

Kathryn Schuler  
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### Positions and Education

2017-present	Assistant Professor, Department of Linguistics, University of Pennsylvania
2017	Ph.D., Neuroscience, Georgetown University
2010	B.A., Brain and Cognitive Sciences, University of Rochester

### Grants

pending	<b>National Science Foundation</b> <i>Acquisition of variation in child language learners (#2043724)</i> Award: \$204,807 Role: Primary Investigator
2021-2022	<b>Penn Research Recovery Grant</b> <i>Online recruitment and running of child research participants</i> Award: \$12,190 Role: Primary Investigator

### Awards

2017	Paula Menyuk Travel Award, Boston University Conference on Language Development
2016	Robert J. Glushko & Pamela Samuelson Foundation Travel, Cognitive Science Society
2012	Cognitive Science Fellowship (declined), Northwestern University
2002	New York Leaders of Tomorrow Scholarship, New York State Lottery
2002-2004	Salutatorian Scholarship, Elmira College
2002	Frederick Douglass and Susan B. Anthony Award, University of Rochester

### Publications

Submitted	Schuler, K.D., Yang, C., & Newport, E.L. (in revision) Children form productive rules when it is more computationally efficient. <i>Journal of Memory and Language</i>
	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. <i>Language Cognition and Neuroscience</i>
	Schuler, K.D., Lukens, K., Reeder, P.A., Newport, E.L. & Aslin, R.N. (in revision) Children can use distributional cues to acquire grammatical categories. <i>Cognition</i>
In press	Li, D.** & Schuler, K. (in press) Distributional Learning of Recursive Structures <i>Proceedings of the Cognitive Science Society</i>

- Austin, A.\* , Schuler, K.D.\* , Furlong, S. & Newport, E.L. (in press) Learning a language from inconsistent input: Regularization in child and adult learners. *Language Learning and Development*
- Published Schuler, K.D. (2021) Exbuilder: a framework for doing reproducible research with docker containers. Available at: <https://github.com/exbuilder/exbuilder>
- Pophristic, S.\*\* & Schuler, K.D. (2021) The role of gender in the acquisition of the Serbian case system. *Proceedings of the Linguistic Society of America*, 6(1), 896–905.
- Chen, Y.\*\* & Schuler, K.D. (2020) Does Learner’s preference match the typological pattern of Animacy Hierarchy in morphological marking? *Proceedings of the 43rd Annual Penn Linguistics Conference*, Penn Working Papers in Linguistics.
- Schuler, K. D., Kodner, J., & Caplan, S. (2020). Abstractions are good for brains and machines: A commentary on Ambridge (2020). *First Language*
- Culbertson, J.C. & Schuler, K.D. (2019). Artificial language learning in children. *Annual Review of Linguistics*.
- 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*.
- 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*.
- 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.
- Booth, A.E., Schuler, K., & Zajicek, R. (2010). Specifying the role of function in infant categorization. *Infant Behavior and Development*, 33(4), 672-684.

\* co-first authors, \*\* trainee coauthor

## Conference Presentations

Presentations      Li, D.\*\* & Schuler, K. (to appear) Acquiring recursive structures through distributional learning. *LSA 2022*.

Chen, Y.\*\* & Schuler, K. (to appear) Adults regularize unpredictable variation when variants resemble possible speech errors. *LSA 2022*

Chen, Y.\*\* & Schuler, K. (to appear) The Acquisition of Variable Ne-omission in Parisian French. *Arizona Linguistics Circle 15*

Chen, Y.\*\* & Schuler, K. (to appear) The role of shared variation on the acquisition of variable rules. *Boston University Conference on Language Development*

Li, D.\*\* & Schuler, K. (2021) Acquiring recursive structures through distributional learning. *Recursion Across Languages. The intricacies of Babel*

Alberski, A.\*\* & Schuler, K. (2021) The role of language context in the acquisition of novel words. *CUNY 2021*

Li, D.\*\* & Schuler, K. (2021) Acquiring recursive structures through distributional learning. *CUNY 2021*

Alberski, A.\*\* & Schuler, K. (2021) Learning words in linguistic contexts: using language to fast-map and acquire partial knowledge. *SRCD 2021*

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.*

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*

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.*

Schuler, K. & Chen, Y.\*\* (2021) Morphosyntactic variation is preserved, not regularized, when an optional form is rare. *Talk presented at the 95th annual meeting of the Linguistic Society of America.*

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

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*. Cancelled due to COVID-19

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*. Cancelled due to COVID-19.

