

Karl Mulligan

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Krieger Hall, Room 239

Dept. of Cognitive Science, Johns Hopkins University

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Education

- 2019 – Present **Johns Hopkins University** – Baltimore, MD
PhD in Cognitive Science (expected)
- 2019 – 2021 **Johns Hopkins University** – Baltimore, MD
MA in Cognitive Science
- 2015 – 2019 **Rutgers University** – New Brunswick, NJ
BS in Computer Science, Linguistics, Cognitive Science

Research experience

- Summer 2018 **Jelinek Workshop on Speech and Language Technology** – Baltimore, MD
Center for Language and Speech Processing, Johns Hopkins University
PI: Lucia Specia (ICL, Sheffield) • Mentor: Desmond Elliott (Copenhagen)
- Summer 2017 **CSLI Summer Internship Program** – Stanford, CA
Center for the Study of Language and Information, Stanford University
PI: Noah D. Goodman • Mentors: Robert D. Hawkins, Judith Fan
- Summer 2016 **Aresty Summer Science Program** – Piscataway, NJ
Aresty Research Center, Rutgers University
PI: Karin Stromswold

Publications

- 2022 **Mulligan, Karl**, and Kyle Rawlins. “A Compositional Semantics for Spatial Perspective-Shifting Adjuncts.” In *Proceedings of the West Coast Conference on Formal Linguistics (WCCFL)*, 40. Stanford, CA (Online).
- 2021 **Mulligan, Karl**, Robert Frank, and Tal Linzen. “Structure Here, Bias There: Hierarchical Generalization by Jointly Learning Syntactic Transformations.” In *Proceedings of the Society for Computation in Linguistics (SCiL)*, 4:125–35. Online.

- 2020 Specia, Lucia, et al. (incl. **Karl Mulligan**). “Grounded Sequence to Sequence Transduction.” *IEEE Journal of Selected Topics in Signal Processing* 14, no. 3: 577–91.

Conference talks

- 2021 **Mulligan, Karl**, Robert Frank, and Tal Linzen. “Structure Here, Bias There: Hierarchical Generalization by Jointly Learning Syntactic Transformations.” *Society for Computation for Linguistics (SCiL)* 4. Online.

Posters

- 2019 **Mulligan, Karl**, Aldo Mayro, Paul de Lacy, Gwendolyn Rehrig, Karin Stromswold. (presented by Megan Kenny). “Who lengthened my verb stem? Prosodic words and phrases.” *90th Annual Meeting of the Eastern Psychological Association*. New York, NY.

Non peer-reviewed posters and presentations

- 2021 **Mulligan, Karl**. “A Compositional Semantics for Spatial Perspective-Shifting Adjuncts.” Brown Bag talk series, JHU Cognitive Science. Baltimore, MD.
- 2017 **Mulligan, Karl**, Robert D. Hawkins, Judith Fan. “Communicating about objects in context.” Talk given at the conclusion of the 4th Annual Center for the Study of Language and Information (CSLI) Summer Internship Program. Stanford, CA.
- 2017 **Mulligan, Karl**. Aldo Mayro, Paul de Lacy, Gwendolyn Rehrig, Karin Stromswold. “Effects of verb stem lengthening by sentence construction.” Poster presented at the 11th Annual Rutgers Center for Cognitive Science (RuCCS) Perceptual Science Forum. Piscataway, NJ.

Teaching experience

- Spring 2022 **Bilingualism**, Teaching Assistant
Johns Hopkins University
- Fall 2021 **Semantics**, Teaching Assistant
Johns Hopkins University
- Spring 2021 **Phonology**, Teaching Assistant
Johns Hopkins University
- Spring 2020 **Language and Thought**, Teaching Assistant
Johns Hopkins University

Honors and awards

2020	NSF Graduate Research Fellowship Program , Honorable Mention
2019	Paul Robeson Scholar , School of Arts and Sciences, Rutgers
2019	Award for Academic Excellence , Department of Linguistics, Rutgers
2018-2019	Phi Beta Kappa
2015-2019	Dean's List (x8), Rutgers
2015	Alpha Delta Phi Literary Competition , 1st Prize
2015	Presidential Scholarship , Rutgers (4-year full tuition, room, board)
2015	National Merit Scholar

Service

2022	Omega Psi "Applying to Graduate School" Panel , panelist
2021-Present	Colloquium Committee , JHU CogSci, member
2021-Present	Prospective Student Mentoring Program , JHU CogSci, mentor

Technical skills

Programming languages

Python, Javascript, R, SQL, Markdown

Software

Unix Shell, \LaTeX , Git, Praat

(Natural) languages

English (native), Spanish (advanced), French (beginner), Mandarin (spoken only)