
Employment & Affiliations

- 2021-present **San Jose State University**
Assistant Professor, Department of Linguistics & Language Development
- 2023-2024 **Massachusetts Institute of Technology**
Visiting Faculty, Department of Linguistics & Philosophy (invited position)
- 2016-2021 **Stony Brook University**
Graduate Assistant, Computational Linguistics Lab
Graduate Assistant, Department of Neurobiology and Behavior
Research Fellow, Institute for Advanced Computational Science
- 2015-2016 **Higher School of Economics**
Graduate Assistant, Theoretical Neuroscience Group & Neurolinguistics Laboratory
- 2012-2013 **University of Minnesota**
Undergraduate Researcher, Department of Speech-Language-Hearing Sciences
Student Manager & Research Assistant, NuMI Off-Axis Electron Neutrino Appearance (NOvA) Laboratory, Department of Physics

Research Areas

- Linguistics Phonology, Morphology, Learnability, Computational/Mathematical Linguistics
- Computer Algorithmic Learning Theory, Automata Theory, Formal Languages, Finite Model
Science Theory, Machine learning

Education

- 2016–2021 **PhD, Linguistics.**
Stony Brook University
Dissertation: Structure and Learning in Natural Language
Advisor: Jeffrey Heinz
- 2014– 2016 **MSc, Cognitive Science.**
Higher School of Economics
Thesis: Homeostasis in Harmonic Grammar
Advisors: Boris Gutkin (HSE/Ecole Normale) and Paul Smolensky (Johns Hopkins)
- 2010– 2013 **BA, Linguistics.**
University of Minnesota - Twin Cities
- Non Degree-Conferring
- 2019 LSA Linguistic Institute
- 2017 Crete Summer School of Linguistics
- 2016 Visiting Graduate Student, Neural Theory Group, École Normale Supérieure, Paris

- 2015, 2016 New York-St. Petersburg Institute for Linguistics, Cognition, and Culture (NYI)
 2016 Winter Mathematics School, Higher School of Economics, Moscow

Courses Taught

Primary Instructor

- ESSLLI Expressivity of Transformers: Logic, Circuits, and Formal Languages - Sum24
 (with David Chiang, Lena Strobl, Andy Yang)
- MIT Special Topics in Linguistics: Learnability and Linguistic Theory - S24
 Topics in Computational Linguistics: Grammars & Representations - F23
- San Jose Introduction to Linguistics - F21, S22, F22
 State Speech Technology - F21, F22
 Sound & Communication - S23, F24
 Corpus Linguistics - S22
 Natural Language Processing - S22, S23, F24
- Stony Brook IACS Summer Youth Camp for Computational Linguistics - Sum20
 Human Language - Sum17
 Writing in Linguistics - W17, W18
 Advanced English Academic Writing - S17

Teaching Assistant

- Stony Brook Computational Linguistics - S21
 Language and Technology - F18, F20
 Language Acquisition - S18
 Human Language - F16
- LSA Computational Phonology - Sum19
 Institute
- CreteLing Introduction to Phonology - Sum17
 Summer
 School
- HSE Intro to Cognitive Science - F15, S16

Grants and Awards

- 2021 President's Award to Distinguished Doctoral Students, Stony Brook University
- 2018 – 2020 IACS Junior Researcher Fellowship
- 2017 Crete Summer School of Linguistics Fellowship (tuition, lodging)
- 2014 - 2016 Higher School of Economics Graduate Fellowship (tuition, lodging, stipend)
- 2014 - 2016 Russian Federation Graduate Scholarship
- 2012 - 2013 University of Minnesota UROP Grant (Co-PI with Peter Watson). "The Influence of Positive Correction on Phonological Learning"
- 2011 - 2013 North Central Electric League Scholarship
- 2010 - 2013 Tyler Hill Memorial Scholarship

