

# Tyler Zarus Knowlton

## Current Address

1413H Marie Mount Hall  
7814 Regents Drive  
College Park, MD 20742

## Contact Information

tzknowlt@umd.edu  
tylerknowlton.com  
(856) 287-6942

## Education

Ph.D. (expected) Linguistics	2021
Advisors: <a href="#">Jeffrey Lidz</a> and <a href="#">Paul Pietroski</a>	
University of Maryland, College Park, MD	
B.A. Cognitive Science (with honors)	2015
Minors in Linguistics, Philosophy, and Psychology	
Johns Hopkins University, Baltimore, MD	

## Awards and Honors

Jacob K. Goldhaber Travel Grant	2018
<a href="#">NSF Research Traineeship</a> (NRT-DESE #1449815)	2017
Maryland Language Science Fellowship	2017
Owen Scholars Fellowship (declined)	2016
Phi Beta Kappa	2015
Cognitive Science Departmental Honors	2015
Johns Hopkins University Honors	2015
Provost's Undergraduate Research Award	2014

## Publications

**Knowlton, T.**, Pietroski, P., Halberda, J., and Lidz, J. (under review) *The mental representation of universal quantifiers*. [[lingbuzz](#)]

## Presentations

### Conference Talks

Cesana-Arlotti, N., **Knowlton, T.**, Lidz, J., and Halberda, J. (2020) *An investigation of the origins of logical quantification: infants' (and adults') representations of exhaustivity in collective or individual complex actions*. Symposium on Learning 'hard words', XXII International Congress of Infant Studies (ICIS) Biennial Congress, Glasgow, Scotland.

**Knowlton, T.**, Pietroski, P., Williams, A., Halberda, J., and Lidz, J. (2020) *Conservative meanings with only one set: evidence from verification*. 33rd CUNY Conference on Human Sentence Processing, UMass Amherst.

**Knowlton, T.**, Pietroski, P., Halberda, J., and Lidz, J. (2019) *The mental representation of universal quantifiers: evidence from verification*. 32nd CUNY Conference on Human Sentence Processing, CU Boulder.

**Knowlton, T.**, Halberda, J., Pietroski, P., and Lidz, J. (2018) *Acquiring the universal quantifiers: every part together or each part on its own?* Boston University Conference on

## Conference Posters

- Cesana-Arlotti, N., **Knowlton, T.**, Lidz, J., and Halberda, J. (2020) *An investigation of the origins of logical quantification: infants' (and adults') representations of exhaustivity in collective or individual complex actions*. Society for Philosophy and Psychology (SPP) 46th Annual Meeting, Princeton.
- Knowlton, T.**, Pietroski, P., Williams, A., Halberda, J., and Lidz, J. (2020) *Conservativity is not a filter on possible meanings*. Semantics and Linguistic Theory (SALT) 30, Cornell.
- Cesana-Arlotti, N., **Knowlton, T.**, Lidz, J., Pietroski, P., and Halberda, J. (2019) *Concepts of universal quantification ("each" and "all") may support infant and adult understanding of collective and distributive actions*. Cognitive Development Society (CDS) 2019 Biennial Meeting, Louisville, KY.
- Knowlton, T.**, Halberda, J., Pietroski, P., and Lidz, J. (2019) *A novel memory task reveals early understanding of quantifier meanings*. Society for Research in Child Development (SRCD) 2019 Biennial Meeting, Baltimore, MD.
- Knowlton, T.**, Pietroski, P., Halberda, J., and Lidz, J. (2019) *Representational format and universal quantifiers*. Linguistic Society of America (LSA) Annual Meeting 2019, New York, NY.
- Perkins, L., **Knowlton, T.**, Williams, A., and Lidz, J. (2018) *Matching number vs. linking roles: Using 3-participant scene percepts to understand infants' bootstrapping*. Boston University Conference on Language Development (BUCLD) 43, Boston, MA.
- Knowlton, T.**, Perkins, L., Williams, A., and Lidz, J. (2018) *Getting a grip on infants' event representations: participant number in TAKE and PICK-UP*. XXI International Congress of Infant Studies (ICIS) Biennial Congress, Philadelphia, PA.
- Knowlton, T.**, Wong, A., Halberda, J., Pietroski, P., and Lidz, J. (2018) *Different determiners, different algorithms: Two majority quantifiers in Cantonese bias distinct verification strategies*. 31st CUNY Conference on Human Sentence Processing, UC Davis.
- Knowlton, T.**, Halberda, J., Pietroski, P., and Lidz, J. (2017) *Sentences, centers, and sets: Set selection and the meanings of more and most*. Cognitive Development Society (CDS) Biennial Meeting, Portland, OR.
- Knowlton, T.**, Halberda, J., Pietroski, P., and Lidz, J. (2017) *Distinguishing first- from second-order specifications of each, every, and all*. Mid-Atlantic Colloquium of Studies in Meaning (MACSIM) 7, Georgetown.
- Knowlton, T.**, Halberda, J., Pietroski, P., and Lidz, J. (2017) *Set selection and storage reflect differences in quantifier meanings*. McDonnell Network Plenary Workshop on "The Ontogenetic Origins of Combinatorial Thought", UCSD.
- Perkins, L., **Knowlton, T.**, Hirzel, M., Dudley, R., Williams, A., and Lidz, J. (2017) *Linguistic and conceptual structure in verb learning*. McDonnell Network Plenary Workshop on "The Ontogenetic Origins of Combinatorial Thought", UCSD.

