Sarah Brogden Payne

Department of Linguistics and Institute for Advanced Computational Science

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Education

Degree-seeking programs

Stony Brook University   *Stony Brook, NY*
Ph.D., Linguistics   *Entered Fall 2022*
- Institute for Advanced Computational Science Graduate Research Fellow

University of Pennsylvania   *Philadelphia, PA*
B.A., Linguistics & Computer and Information Science, *Summa Cum Laude*   *May 2022*
- Minor: Cognitive Science
- Honors thesis: "When Collisions are a Good Thing: the Acquisition of Morphological Marking" advised by Dr. Charles Yang

Non-degree-seeking programs

Indiana University   *Bloomington, IN*
Dual Enrollment, Math & Computational Linguistics   *2017-18*

Awards & Fellowships

2023	**Graduate Research Empowering and Accelerating Talent (GREAT) Award,** State University of New York
2022	**Paula Menyuk Travel Award,** Boston University Conference on Language Development
2022	**Graduate Fellow,** NSF Graduate Research Fellowships Program
2022	**Graduate Fellow,** Institute for Advanced Computational Science Graduate Research Fellowship
2022	**Dean's Scholar,** University of Pennsylvania
2022	**Henry Hoenigswald Thesis Prize in Linguistics,** University of Pennsylvania
2022	**Honorable Mention,** NDSEG Graduate Fellowship
2021	**Elected to Phi Beta Kappa,** University of Pennsylvania
2018-19, 2021-22	**Dean's List,** University of Pennsylvania (*Temporarily discontinued due to COVID-19*)

Publications

Articles and Book Chapters

Wolfgang U. Dressler and **Sarah Payne** (to appear). *Self-Organization in Acquisition*. Cambridge Handbook of Natural Linguistics.

Sarah Payne and Charles Yang (to appear). *Making Good on BADS*. Italian Journal of Linguistics.

Conference Proceedings[1]

Sarah Payne (to appear). *Root Infinitives and the Acquisition of Morphological Marking*. Penn Working Papers in Linguistics, Volume 30.1.

Jordan Kodner, {**Sarah Payne**, Salam Khalifa}, and Zoey Liu (2023). *Morphological Inflection: A Reality Check*. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL). 61(1):6082-6101.

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[1]Proceedings published in the ACL conference and workshop anthologies are refereed and archival. Proceedings of the Cognitive Science Conference are refereed but non-archival.

Salam Khalifa, **Sarah Payne**, Ellen Broselow, Jordan Kodner, and Owen Rambow (2023). *A Cautious Generalization Goes a Long Way*. Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL). 61(1):1793-1805.

Jordan Kodner, {Salam Khalifa, **Sarah Payne**}, and Zoey Liu (2023). *Re-Evaluating Neural Models of Morphological Inflection*. Proceedings of the 45th Annual Meeting of the Cognitive Science Society. 45(1):3259-3267.

Sarah Payne (2023). *Contrast, Sufficiency, and the Acquisition of Morphological Marking*. Proceedings of the 47th annual Boston University Conference on Language Development. 47(1):604-617.

Caleb Belth, **Sarah Payne**, Deniz Beser, Jordan Kodner, & Charles Yang (2021). *The Greedy and Recursive Search for Morphological Productivity.* Proceedings of the 43rd Annual Meeting of the Cognitive Science Society. 42(1):2869-2875.

Deniz Beser, Joe Cecil, Marjorie Freedman, Jacob Lichtefeld, Mitch Marcus, **Sarah Payne**, & Charles Yang (2021). *A Grounded Approach to Modeling Generic Knowledge Acquisition.* Proceedings of the 43rd Annual Meeting of the Cognitive Science Society. 42(1):2450-2456.

Sarah Payne, Jordan Kodner, & Charles Yang (2021). *Learning Morphological Productivity as Meaning-Form Mappings.* Proceedings of the Annual Meeting of the Society for Computation in Linguistics. 4(1):177-187.

Manuscripts

Jordan Kodner, **Sarah Payne**, and Jeff Heinz (2023). *Why Linguistics Will Thrive in the 21st Century: A Reply to Piantadosi (2023)*. LingBuzz.