Publications and Manuscripts

Note: author ordering is often alphabetical and/or prioritizes student authors

Journal Articles

- in prep* **Rawski, Jonathan**, Jeffrey Heinz, Logan Swanson. *Abductive Inference of Phonotactic Constraints*
- in prep* **Rawski, Jonathan**. *Computational Locality in Signed Phonology*
- in revision* Strobl, Lena, Dana Angluin, David Chiang, **Jonathan Rawski**, Ashish Sabharwal. *Transformers as Transducers*. Transactions of the Association for Computational Linguistics (TACL)
- in revision* Dolatian, Hossep and **Jonathan Rawski**. *Computational Locality in Nonlinear Morpho-phonology*
- in press* Levenstein, Daniel, Aniello De Santo, Saskia Heijnen, Manjari Narayan, Freek J.W. Oude Maatman, **Jonathan Rawski**, Cory Wright. *The problem-ladenness of theory*. Computational Brain and Behavior
- 2023 **Rawski, Jonathan** and Lucie Baumont. *Modern Language Models Refute Nothing*. Lingbuzz preprint
- 2023 **Rawski, Jonathan**, Hossep Dolatian, Jeffrey Heinz and Eric Raimy. *Regular and Polyregular Theories of Reduplication*. Glossa
- 2021 Lambert, Dakotah, **Jonathan Rawski**, and Jeffrey Heinz. *Typology Emerges from Simplicity in Representations and Learning*. Journal of Language Modeling.
- 2021 **Rawski, Jonathan**, William Idsardi, and Jeffrey Heinz. *Comment on “Nonadjacent Dependency Processing in Monkeys, Apes, and Humans”*. Science Advances
- 2021 Aronoff, Mark, **Jonathan Rawski**, and Wendy Sandler. *Talk Isn’t So Cheap*. Inference.
- 2020 De Santo, Aniello and **Jonathan Rawski**. *What Can Formal Language Theory Do for Animal Cognition Studies?* Royal Society Open Science
- 2019 **Rawski, Jonathan** and Jeffrey Heinz. *No Free Lunch in Linguistics or Machine Learning: Reply to Pater*. Language, 95(1)

Paper-reviewed Conference Proceedings

- 2024 Sun, Zhouyi and **Jonathan Rawski**. *Tensor Product Representations of Regular Transductions*. Proceedings of the Society for Computation in Linguistics, vol. 7
- 2022 Valvoda, Josef, **Jonathan Rawski**, Naomi Saphra, Ryan Cotterell, Adina Williams. *Benchmarking Compositionality with Formal Languages*. Proceedings of COLING 2022
- 2021 Dolatian, Hossep, Jeffrey Heinz, and **Jonathan Rawski**. *Strong Generative Capacity of Morphological Processes*. Proceedings of the Society for Computation in Linguistics, volume 4. Association for Computational Linguistics.
- 2020 Nelson, Max, H. Dolatian, **J. Rawski**, B. Prickett. *Probing RNN Encoder-Decoder Generalization of Subregular Functions using Reduplication*. Proceedings of the Society for Computation in Linguistics, volume 3. Association for Computational Linguistics

- 2020 Dolatian, Hossep and **Jonathan Rawski**. *Multi-Input Strictly Local Functions for Templatic Morphology*. Proceedings of the Society for Computation in Linguistics, volume 3. Association for Computational Linguistics
- 2020 **Rawski, Jonathan** and Hossep Dolatian. *Multi-Input Strictly Local Functions for Tonal Phonology*. Proceedings of the Society for Computation in Linguistics, volume 3. Association for Computational Linguistics
- 2019 **Rawski, Jonathan**. *Tensor Product Representations of Subregular Formal Languages*. Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI) workshop on Neural-Symbolic Learning and Reasoning
- 2019 Chandlee, Jane, R. Eyraud, J. Heinz, A. Jardine, **J. Rawski**. *Learning with Partially Ordered Representations*. In Proceedings of the 16th Meeting of on the Mathematics of Language (SIGMOL 2019), Association for Computational Linguistics (ACL).

Abstract-reviewed Conference Proceedings

- 2024 Li, Amy and **Jonathan Rawski**. *Regular Reduplication Across Modalities*. Proceedings of the Society for Computation in Linguistics.
- 2021 Koser, Nate, Hossep Dolatian, **Jonathan Rawski**, and Kristina Strother-Garcia. *Computational Restrictions on Iterative Prosodic Processes*. Proceedings of the Annual Meeting on Phonology.
- 2019 Dolatian, Hossep, **Jonathan Rawski**. *Finite-State Locality in Semitic Root-and-Pattern Morphology*. Proceedings of the 43rd Penn Linguistics Conference
- 2019 Chandlee, Jane, R. Eyraud, J. Heinz, A. Jardine, **J. Rawski**. *How the Structure of the Constraint Space Enables Learning*. Proceedings of the Society for Computation in Linguistics. Association for Computational Linguistics
- 2018 De Santo, A., **J. Rawski**, and J.E. Drury. *Quantified Sentences as a Window Into Prediction and Priming: An ERP Study*. Proceedings of the 54th Meeting of the Chicago Linguistics Society
- 2018 **Rawski, Jonathan**. *Subregular Complexity Across Speech and Sign*. Proceedings of the Society for Computation in Linguistics
- 2017 **Rawski, Jonathan**. *Phonological Complexity Across Speech and Sign*. Proceedings of the 53rd Meeting of the Chicago Linguistics Society