## Invited Talks

- Knowlton, T.** (2019) *The psychological treatment of (universal) quantification*. Integrated Language Sciences and Technology Seminar, University of Pennsylvania.

**Knowlton, T.** (2018) *Are natural language quantifiers first- or second-order?* McDonnell Network Focused Workshop on “The Development of Set and Quantifier Representations”, Johns Hopkins.

## Teaching and Mentorship

### Teaching Experience

#### *University of Maryland*

Instructor, Language and Thought (LING449T)	Spring 2020
Designed and taught 10 student seminar	
TA, Grammar and Meaning (LING410; Instructor: Valentine Hacquard)	Fall 2019
Duties: grading, office hours, reviewing p-sets in class, once teaching ~25 student lecture	
TA, Child Language Acquisition (LING444; Instructor: Jeffrey Lidz)	Spring 2019
Duties: grading, office hours, helping write exams, once teaching ~20 student lecture	
TA, Language and Mind (LING240; Instructor: Tonia Bleam)	Fall 2018
Duties: grading, office hours, review sessions, twice teaching ~50 student lecture	
TA, Introductory Linguistics (LING200; Instructor: Tonia Bleam)	Spring 2018
Duties: weekly discussion section of ~30 students, grading, office hours	

### Mentorship

#### *University of Maryland*

High school summer intern mentor, <a href="#">Project on Children’s Language Learning</a>	2019
Responsible for mentoring high school research assistant S. Chervenak and supervising his final paper & science fair poster presentation	
Undergraduate mentor, <a href="#">Project on Children’s Language Learning</a>	2018-
Responsible for mentoring undergraduate research assistants M. Lauchman, M. Aiyad, D. Lahori, T. Hudson, M. Griffith, & S. Deshpande and supervising their end-of-term poster presentations	

#### *Johns Hopkins University*

Undergraduate mentor, <a href="#">Vision and Cognition Lab</a>	2015-16
Responsible for mentoring undergraduate research assistants A. Wong, S. Akmal, A. Vadaparty, I. Perone, & L. Grau and supervising their term papers	

### Research Experience

Research Assistant, <a href="#">Project on Children’s Language Learning</a> , College Park, MD	2016-
PURA Fellow, <a href="#">Language Processing and Development Lab</a> , Baltimore, MD	2014-16
Lab Manager, <a href="#">Vision and Cognition Lab</a> , Baltimore, MD	2014-16
Research Assistant, <a href="#">Vision and Cognition Lab</a> , Baltimore, MD	2012-13
Research Intern, Coriell Institute for Medical Research, Camden, NJ	2012

## Academic Activities

### Service

Mayfest 2020: <a href="#">Hindsight</a> Organizing Committee	2019-
<a href="#">Linguistics Colloquium</a> Committee	2019-
Developmental Science Workshop Co-Organizer (with Z. Ovens & M. Hirzel), <i>Endless Possibilities: The Development of Possibility and Necessity in Cognition, Language, and Society</i>	2018-19
Chair, <a href="#">Language Science Outreach Committee</a>	2018-19
<a href="#">Winter Storm 10</a> Planning Committee	2017-18
Co-chair (with S. Thivierge), Linguistics Graduate Student Association	2017-18
Career fair coordinator, <a href="#">Language Science Outreach Committee</a>	2016-18
<a href="#">Winter Storm 9</a> Planning Committee	2016-17
<a href="#">SALT27</a> Organizing Committee	2016-17

### Ad Hoc Reviewer

Language Learning and Development

### Professional Memberships

Society for Research in Child Development	2019-
International Congress of Infant Studies	2017-
Cognitive Development Society	2017-
Linguistic Society of America	2015-

### Skills

Technical:	R, PsychoPy (python), L <sup>A</sup> T <sub>E</sub> X, Linger, PsyToolkit, Habit, HTML/CSS, JavaScript, Psychtoolbox (MATLAB), Adobe Premiere, Git, PsyScope X, PsyCode
Experimental:	Visual Psychophysics, Habituation-switch, Self-paced reading (including with eye-tracking)

[updated 2/26/2020]