

Sarah Brogden Payne

Department of Linguistics and Institute for Advanced Computational Science

Office SBS-N230, Stony Brook University, Stony Brook NY, 11790

sarah.payne@stonybrook.edu | paynesa.github.io

Education

Degree-seeking programs

Stony Brook University

Ph.D., Linguistics

- Institute for Advanced Computational Science Graduate Research Fellow

Stony Brook, NY

Entered Fall 2022

University of Pennsylvania

B.A., Linguistics & Computer and Information Science, *Summa Cum Laude*

- Minor: Cognitive Science
- Honors thesis: “When Collisions are a Good Thing: the Acquisition of Morphological Marking” advised by Dr. Charles Yang

Philadelphia, PA

May 2022

Non-degree-seeking programs

Indiana University

Dual Enrollment, Math & Computational Linguistics

Bloomington, IN

2017-18

Awards & Fellowships

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|---------------------|----------------------------------------------------------------------------------------------------------|
| 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 (<i>Temporarily discontinued due to COVID-19</i>) |

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 Proceedings¹

Jordan Kodner, {Salam Khalifa, **Sarah Payne**} (2023). *Exploring Linguistic Probes for Morphological Inflection*. Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing. 8933–8941.

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

¹Proceedings published in the ACL conference and workshop anthologies (ACL, NAACL, EMNLP, SCiL) are refereed and archival. Proceedings of the Cognitive Science Conference are refereed but non-archival.

- 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.
- 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** (2024). *Title TBD*. MIT LingLunch.
- Sarah Payne** (2024). *Title TBD*. MIT Department of Brain and Cognitive Sciences.
- Sarah Payne** (2023). *Possible and Probable Errors in Child Language*. 52nd Annual Poznań Linguistics Meeting.
- 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.

Conference and Workshop Presentations

- Sarah Payne** (2024). *Marginal Sequences are Licit but Unproductive*. Poster presented at the 2024 meeting of the Linguistic Society of America.
- Jordan Kodner, {Salam Khalifa, **Sarah Payne**} (2023). *Exploring Linguistic Probes for Morphological Inflection*. Talk given at the 2023 Conference on Empirical Methods in Natural Language Processing.
- 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 the Morris Halle Centenary Conference, MIT.
- Jordan Kodner, {**Sarah Payne**, Salam Khalifa}, and Zoey Liu (2023). *Morphological Inflection: A Reality Check*. Poster presented at the 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*. Poster presented at the 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.

Internal Presentations

- Sarah Payne** (2024). *A Learning-Theoretic Account of Blind Alley Developments*. Lightning talk at the Institute for Advanced Computational Science Research Day, Stony Brook University.
- Sarah Payne** (2024). *Licit and Marginal Phonotactics: A Difference in Productivity*. Poster presented at the Institute for Advanced Computational Science Advisory Board Meeting.
- {**Sarah Payne**, Salam Khalifa}, Jordan Kodner, and Zoey Liu (2023). *Re-Evaluating the Evaluation of Neural Morphological Inflection Models*. Poster presented at the 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** (2022). *Contrast, Sufficiency, and the Acquisition of Morphological Marking*. Brown Bag Presentation, Stony Brook Department of Linguistics.

Teaching Experience

2024	Summer Youth Camp in Computational Linguistics , Lead Instructor	<i>Stony Brook</i>
2023	Summer Youth Camp in Computational Linguistics , Student Instructor	<i>Stony Brook</i>
Winter 2022	North American Computational Linguistics Open Practice Session , Student Instructor	<i>Stony Brook</i>
Fall 2021	CIS 380: Operating Systems , Teaching Assistant	<i>Penn</i>
Spring 2021	CIS 240: Intro to Computer Architecture , Teaching Assistant	<i>Penn</i>
Fall 2020	NETS 212: Scalable and Cloud Computing , Teaching Assistant	<i>Penn</i>
Spring 2019	CIS 192: Intro to Python , Teaching Assistant	<i>Penn</i>

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 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

Student Organizer

Stony Brook University

Department of Linguistics Colloquium Series

2022-2023

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