Sarah Payne (2022). *When Collisions are a Good Thing: the Acquisition of Morphological Marking.* Senior Thesis in Linguistics, University of Pennsylvania.

Ryan Gabbard, Deniz Beser, Jacob Lichtefeld, Joe Cecil, Mitch Marcus, **Sarah Payne**, Charles Yang, & Marjorie Freedman (2021). *ADAM: A Sandbox for Implementing Language Learning.* ArXiv, abs/2105.02263.

Presentations

Invited Talks

Sarah Payne (2023) *Possible and Probable Errors in Child Language.* 52nd Annual Poznań Linguistics Meeting.

{**Sarah Payne**, Salam Khalifa}, Jordan Kodner, and Zoey Liu (2023). *Re-Evaluating the Evaluation of Neural Morphological Inflection Models.* Institute for Advanced Computational Science Research Day, Stony Brook University.

Jordan Kodner, Salam Khalifa, **Sarah Payne**, and Zoey Liu (2023). *The Language or the Task Design? Re-Evaluating Morphological Inflection Tasks*. All Things Language and Computation Seminar, Stony Brook University.

Sarah Payne (2023). *Getting the Right Stuff Wrong: Modeling the Acquisition of Inflectional Morphology*. Computational Linguistics Speaker Series, City University of New York.

Sarah Payne (2022). *Contrast, Sufficiency, and the Acquisition of Morphological Marking*. Berwick Lab, MIT.

Other Presentations

Sarah Payne (2024). *Marginal Sequences are Licit but Unproductive.* Poster presented at the 2024 meeting of the Linguistic Society of America.

Sarah Payne (2023). *Marginal Sequences are Licit but Unproductive.* Poster presented at the 2023 Annual Meeting of Phonology.

Sarah Payne (2023). *Licit and Marginal Phonotactics: A Difference in Productivity.* Poster presented at Morris Halle Centenary Conference, MIT.

Jordan Kodner, {**Sarah Payne**, Salam Khalifa}, and Zoey Liu (2023). *Morphological Inflection: A Reality Check*. 61st Annual Meeting of the Association for Computational Linguistics (ACL).

Salam Khalifa, **Sarah Payne**, Ellen Broselow, Jordan Kodner, and Owen Rambow (2023). *A Cautious Generalization Goes a Long Way*. 61st Annual Meeting of the Association for Computational Linguistics (ACL).

Jordan Kodner, {Salam Khalifa, **Sarah Payne**}, and Zoey Liu (2023). *Re-Evaluating Neural Models of Morphological Inflection*. Poster presented at the 45th Annual Meeting of the Cognitive Science Society.

Sarah Payne (2023). *Root Infinitives and the Acquisition of Morphological Marking*. Talk given at the 47th annual Penn Linguistics Conference.

Sarah Payne (2023). *Spheres and Spaghetti: Generalization and Exceptionality in Phonotactic Acquisition*. Talk given at the 23rd Stony Brook, Yale, NYU, and CUNY (SYNC) conference.

Sarah Payne (2022). *Contrast, Sufficiency, and the Acquisition of Morphological Marking*. Talk given at the 47th annual Boston University Conference on Language Development.

Sarah Payne, Caleb Belth, Jordan Kodner, & Charles Yang (2022). *Searching for Morphological Productivity*. Talk given at the 96th Meeting of the Linguistics Society of America.

{Caleb Belth, **Sarah Payne**}, Jordan Kodner, & Charles Yang (2021). *Searching for Morphological Productivity*. Talk given at the 46th annual Boston University Conference on Language Development.

Sarah Payne, Caleb Belth, Jordan Kodner, & Charles Yang (2021). *The Recursive Search for Morphological Productivity*. Poster presented at the 5th Annual American International Morphological Meeting.

Caleb Belth, **Sarah Payne**, Deniz Beser, Jordan Kodner, and Charles Yang (2021). *The Greedy and Recursive Search for Morphological Productivity.* Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.

