer, Society for Philosophy and Psychology***June 2023*49<sup>th</sup> Annual Meeting of the Society for Philosophy and Psychology

- Introduced speakers to the general audience and provided A/V support

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

2021 We Represent Conference

- Supported DEI efforts for U.S. Department of State-funded programs (Fulbright, Gilman, Boren, CLS) by leading virtual writing workshops

**Volunteer Chairperson, Boston University***Aug 2017 – March 2018*42<sup>nd</sup> Annual Boston University Conference on Language Development

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

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**PROFESSIONAL MEMBERSHIPS**

Mathematical Cognition and Learning Society

Cognitive Science Society

International Mind, Brain, and Education Society

Society for Philosophy and Psychology

Vision Sciences Society

## SKILLS

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

## LANGUAGES

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

## INTERNATIONAL WORK

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**Syrian Refugee Aid Worker (Al Mafraq, Jordan)** *Nov 2018, Feb 2020*  
Mafraq Alliance Church

**English Instructor (Te Awamutu, New Zealand)** *May 2015 – Aug 2015*  
New International Builder's Community

**Youth Program Leader (San Isidro de Heredia, Costa Rica)** *July 2012*  
Sonlife Latinoamérica

**Youth Program Leader (Juan Dolio, Dominican Republic)** *Dec 2011*  
SCORE International

## REFERENCES

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<b>Dr. Alon Hafri</b> University of Delaware	alon@udel.edu +1 302-831-3851
<b>Dr. Nancy Jordan</b> University of Delaware	njordan@udel.edu +1 302-831-4651
<b>Dr. Melissa Libertus</b> University of Pittsburgh	libertus@pitt.edu +1 412-624-7457
<b>Dr. Gavin Price</b> University of Exeter (formerly at Vanderbilt University)	g.price5@exeter.ac.uk +44 139-272-5527
<b>Dr. Charles B. Chang</b> Boston University	cc@bu.edu +1 617-353-8718
<b>Dr. Daniel Erker</b> Boston University	danerker@bu.edu +1 617-353-6211

*More References Available Upon Request*