# June Choe

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## RESEARCH INTERESTS

Language Acquisition (esp. Word Learning and Pragmatics), Language and Cognition (esp. Linguistic and Cognitive Development), Sentence Processing, Human–Computer Interaction, Computational Modelling, Applied Statistics

## EDUCATION

**Ph.D. in Linguistics**, University of Pennsylvania**,** Philadelphia, PA                    2020 – *expected* Spring 2025
Dissertation: *Acquiring words beyond the basic level*
Committee: Anna Papafragou (chair), Kathryn Schuler, Florian Schwarz

**B.A. in Linguistics**, Northwestern University, Evanston, IL                    2016–2020
Magna cum laude
Honors thesis: *Prosodic focus strengthens semantic persistence in garden-path reanalysis*
Committee: Jennifer Cole, Masaya Yoshida

## AWARDS, HONORS, AND FELLOWSHIPS

2023 **American Statistical Association (ASA) student paper award**. Winner of a paper competition jointly held by the sections on Statistical Computing and Statistical Graphics.
2022 **Mellon Humanities Graduate Endowment**. Merit-based fellowship covering a portion of PhD stipend at Penn.
2020 **Benjamin Franklin Fellowship**. Five-year funding package covering the full cost of PhD studies at Penn.
2019 **Abraham Demoz Prize**. Department award for excellence in undergraduate linguistics research at Northwestern.

## JOURNAL PUBLICATIONS

**Choe, J.**, & Papafragou, A. (in prep.). Children's noun generalizations: Alternatives and speaker knowledge.

**Choe, J.**, & Papafragou, A. (in prep.). Children's sensitivity to informativeness in basic-level vs. superordinate nouns.

**Choe, J.**, & Papafragou, A. (accepted pending minor revisions). Distributional signatures of superordinate nouns. *Language Acquisition*.

**Choe, J.**, & Papafragou, A. (2023). The acquisition of subordinate nouns as pragmatic inference. *Journal of Memory and Language, 132*, 104432.

**Choe, J.**, Yoshida, M., & Cole, J. (2022). The role of prosodic focus in the reanalysis of garden path sentences: Depth of semantic processing impedes the revision of an erroneous local analysis. *Glossa Psycholinguistics, 1*(1).

McWeeny, S., Choi, J. S., **Choe, J.**, LaTourette, A., Roberts, M. Y., & Norton, E. S. (2022). Rapid automatized naming (RAN) as a kindergarten predictor of future reading in English: A systematic review and meta-analysis. *Reading Research Quarterly, 57*(4), 1187–1211.

## CONFERENCE PROCEEDINGS

**Choe, J.**, Chen, Y., Chan, M. P. Y., Li, A., Gao, X., & Holliday, N. (2022). Language-specific Effects on Automatic Speech Recognition Errors for World Englishes. In *Proceedings of the 29th International Conference on Computational Linguistics*, 7177–7186.

Chan, M. P. Y, **Choe, J**, Li, A., Chen, Y., Gao, X., & Holliday, N. (2022). Training and typological bias in ASR performance for world Englishes. In *Proceedings of Interspeech 2022*, 1273-1277.

**Choe, J.**, & Papafragou, A. (2022). The acquisition of subordinate nouns as pragmatic inference: Semantic alternatives modulate subordinate meanings. In *Proceedings of the Annual Meeting of the Cognitive Science Society*, 44, 2745-2752.

## CONFERENCE PRESENTATIONS

**Choe, J.**, & Papafragou, A. Children's sensitivity to informativeness in naming: basic-level vs. superordinate nouns. Talk at the 101st Annual Meeting of the Linguistics Society of America (LSA). 9-12 January 2025. Philadelphia, PA.

Davenport, C., **Choe, J.**, D'Onofrio, A., & Yoshida, M. Social Expectations via Personae in Syntactic Processing. Talk at the 52nd Annual Conference on New Ways of Analyzing Variation (NWAV). November 7-9. Miami, FL.

Davenport, C., **Choe, J.**, D'Onofrio, A., & Yoshida, M. Personae in Syntactic Processing. Poster presented at the 30th Architectures and Mechanisms for Language Processing (AMLaP). 5-7 September 2024. Edinburgh, Scotland.

**Choe, J.** Distributional signatures of superordinate nouns. Talk at the 10th Mid-Atlantic Colloquium of Studies in Meaning (MACSIM) conference. 6 April 2024. University of Maryland, College Park, MD.