Deniz Beser, Joe Cecil, Marjorie Freedman, Jacob Lichtefeld, Mitch Marcus, **Sarah Payne**, and Charles Yang (2021). *A Grounded Approach to Modeling Generic Knowledge Acquisition.* Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.

Ryan Gabbard, Jacob Lichtefeld, Deniz Beser, Joe Cecil, Mitch Marcus, **Sarah Payne,** Charles Yang, & Marjorie Freedman (2021). *Grounding Word Learning Across Situations*. Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.

Sarah Payne, Peng Qian, Ethan Wilcox, & Roger Levy (2021). *Particle Filtering with Neural Language Models: Modelling the Effects of Memory on Incremental Sentence Processing* . Poster presented at the MIT Center for Brains, Minds and Machines Summer Research Poster Session.

Sarah Payne, Jordan Kodner, and Charles Yang (2021). *Learning Morphological Productivity as Meaning-Form Mappings.* Talk given at the Annual Meeting of the Society for Computation in Linguistics.

Sarah Payne (2019). *Categorization of Novel Referents by a Seeing Eye Dog*. Talk given at the University of California Berkeley Undergraduate Linguistics Symposium.

Sarah Payne & Chris Callison-Burch (2019). *From Word Meaning to Phrase Meaning: Compositionality*. Poster presented at the University of Pennsylvania Center for Undergraduate Research Poster Session.

Teaching Experience

2023	**Summer Youth Camp in Computational Linguistics,** Student Instructor	*Stony Brook*
Winter 2022	**North American Computational Linguistics Open Practice Session,** Student Instructor	*Stony Brook*
Fall 2021	**CIS 380: Operating Systems,** Teaching Assistant	*Penn*
Spring 2021	**CIS 240: Intro to Computer Architecture,** Teaching Assistant	*Penn*
Fall 2020	**NETS 212: Scalable and Cloud Computing,** Teaching Assistant	*Penn*
Spring 2019	**CIS 192: Intro to Python,** Teaching Assistant	*Penn*

Service and Outreach

Academic Service

Reviewing

Conferences: *2021-present*
- Cognitive Science Conference
- Conference on Empirical Methods in Natural Language Processing (EMNLP)
- Asia-Pacific Association of Computational Linguistics Conference (AACL)
- European Chapter of the Association of Computational Linguistics (EACL)
- Association of Computational Linguistics (ACL)

Student Organizer *Stony Brook University*
Department of Linguistics Colloquium Series *2022-present*

Student member	*Stony Brook University*
Justice, Equity, Diversity and Inclusion Committee in Linguistics	*2022-present*
Social Media Manager	*Stony Brook University*
Institute for Advanced Computational Science Student Association	*2022-present*
Session Chair	*Stony Brook, NY*
Workshop on Model Theoretic Representations in Phonology	*September 2022*
Invited Panelist: Journey Through Graduate Admissions	*University of Pennsylvania*
University of Pennsylvania Graduate and Professional Advising	*October 2023*
Invited Panelist: Navigating the Grad School Application Process	*Arizona State University*
ASU Student Organization for Inclusion, Diversity, Education, and Advocacy	*November 2022*
Invited Panelist: Undergraduate Research Panel	*San Diego State University*
SDSU Undergraduate Research Committee	*October 2021*

Other Service

Alumna Interviewer — *Suffolk County, NY*
University of Pennsylvania — *2022-present*
- Interview prospective undergraduates for admission to the University of Pennsylvania

Elected Member, University Council — *Philadelphia, PA*
University of Pennsylvania — *2021-22*
- Elected to represent the concerns and voices of the anti-violence community and survivors to university administrators

Chair, Abuse and Sexual Assault Prevention (ASAP) — *Philadelphia, PA*
University of Pennsylvania — *2021-2022*
- Lead board and general meetings and collaborations; co-host Take Back the Night with other universities in Philadelphia

Other

Memberships

Linguistic Society of America, Student Member

Languages

Native: British and American English
Intermediate: Spanish, Latin

Technical Skills

Proficient: Python, C, C++, Git, Bash, Linux/Unix
Intermediate: Java, R, LaTex, HTML/CSS
Beginner: JavaScript, Haskell, OCaml