Peer-Reviewed Book Chapters

- in prep* Heinz, Jeffrey, Jason Riggle, and **Jonathan Rawski**. *Learnability*. in Nasukawa, Samuels, Schwartz, Torkenczy (ed.), Wiley-Blackwell Companion to Phonology.
- to appear* **Rawski, Jonathan**. *Compound Reduction in Signed Phonology*. in J. Heinz (ed.), Doing Computational Phonology.
- to appear* Alena Aksenova, **Jonathan Rawski** Jeffrey Heinz, Thomas Graf. *The Computational Power of Harmony*. in Harry van der Hulst (ed.), The Oxford Handbook of Vowel Harmony.
- 2022 Heinz, Jeffrey and **Jonathan Rawski**. *Learnability*. in B. Elan Dresher and Harry van der Hulst (eds.), The Oxford Handbook of the History of Phonology.

- 2022 De Santo, Aniello and **Jonathan Rawski**. *Mathematical Linguistics and Cognitive Complexity*. in Danesi, Marco (ed.), The Springer Handbook of Cognitive Mathematics.
- 2022 Bakovic, Eric, Jeffrey Heinz, and **Jonathan Rawski**. *Phonological abstraction in the mental lexicon*. in Lila R. Gleitman, Anna Papafragou (ed.), The Oxford Handbook of the Mental Lexicon.

Presentations

Invited Lectures

- 2025, TBD TBD
Dagstuhl Institute Symposium on *Theory of Neural Language Models*
- 2024, Nov *TBD*
Mathematics Seminar, CalTech
- 2024, Oct *Mathematical Structures in Linguistics*
Mathematics & Statistics Colloquium, San Jose State University
- 2024, May *Rethinking Poverty of the Stimulus*
Workshop on Theoretical Phonology, Concordia University
- 2024, May *Transductive Linguistics Redux*
Computational Linguistics Lecture Series, CUNY
- 2024, Apr *Mathematical Linguistics and Cognitive Complexity*
Linguistics Colloquium, Rutgers University
- 2024, Jan *Abductive Inference of Phonotactic Constraints*
Atelier de Phonologie, CNRS
- 2024, Jan *Learning (Sub)regular Transformations*
Automata Seminar, Institut de Recherche en Informatique Fondamentale, CNRS
- 2023, Nov *Computational Properties of Language*
Linguistics Department, Harvard University
- 2023, Sep *Rethinking Poverty of the Stimulus*
Cognitive Science Colloquium, University at Buffalo
- 2023, Sep *Rethinking Poverty of the Stimulus*
Language and Cognition Colloquium, Harvard University
- 2023, May *Learning Subregular Transformations*
Dagstuhl Institute Symposium on *Regular Transformations*
- 2023, May *Rethinking Poverty of Stimulus*
Linguistics Colloquium, UC Irvine
- 2023, May *Rethinking Poverty of Stimulus*
UCLA Psycholinguistics Seminar
- 2023, Apr *Abductive Inference of Phonotactic Constraints*
Stanford P-Interest Seminar
- 2023, Jan *Regular & Polyregular Functions and Transformers*
Formal Languages and Neural Networks (FLaNN) Seminar
- 2022, Oct *Generative Capacity & the Linguistic Swampland*
Linguistics Colloquium, UC Davis

- 2022, Jun *Generative Capacity & the Linguistic Swampland*
LINGUAE Seminar, Ecole Normale Supérieure
- 2022, Jun *Robustness in Sequential Pattern Learning Experiments*
Department d'Etudes Cognitives, Ecole Normale Supérieure
- 2022, Apr *Three Mathematical Lessons about Language Learning*
Guest Lecture, University of Utah
- 2022, Mar *Language Emerges from Computability*
Computer Science Dept, San Jose State
- 2021, Sep *Finite-State models and distributed computation in phonology*
Guest Lecture, UC Berkeley Linguistics Department
- 2021, Sep *Abductive Learning of Phonotactic Constraints*
UC Berkeley Linguistics Forum
- 2021, Sep *Typology Emerges from Computability*
NLP Research Group, Monash University
- 2021, Jun *Typology Emerges from Computability*
Association for Computational Linguistics Special Interest Group on Typology (SIGTYP) Lecture Series
- 2020, Feb *Understanding Machine Learning with Language and Tensors*
What Do Formal Languages Tell Us About Cognition?
Phonology and the Chomsky Hierarchy (2 Lectures)
Concordia University, Montreal
- 2019, Nov *Understanding Machine Learning with Language and Tensors.*
Dept. of Physics and Astronomy, Stony Brook University
- 2019, May *Subregular Morphology: Structures, Grammar, and Learning.*
Computational Psycholinguistics Group, Waseda University, Tokyo, Japan
- 2019, May *The Logical Nature of Phonology Across Speech and Sign.*
Linguistics Department, New York University
- 2019, Mar *How the Structure of the Constraint Space Enables Learning.*
L'UFR Linguistique, Université Paris 7 Diderot
- 2018, Nov *Learning with Partially Ordered Representations.*
IACS Seminar Series, Stony Brook University
- 2018, Oct *The Computational Nature of Phonology Across Speech and Sign.*
How the Structure of the Constraint Space Enables Learning.
Linguistics Department, University of Connecticut
- 2018, Mar *The Logical Complexity of Phonology Across Speech and Sign.*
Institut Jean Nicod, Ecole Normale Supérieure
- 2016, Nov *Homeostatic Reinforcement Learning for Harmonic Grammars.*
Linguistics Department, Massachusetts Institute of Technology
- 2016, April *Homeostasis in Harmonic Grammar*
Laboratoire de Neurosciences Cognitives, Ecole Normale Supérieure
- 2013, April *Neuroplasticity and Second-Language Learning*
Linguistics Colloquium, University of Minnesota

Conference and Workshop Talks

- 2024, Jun Li, Amy and **Jonathan Rawski**. *Regular Reduplication Across Modalities*. Society for Computation in Linguistics.
- 2022, Oct **Rawski, Jonathan** and Jeffrey Heinz. *BUFIA: Phonotactic Learning with Non-statistical Abductive Inference*. Tutorial given at Annual Meeting on Phonology
- 2022, Sep **Rawski, Jonathan** and Lucie Baumont. *Phonology and the Linguistic Swampland*. Stony Brook Workshop on Model Theoretic Representations in Phonology
- 2021, Jan Dolatian, Hossep, Jeffrey Heinz, and **Jonathan Rawski**. *Strong Generative Capacity of Morphological Processes*. Society for Computation in Linguistics
- 2020, Sep **Rawski, Jonathan** and Jeffrey Heinz. *What Does "Simplicity" Mean in Grammar Learning?*. Northeast Computational Phonology Circle.
- 2020, Jan Nelson, Max, H. Dolatian, **J. Rawski**, B. Prickett. *Probing RNN Encoder-Decoder Generalization of Subregular Functions Using Reduplication*. Society for Computation in Linguistics
- 2020, Jan Dolatian, Hossep and **Jonathan Rawski**. *Multi-Input Strictly Local Functions for Templatic Morphology*. Society for Computation in Linguistics
- 2019, Nov **Rawski, Jonathan**. *Tensor Product Representations of Subregular Constraints*. Northeast Computational Phonology Circle, Rutgers University.
- 2019, Aug **Rawski, Jonathan**. *Tensor Product Representations of Subregular Formal Languages*. 14th Neural-Symbolic Learning and Reasoning Workshop at the International Joint Conference on Artificial Intelligence (IJCAI), Macau.
- 2019, July **Rawski, Jonathan**, Aniello de Santo, Thomas Graf, Jeffrey Heinz. *Geometric Representations of Linguistic Structures and Computations*. Annual Meeting of the Society for Mathematical Psychology, Montréal, Canada.
- 2019, July Jane Chandlee, Remí Eyraud, Jeffrey Heinz, Adam Jardine, **Jonathan Rawski**. *Learning with Partially Ordered Representations*. 16th Meeting on the Mathematics of language (SIGMOL 2019). Toronto.
- 2019, June Jane Chandlee, Remí Eyraud, Jeffrey Heinz, Adam Jardine, **Jonathan Rawski**. *Learning with Partially Ordered Representations*. University of Reykjavik, Iceland. Workshop on Learning and Automata (LearnAut) at the ACM/IEEE Symposium on Logic in Computer Science (LICS 2019).
- 2019, May **Rawski, Jonathan**. *Grammars, Structures, and Learning with Sparse Data*. Stony Brook-Tokyo Institute of Technology Joint Meeting. Tokyo.
- 2019, May Jane Chandlee and **Jonathan Rawski**. *Learning with Locality Across Speech and Sign*. Workshop on Rules and Learning Strategies Across Spoken and Signed Language at the 43rd Generative Linguistics in the Old World Conference. