

# Dominique Lopiccolo

[domlopneuro@gmail.com](mailto:domlopneuro@gmail.com) · [dominique-lopiccolo.github.io](https://dominique-lopiccolo.github.io) · [Newark, DE, U.S.](#)

## EDUCATION

---

**University of Delaware | Newark, DE, U.S.**

*Aug 2023 – Present*

Ph.D. Student, Interdisciplinary Neuroscience  
UNIDEL Graduate Student Scholar

**Boston University | Boston, MA, U.S.**

*Sep 2016 – May 2019*

M.A., Applied Linguistics  
Concentration: Multilingualism and Cognition

**Liberty University | Lynchburg, VA, U.S.**

*Aug 2012 – May 2016*

B.A. with Honors, Teaching English as a Second Language  
Minors: Linguistics, Spanish, and English

## 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*

## PUBLICATIONS

---

**Lopiccolo, D., & Hafri, A. (2025).** Representational momentum for spatial scaling. *Journal of Vision*, 25(9), 2634-2634.

**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

---

*\* denotes equal contribution*

**Lopiccolo, D. (2025, June).** *Geomentum: Where visual processing and geometric reasoning meet.* Talk presented at the 2025 Higher Level Math Cognition Workshop. Collège de France, Paris, France

**Lopiccolo, D. & Hafri, A. (2025, May).** *Representational momentum for spatial scaling.* Poster presented 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.**, & 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*. Talk 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

---

### 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**

---

**Teaching Assistant, University of Delaware**

*Aug 2024 – Dec 2024, Feb 2025 – May 2025*

*Newark, DE, U.S.*

CGSC 170, Introduction to Cognitive Science

- Assisted an undergraduate course with over 100 students
- Graded assignments, provided feedback, held office hours, and led exam study sessions
- Developed and taught original content for numerical cognition lecture

**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**

---

**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**

---

**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*

*We Represent Conference*

- Led two virtual writing workshops for undergraduate students from across the U.S. interested in applying to 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**

---

Mathematical Cognition and Learning Society

Cognitive Science Society

International Mind, Brain, and Education Society

Vision Sciences Society

Society for Philosophy and Psychology

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

## **REFERENCES**

---

**Dr. Alon Hafri**, U. of Delaware

[alon@udel.edu](mailto:alon@udel.edu)

**Dr. Nancy Jordan**, U. of Delaware

[njordan@udel.edu](mailto:njordan@udel.edu)

**Dr. Melissa Libertus**, U. of Pittsburgh

[libertus@pitt.edu](mailto:libertus@pitt.edu)

**Dr. Gavin Price**, U. of Exeter (previously Vanderbilt U.)

[g.price5@exeter.ac.uk](mailto:g.price5@exeter.ac.uk)

**Dr. Charles Chang**, City U. of Hong Kong (previously Boston U.)

[cbchang@post.harvard.edu](mailto:cbchang@post.harvard.edu)

**Dr. Daniel Erker**, Boston U.

[danerker@bu.edu](mailto:danerker@bu.edu)

*More References Available Upon Request*