

# Dominique Lopiccolo

domlopneuro@gmail.com · [dominique-lopiccolo.github.io](https://dominique-lopiccolo.github.io) · Delaware, U.S.A.

## 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

## 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*

## PUBLICATION

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**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.

## PRESENTATIONS

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**Lopiccolo, D. & Hafri, A.** (2025, May). Representational momentum for spatial scaling. Poster accepted at the 25<sup>th</sup> Annual Meeting of the Vision Sciences Society. St. Pete Beach, FL, U.S.

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.

## 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)
- 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**

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**Teaching Assistant, University of Delaware***Aug 2024 – Dec 2024**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

**ADVISEES**

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**Jessica Sitlinger***Dec 2024 – Feb 2025*

Undergraduate Winter Fellow, University of Delaware

Project Title: "How does numeracy skills relate to early informal fraction knowledge?"

**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**

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

- Managed mentoring opportunities for UD alumni and neuroscience PhD 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*

*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

## **PROFESSIONAL MEMBERSHIPS**

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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**

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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)**  
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**

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**Dr. Alon Hafri**  
University of Delaware

alon@udel.edu  
+1 302-831-3851

**Dr. Nancy Jordan**  
University of Delaware

njordan@udel.edu  
+1 302-831-4651

**Dr. Christina Barbieri**  
University of Delaware

barbieri@udel.edu  
+1 302-831-4863

**Dr. Melissa Libertus**  
University of Pittsburgh

libertus@pitt.edu  
+1 412-624-7457

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

g.price5@exeter.ac.uk  
+44 139-272-5527

**Dr. Charles B. Chang**  
City University of Hong Kong (formerly at Boston University)

cbchang@post.harvard.edu

*More References Available Upon Request*