Tyler Zarus Knowlton

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Education

Ph.D. (expected) Linguistics   2021
Advisors: Jeffrey Lidz and Paul Pietroski
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
NSF Research Traineeship (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

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 Language Development (BUCLD) 43, Boston, MA.

Conference Posters

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, Project on Children's Language Learning   2019
Responsible for mentoring high school research assistant S. Chervenak
and supervising his final paper & science fair poster presentation

Undergraduate mentor, Project on Children's Language Learning   2018-
Responsible for mentoring undergraduate research assistants M. Lauchman,
M. Aiyad, D. Lahori, & T. Hudson and supervising their end-of-term poster presentations

Johns Hopkins University

Undergraduate mentor, Vision and Cognition Lab   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, Project on Children's Language Learning, College Park, MD   2016-

PURA Fellow, Language Processing and Development Lab, Baltimore, MD   2014-16

Lab Manager, Vision and Cognition Lab, Baltimore, MD   2014-16

Research Assistant, Vision and Cognition Lab, Baltimore, MD   2012-13

Research Intern, Coriell Institute for Medical Research, Camden, NJ   2012

Academic Activities

Service

Mayfest 2020: Hindsight Organizing Committee   2019-

Linguistics Colloquium Committee   2019-

Developmental Science Workshop Co-Organizer (with Z. Ovans & M. Hirzel),   2018-19
*Endless Possibilities: The Development of Possibility and Necessity in Cognition,
Language, and Society*

Chair, Language Science Outreach Committee   2018-19

Winter Storm 10 Planning Committee   2017-18

Co-chair (with S. Thivierge), Linguistics Graduate Student Association   2017-18

Career fair coordinator, Language Science Outreach Committee	2016-18
Winter Storm 9 Planning Committee	2016-17
SALT27 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), LaTeX, 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 12/17/2019]