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 Models of Language, Applied Statistics

EDUCATION

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

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

AWARDS, HONORS, AND FELLOWSHIPS

2024-2025 **Geo L. Harrison Graduate Fellowship**. Merit-based endowment at Penn covering a portion of PhD costs.
2023 **American Statistical Association (ASA) student paper award**. Winner of a paper competition jointly held by the sections on Statistical Computing and Statistical Graphics.
2022-2023 **Andrew W. Mellon Humanities Fellowship**. Merit-based endowment at Penn covering a portion of PhD costs.
2020-2025 **Benjamin Franklin Fellowship**. Funding package covering the full cost of PhD studies and stipend 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. (2025). Distributional signatures of superordinate nouns. *Language Acquisition*. DOI: 10.1080/10489223.2024.2440348

Choe, J., & Papafragou, A. (2023). The acquisition of subordinate nouns as pragmatic inference. *Journal of Memory and Language, 132*, 104432. DOI: 10.1016/j.jml.2023.104432

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). DOI: 10.5070/G601136

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. DOI: 10.1002/rrq.467

PEER-REVIEWED 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.

INVITED TALKS

Choe, J. New frontiers in delayed aesthetic evaluation: Where ggplot2 users and developers meet. Panel talk at the 2025 Joint Statistical Meetings (JSM), 2-7 August 2025. Nashville, Tennessee.

Choe, J. Hierarchical noun meanings in language and the mind. Talk at the Yale University Infant Mind & Cognition Lab, 7 March 2025. New Haven, CT.

Chan, M. P. Y., & **Choe, J**. Training and typological bias in ASR performance and the phonetics of world Englishes. Talk at the Responsible AI group at Amazon AWS, 6 May 2024, virtual.

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. 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.

CONFERENCE TALKS

Choe, J., & Papafragou, A. Children's sensitivity to informativeness in naming: basic-level vs. superordinate nouns. Plenary Talk at the 38th Annual Conference on Human Sentence Processing (HSP). 27-29 March 2023. Maryland, MD.

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.

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. 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., & 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. Social Information in Sentence Processing. Talk the 2019 Undergraduate Research & Arts Exposition. 29 May 2019. Northwestern University, Evanston, IL.

CONFERENCE POSTERS

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., & 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. ***Paula Menyuk travel award***.

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., & 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. (2022). The acquisition of subordinate nouns as pragmatic inference: Semantic alternatives modulate subordinate meanings. Poster presented at the 44th Annual Meeting of the Cognitive Science Society (CogSci). 27-30 July 2022. Toronto, Canada.

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. ***2nd place poster award***.

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.

RESEARCH AND TRAVEL GRANTS

2024 **MindCORE research activity grant** ($1000)
2023 **Paula Menyuk conference travel grant** ($350)
2022 **UseR! conference diversity scholarship** ($115)
2019 **Northwestern academic year undergraduate research grant** ($800)
2019 **Weinberg summer research grant** ($3500)
2018 **Undergraduate learning abroad fellowship** ($2500)
2018 **Radoluvaki scholarship for Asian studies** ($334)

TECHNICAL DOCUMENTS

June Choe. (2024). jlmerclusterperm: R (and Julia) package for cluster-based permutation tests on densely-sampled time series data. https://yjunechoe.github.io/static/papers/Choe_2024_jlmerclusterperm.pdf

June Choe. (2022). Sub-layer modularity in the Grammar of Graphics. *American Statistical Association Student Paper Award in Statistical Computing and Graphics*. https://yjunechoe.github.io/static/papers/Choe_2022_SublayerGG.pdf

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). Pointblank: 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.

INSTRUCTIONAL TEACHING

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.   2023–2025

GUEST LECTURES

Non-convergence and overparameterization in mixed-effects models: strategies in R and Julia. LING 5620 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Fall 2024. University of Pennsylvania.

Model extrapolation. LING 0700 / PSYC 2314. "Data Science for studying language and the mind". Instructor: Dr. Kathryn Schuler. 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 diagnostics with MixedModels.jl in Julia. LING 5620 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Fall 2023. University of Pennsylvania.

Simulation-based power analysis for mixed-effects models. LING 5620 "Quantitative Study of Linguistic Variation". Instructor: Dr. Meredith Tamminga. Spring 2023. University of Pennsylvania.

ADDITIONAL TRAINING

Participant (by selection). Statistical Methods for Linguistics and Psychology (SMLP). 2023. University of Potsdam, Germany. *Advanced methods in frequentist statistics with Julia*. Instructors: Philip Alday, Douglas Bates, Reinhold Kliegl.

Participant (by selection). MindCORE Summer Fellowship Program. University of Pennsylvania. 2019.

PROFESSIONAL ACTIVITIES

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 Society
- Linguistic Society of America
- American Statistical Association (sections: Statistical Computing, Statistical Graphics)