**Choe, J.**, & Papafragou, A. Distributional signatures of superordinate nouns. Poster presented at the 48th Boston University Conference on Language Development (BUCLD). 2-5 November 2023. Boston University, MA.

**Choe, J.**, & Papafragou, A. Pragmatic underpinnings of the basic-level bias. Poster presented at the 48th Boston University Conference on Language Development (BUCLD). 2-5 November 2023. Boston University, MA.

**Choe, J**. Sub-layer modularity in the Grammar of Graphics. Talk at the 2023 Joint Statistical Meetings (JSM), 5-10 August 2023. Toronto, Canada. *American Statistical Association (ASA) best student paper award.*

**Choe, J**. Persona-based social expectations in sentence processing and comprehension. Talk at the Language, Stereotypes & Social Cognition workshop. 22-23 May 2023. University of Pennsylvania, PA.

**Choe, J**. Fast cluster-based permutation test using mixed-effects models. Talk at the Integrated Language Science and Technology (ILST) seminar. 21 April 2023. University of Pennsylvania, PA.

**Choe, J.**, & Papafragou, A. Discourse effects on the acquisition of subordinate nouns. Poster presented at the 9th Mid-Atlantic Colloquium of Studies in Meaning (MACSIM). 15 April 2023. University of Pennsylvania, PA.

**Choe, J.**, & Papafragou, A. Discourse effects on the acquisition of subordinate nouns. Poster presented at the 36th Annual Conference on Human Sentence Processing (HSP). 9-11 March 2023. University of Pittsburg, PA.

**Choe, J.**, & Papafragou, A. Lexical alternatives and the acquisition of subordinate nouns. Talk at the 47th Boston University Conference on Language Development (BUCLD). 3-6 November 2022. Boston University, MA.

**Choe, J.**, Chen, Y., Chan, M. P. Y., Li, A., Gao, X., & Holliday, N. Language-specific Effects on Automatic Speech Recognition Errors in American English. Talk at the 28th International Conference on Computational Linguistics (COLING). 12-17 October, 2022. Gyeongju, South Korea.

Chan, M. P. Y., **Choe, J**, Li, A., Chen, Y., Gao, X., & Holliday, N. Training and typological bias in ASR performance for world Englishes. Talk at the 23rd Conference of the International Speech Communication Association (INTERSPEECH). 18-22 September, 2022. Incheon, South Korea.

**Choe, J**. Cracking open ggplot internals with ggtrace. Talk at the RStudio Conference. 25-28 July 2022. Washington D.C.

**Choe, J**. Stepping into {ggplot2} internals with {ggtrace}. Talk at the useR! Conference. 20-23 June 2022. Vanderbilt University, TN. *Diversity scholarship award.*

**Choe, J.**, & Papafragou, A. Acquisition of subordinate nouns as pragmatic inference: Semantic alternatives modulate subordinate meanings. Poster presented at the 2nd Experiments in Linguistic Meaning (ELM) conference. 18-20 May 2022. University of Pennsylvania, PA.

**Choe, J.**, & Papafragou, A. Beyond the basic level: Levels of informativeness and the acquisition of subordinate nouns. Poster presented at the 35th Annual Conference on Human Sentence Processing (HSP). 24-26 March 2022. Santa Cruz, CA.

**Choe, J.**, Cole, J, & Yoshida, M. Prosodic focus strengthens semantic persistence. Poster presented at the 26th Architectures and Mechanisms for Language Processing (AMLaP). 3-5 September 2020. Potsdam, Germany.

**Choe, J**. Computer-assisted snowball search for meta-analysis research. Poster presented at the 2020 Undergraduate Research & Arts Exposition. 27-28 May 2020. Northwestern University, Evanston, IL.

D'Onofrio, A., **Choe, J.**, & Yoshida, M. Personae in syntactic processing: Socially-specific agents bias expectations of verb transitivity. Poster presented at the 93rd Annual Meeting of the Linguistics Society of America (LSA). 3-6 January 2019. New York City, NY.

**Choe, J.**, Sloggett, S., Yoshida, M., & D'Onofrio, A. Personae in syntactic processing: Socially-specific agents bias expectations of verb transitivity. Poster presented at the 32nd CUNY Conference on Human Sentence Processing. 29-31 March 2019. University of Colorado, Boulder, CO.

**Choe, J**. Social Information in Sentence Processing. Oral presentation at the 2019 Undergraduate Research & Arts Exposition. 29 May 2019. Northwestern University, Evanston, IL.

## RESEARCH SOFTWARE

Aria, M., Le, T., Cuccurullo, C., Belfiore, A., & **Choe, J**. (2024). openalexR: An R-tool for collecting bibliometric data from OpenAlex. *The R Journal*, *15*(4), 166–179. DOI: 10.32614/RJ-2023-089

**Choe, J**. (2024). jlmerclusterperm: Cluster-Based Permutation Analysis for Densely Sampled Time Data. [R package version 1.1.4]. DOI: 10.32614/CRAN.package.jlmerclusterperm

**Choe, J**. (2024). jlme: Regression Modelling with 'GLM.jl' and 'MixedModels.jl' in 'Julia'. [R package version 0.4.0]. DOI: 10.32614/CRAN.package.jlme

Iannone, R., Vargas, M., & **Choe, J**. (2024). Data Validation and Organization of Metadata for Local and Remote Tables. [R package version 0.12.2]. DOI: 10.32614/CRAN.package.pointblank

McWeeny, S., **Choe, J.**, & Norton, E. S. (2021). SnowGlobe: An iterative search tool for systemic reviews and meta-analyses. [Computer Software]. DOI: 10.17605/OSF. IO/U25RN

## WORKSHOPS LED

"Introduction to mixed-effects models in Julia". Workshop at Penn MindCORE. 1 December 2023. Philadelphia, PA.

"Experimental syntax using IBEX/PCIBEX" with Nayoun Kim. Workshop at the Seoul International Conference on Linguistics (SICoL). 11-12 August 2022. Seoul, South Korea.

"Experimental syntax using IBEX: a walkthrough" with Nayoun Kim. BK Winter School Workshop on Experimental Linguistics/Syntax at Sungkyunkwan University, 19-22 January 2021. Seoul, South Korea.

"An introduction to SnowGlobe: a tool for systematic reviews" with Sean McWeeny. Workshop at the Northwestern University Libraries. 18 May 2021. Evanston, IL.

## TEACHING EXPERIENCE

Teaching assistant for "Introduction to Linguistics". Instructor: Dr. Aletheia Cui. Spring 2024. University of Pennsylvania.

Teaching assistant for "Data science for language and the mind". Instructor: Dr. Katie Schuler. Fall 2021, Spring, 2023, Fall 2023. University of Pennsylvania.

## MENTORING

Olivia Maltz, undergraduate honors thesis (cognitive science), University of Pennsylvania.                    *Ongoing*

## GUEST LECTURES

*Model extrapolation*. LING 0700 / PSYC 2314. "Data Science for studying language and the mind". Instructor: Dr. Kathryn Schuler. Fall 2024. University of Pennsylvania.

*Overcoming convergence errors in mixed-effects models*. LING 5670 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Fall 2024. University of Pennsylvania.

*Hard words and (syntactic) bootstrapping*. LING 5750 "The Acquisition of Meaning". Instructor: Dr. Anna Papafragou. Spring 2024. University of Pennsylvania.

*Introduction to R for psychology research*. PSYC 4997 "Senior Honors Seminar in Psychology". Instructor: Dr. Coren Apicella. Spring 2024. University of Pennsylvania.

*Model fitting and diagnosis with MixedModels.jl in Julia*. LING 5670 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Fall 2023. University of Pennsylvania.

*Simulation-based power analysis for mixed-effects models*. LING 5670 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Spring 2023. University of Pennsylvania.

## PROFESSIONAL ACTIVITIES

**Workshops attended:**
- Statistical Methods for Linguistics and Psychology (SMLP) summer school, 11–15 September 2023, University of Potsdam, Germany. Advanced methods in frequentist statistics with Julia. Instructors: Philip Alday, Doublas Bates, Reinhold Kliegl.

**Certificates:**
- Language and Communication Sciences (LCS) graduate certificate, University of Pennsylvania.

**Conference organization:**
- 9th Mid-Atlantic Colloquium of Studies in Meaning (MACSIM) conference, 2023, University of Pennsylvania.
- 2nd Experiments in Linguistic Meaning (ELM) conference, 2022, University of Pennsylvania.
- 46th Penn Linguistics Conference (PLC), 2022, University of Pennsylvania. Co-chair.
- 45th Penn Linguistics Conference (PLC), 2021, University of Pennsylvania.

**Editor**:
- Penn Working Papers in Linguistics (PWPL), Volume 30, Issue 1

**Reviewer**:
- *Penn Working Papers in Linguistics*
- *Language Learning and Development*
- *Cognitive Science Proceedings*
- *Journal of Open Source Software*

**Member**:
- Cognitive Science
- Linguistic Society of America
- American Statistical Association (sections: Statistical Computing, Statistical Graphics)