

# Kathryn D. Schuler

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## Current position

Assistant Professor of Linguistics, University of Pennsylvania (2017 - present)

## Education

Ph.D. (2017) in Neuroscience, Georgetown University

B.A. (2010) in Brain and Cognitive Sciences, University of Rochester

## Honors & awards

Paula Menyuk Travel Award, Boston University Conference on Language Development (2017)

Robert J. Glushko and Pamela Samuelson Foundation Travel Award, Cognitive Science Society (2016)

Cognitive Science Fellowship (declined), Northwestern University (2012)

New York Leaders of Tomorrow Scholarship, New York State Lottery (2002-2006)

Salutatorian Scholarship, Elmira College (2002-2004)

Frederick Douglass and Susan B. Anthony Award in Humanities and Social Sciences, University of Rochester (2002)

## Publications

### MANUSCRIPTS AND PREPRINTS

1. Schuler, K.D., Yang, C., & Newport, E.L. (in prep) Children form productive rules when it is more computationally efficient.
2. Austin, A.\*, Schuler, K.D.\*, Furlong, S. & Newport, E.L. (under review) Learning a language from inconsistent input: Regularization in child and adult learners. *Language Learning and Development* co-first author [[preprint](#)]
3. Fama, M.E., Schuler, K.D., Newport, E.L., & Turkeltaub, P.E. (under review) Impacts of healthy aging and left hemisphere stroke on statistical language learning. *Language Cognition and Neuroscience*
4. Schuler, K.D., Lukens, K., Reeder, P.A., Newport, E.L. & Aslin, R.N. (under review) Children can use distributional cues to acquire grammatical categories. *Cognition*.

## PAPERS

1. Chen, Y.\*\* & Schuler (2021) Does Learner's preference match the typological pattern of Animacy Hierarchy in morphological marking? *Proceedings of the 43rd Annual Penn Linguistics Conference*, University of Pennsylvania Working Papers in Linguistics.
2. Schuler, K. D., Kodner, J., & Caplan, S. (2020). Abstractions are good for brains and machines: A commentary on Ambridge (2020). *First Language*
3. Culbertson, J.C. & Schuler, K.D. (2019). Artificial language learning in children. *Annual Review of Linguistics*.
4. Schuler, K.D., Reeder, P.A., Newport, E.L., & Aslin, R.N. (2017) The effect of Zipfian frequency variations on category formation in adult artificial language learning. *Language Learning and Development*.
5. Schuler, K.D., Yang, C. & Newport, E.L. (2016). Testing the Tolerance Principle: Children form productive rules when it is more computationally efficient to do so. In Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) *Proceedings of the 38th annual meeting of the cognitive science society*. Austin, TX: Cognitive Science Society.
6. Schwab, J.F., Schuler, K.D., Stillman, C.M., Newport, E.L. Howard, J.H., & Howard, D.V. (2016) Aging and the Statistical Learning of Grammatical Form Classes. *Psychology and Aging*, 2016, 31, 481-487. 2010
7. Booth, A.E., Schuler, K., & Zajicek, R. (2010). Specifying the role of function in infant categorization. *Infant Behavior and Development*, 33(4), 672-684.

\*equal contribution, \*\*trainee coauthor

## Conference presentations

1. Alberski, A.\*\* & Schuler, K. (forthcoming) The role of language context in the acquisition of novel words. *CUNY 2021*
2. Li, D.\*\* & Schuler, K. (forthcoming) Acquiring recursive structures through distributional learning. *CUNY 2021*
3. Alberski, A.\*\* & Schuler, K. (forthcoming) Learning words in linguistic contexts: using language to fast-map and acquire partial knowledge. *SRCD 2021*
4. Kendrick, A.\*\* & Schuler, K. (2021) Adults do not regularize unpredictable language variation, even when learning from an unreliable speaker. *Talk presented at the 95th annual meeting of the Linguistic Society of America*. Virtual.
5. Nam, S.\*\* & Schuler, K. (2021) The influence of verb information on learning novel words. *Poster presented at the 95th annual meeting of the Linguistic Society of America* Virtual.
6. Pophristic, S.N.\*\* & Schuler, K. (2021) The role of gender in the acquisition of the serbian case system. *Poster presented at the 95th annual meeting of the Linguistic Society of America*. Virtual.
7. Schuler, K. & Chen, Y.\*\* (2021) Morphosyntactic variation is preserved, not regularized, when an optional form is rare. *LSA 2021 Talk presented at the 95th annual meeting of the Linguistic Society of America* Virtual.
8. Schuler, K. (2020) Children and adults condition variable rules on social context. *Poster presented at the 45th annual Boston University Conference on Language Development* Boston, MA
9. Chen, Y.\*\* & Schuler, K.D. (2020) Is an animate-marking rule easier to acquire than an inanimate-marking rule? *Poster at the 15th annual Congress of the International Association for the Study of Child Language* postponed.

10. Schuler, K.D. & Chen, Y.\*\* (2020) Morphosyntactic variation is preserved, not regularized, when an optional form is rare. *Talk at the Workshop on the Evolution of Morphological Systems, Evolution of Language International Conferences* postponed.
11. Chen, Y.\*\* & Schuler, K.D. (2020) Does Learner's preference match the typological pattern of Animacy Hierarchy in morphological marking? *Talk at the 44th annual Penn Linguistics Conference*.
12. Irani, A.\*\* & Schuler, K.D (2019) Children can acquire verb argument structure with sufficient positive evidence. *Poster presented at the 44th annual Boston University Conference on Language Development*. Boston, MA
13. Schuler, K.D., Horowitz, J.E., Yang, C., Newport, E.L. (2017) The threshold for regularization: When children will and will not regularize inconsistent language input. *Talk presented at the 41st annual Boston University Conference on Language Development*. Boston, MA
14. Schuler, K.D., Horowitz, J.E., Yang, C., Newport, E.L. (2017) The threshold for regularization: When children will and will not regularize inconsistent language input. *Poster presented at the 10th biennial meeting of the Cognitive Development Society*.
15. Schuler, K.D., Fama, M.E., Turkeltaub, P.E., & Newport, E.L. (2017) The time-course of statistical learning in patients with left hemisphere stroke. *Poster presented at the 9th annual meeting of the Society for the Neurobiology of Language*.
16. Schuler, K.D., Horowitz, J.E., Yang, C., Newport, E.L. (2017) The Sufficiency Principle: Predicting when children will regularize inconsistent language variation. *Poster presented at the 39th annual meeting of the Cognitive Science Society*.
17. Schuler, K.D., Yang, C. & Newport, E.L (2016) Children form productive rules when it is more computationally efficient to do so. *Poster presented at the Boston University Conference on Language Development*, Boston, MA
18. Schuler, K.D., Davis, J., Yang, C., Newport, E.L. (2015) Testing the tolerance principle for rule productivity in an artificial grammar. *Poster Presented at the 9th Biennial Meeting of the Cognitive Development Society*. Columbus, OH
19. Fama, M.E., Schuler, K.D., Spiegel, K.A., Lacey, E.H., Newport, E.L., & Turkeltaub, P.E. (2015) The effects of healthy aging and left hemisphere stroke on statistical language learning. *Poster presented at the Society for the Neurobiology of Language Conference*. Chicago, IL
20. Schuler, K.D., Aslin, R.N., Newport, E.L. (2015) The time-course of statistical learning across development: Word segmentation and syntax in a serial reaction time task. *Poster presented at the Boston University Conference on Language Development*. Boston, MA
21. Fama, M.E., Schuler, K.D., Spiegel, K.A., Lacey, E.H., Newport, E.L., & Turkeltaub, P.E. (2015) The effects of healthy aging and left hemisphere stroke on statistical language learning. *Poster presented at Georgetown Student Research Day*. Washington, DC.
22. Schuler, K.D., Newport, E.L. (2015) Using growth curve analysis to model the time-course of learning in serial reaction time tasks. *Poster presented at Georgetown Student Research Day*. Washington, DC.
23. Booth, A.E., Zajcek, R.L. & Schuler, K.D. (2010) How does function facilitate early categorization? Not by enhancing attention alone. *Poster presented at the International Conference on Infant Studies*.

\*\*trainee co-author

## Grants

Penn Research Recovery Grant, 01/21, \$12,190.00

## Invited talks

Cognitive Neuroscience Seminar, George Washington University (2020)  
Penn Linguistic Conference panel moderator (2020, postponed)  
Keynote at the Edinburgh Summer School in Artificial Language Learning (2020, postponed)  
Department of Linguistics Colloquium, NYU (2019)  
Integrated Language Science and Technology Seminar, Penn (2018)  
Center for Autism Research Science Meeting, CHOP (2018)  
Common Ground Seminar, Institute for Research on Cognitive Science (2016)

## Teaching & mentoring

### COURSES TAUGHT

University of Pennsylvania

LING 001 Intro to Linguistics (Spring 2020)  
LING 504 Neurolinguistics (Fall 2019 & 2020)  
LING 607 Topics in Psycholinguistics (Spring 2018-2019, 2021)  
LING 104 Language and the Brain (Fall 2018-2020)  
LING 507 Principles of Experiment Design (Spring 2018)

Georgetown University

ICOS 202 Research Modules in Cognitive Science, TA (2015, 2016)  
ICOS 201 Introduction to Cognitive Science, TA (2015)

### GRADUATE STUDENTS MENTORED

Yiran Chen - current graduate student

### COMMITTEE MEMBERSHIPS

Dissertations

Hong Zhang, Nattanun Chanchaochai, and Ava Irani

Dissertation proposals and qualifying papers

Ryan Budnick, Yosiane White, Spencer Caplan, Hong Zhang, Ava Creemers, Ava Irani, Nattanun Chanchaochai, Ollie Sayeed, Nikita Bezrukov and Andrea Ceolin.

### UNDERGRADUATES MENTORED

Honors thesis students

Sarah Nam, Penn undergrad, now MA student at Vanderbilt

Jessie Schwab, Georgetown undergrad, now Lecturer at Harvard

John Davis, Georgetown undergrad, now PhD student at Columbia

Research assistants and independent study students

Anna Alberski, Penn undergrad, current independent study student  
Iris Zhong, Smith undergrad, current RA  
Annalise Kendrick - Eckerd undergrad, current RA  
Stefan Pophristic - Penn UScholar, current RA  
Madison Reasnor - Penn undergrad, now lab manager at Penn's Computational Memory Lab  
Nate Serio - Rutgers undergrad, Beinecke scholar, former RA  
Jasmine Raj - Penn undergrad, now RA at Northwestern's Adolescent Development Lab  
Madison Connelly - Penn undergrad, now Research coordinator at Cleveland Clinic  
Jessica Burke - Penn undergrad, now PhD student at Columbia  
Penn undergraduate research mentoring program mentees  
Breasia Scott, Dorina Domi, and Ayyah Alhuraibi.

## Service

### DEPARTMENT

Graduate admissions committee (2019)  
Organizer and instructor for 4-day PsychoPy bootcamp (2018)  
Organizer and instructions for MATLAB tutorial, Georgetown (2015)  
Organizer for Functional and Neuroanatomical Imaging Group journal club, Georgetown (2012 - 2014)

### UNIVERSITY

UScholars faculty council member and research advisor (2020 - 2021)  
MindCORE education committee (2019 - 2021)  
Faculty facilitator for Owning your own educational story at Penn, first-gen initiative (2019-2020)  
Fulbright faculty committee (2018)

### FIELD

#### Committees and boards

Organizing committee for CUNY Sentence Processing Conference (2020)

#### Ad-hoc reviewer

Journals: Language, Memory and Cognition, Language Learning and Development, Cognitive Science, Cognition, Journal of Memory and Language, and Language Learning.

Conferences: Linguistic Society of America, Annual Meeting of the Cognitive Science Society, Boston University Conference on Language Development, Penn Linguistics Conference, Experiments in Linguistic Meaning, CUNY Sentence Processing Conference

#### Professional memberships

International Congress of Infant Studies, Cognitive Development Society, Cognitive Science Society, Society for Research on Child Development, Linguistic Society of America

## Outreach

### FIRST-GEN AND UNDERREPRESENTED MINORITY PERSISTENCE IN STEM

Penn First Plus, Work study and research information session panelist (2020)  
MindCORE Interdisciplinary faculty Q&A panelist (2020)  
MindCORE Working in research and academia, faculty panel for undergrads (2019)  
Preparing for your first year as a faculty member or postdoc, faculty panel (2019)  
Penn First Plus, working in research faculty panel (2019)  
Penn's Summer Workshop in Interdisciplinary Mind and Brain Studies (2018, 2019)  
Penn's First Two Years Program, faculty panel on women in science (2019)  
Career development workshop at Penn, faculty speaker (2018)  
Center for Teaching and Learning graduate student workshop, faculty speaker (2018)

### PUBLIC-FACING MATERIALS AND COMMUNITY EVENTS

Growing up in science talk, <https://mindcore.sas.upenn.edu/behind-the-cv/> (2020)  
Science Cafe talk, Philadelphia, PA (2019)  
Language and the brain blog, <http://languageandthebrain.org> (2018 - present)  
Science fair judge, Key elementary school, Washington, DC (2014 - 2016)  
Group guide, Brain awareness week, Hardy middle school, Washington, DC (2014)