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*. Cancelled due to COVID-19

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

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

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*.

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*.

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*.

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

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

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

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

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.

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.

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 coauthor

### **Invited Talks**

2021	Penn Linguistic Conference panel moderator
2020	Cognitive Neuroscience Seminar, George Washington University
2020	Keynote at the Edinburgh Summer School in Artificial Language Learning (cancelled)
2019	Department of Linguistics Colloquium, NYU
2018	Integrated Language Science and Technology Seminar, Penn
2018	Center for Autism Research Science Meeting, CHOP
2016	Common Ground Seminar, Institute for Research on Cognitive Science

## Teaching

2021	LING 172 / PSYC 215: Data science for studying language & the mind
2020	LING 001: Introduction to Linguistics
2019-present	LING 304 / 504: Neurolinguistics (most falls)
2018-present	LING 104: Language and the brain (most falls)
2018-present	LING 607: Topics in Psycholinguistics (most springs)
2015-2016	ICOS 202: Research Modules in Cognitive Science, TA, Georgetown University
2015	ICOS 201: Introduction to Cognitive Science, TA, Georgetown University

## Mentoring

PhD Students	Daoxin Li, lab member, 2019-present Yiran Chen, primary mentor, 2018-present
PhD Committees	<i>Dissertation:</i> Hong Zhang, Nattanun Chanchaochai, and Ava Irani  <i>Proposal &amp; qualifying paper:</i> Ryan Budnick, Yosiane White, Spencer Caplan, Hong Zhang, Ava Creemers, Ava Irani, Nattanun Chanchaochai, Ollie Sayeed, Nikita Bezrukov and Andrea Ceolin.
Honors Thesis	Iris Zhong, external member, Smith College Sarah Nam, primary advisor, University of Pennsylvania Jessie Schwab, co-advisor, Georgetown University John Davis, co-advisor, Georgetown University
Undergraduates	Aja Altenhof, Anna Alberski, Iris Zhong, Annalise Kendrick, Stefan Pophristic, Madison Reasnor, Nathaniel Serio, Breasia Scott, Dorina Domi, Ayyah Alhuraibi, Jasmine Raj, Madison Connelly, and Jessica Burke

## Service

2021	SAS's New Faculty Orientation, panel discussion on teaching
2021	Organizing committee, CUNY sentence processing conference
2020-present	UScholars faculty council member and research advisor
2019-2020	Faculty facilitator, Owning your own educational story at Penn (first-gen initiative)
2019-present	mindCORE education committee
2019	Graduate admission committee, Linguistics Department
2018	Faculty fulbright committee
2018	Organizer and instructor, 4-day PsychoPy bootcamp
2015	Organizer and instructions, MATLAB tutorial, Georgetown

2012-2014	Organizer, Functional and Neuroanatomical Imaging Group journal club, Georgetown
Reviewing	<i>Journals:</i> Linguistics Vanguard, Language, Memory and Cognition, Language Learning and Development, Cognitive Science, Cognition, Journal of Memory and Language, and Language Learning  <i>Conferences:</i> NELS, 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
Memberships	International Congress of Infant Studies, Cognitive Development Society, Cognitive Science Society, Society for Research on Child Development, Linguistic Society of America

## Outreach

### *Related to first-generation and underrepresented scholars*

2021	mindCORE NSF Research Experience for Undergraduates, faculty mentor
2021	mindCORE NSF Research Experience for Undergraduates, workshop instructor
2021	Penn First Plus, Ambassador Training
2020	Penn First Plus, Work study and research information session panelist
2020	MindCORE Interdisciplinary faculty Q&A, panelist
2019	MindCORE Working in research and academia, faculty panel for undergrads
2019	Preparing for your first year as a faculty member or postdoc, faculty panelist
2019	Penn First Plus, working in research faculty panelist
2019	Penn's First Two Years Program, faculty panelist on women in science
2018-2019	Penn's Summer Workshop in Interdisciplinary Mind and Brain Studies
2018	Penn Undergraduate Research Mentoring Program (PURM), faculty mentor
2018	Career development workshop at Penn, faculty speaker
2018	Center for Teaching and Learning graduate student workshop, faculty speaker

### *Other public-facing materials and community events*

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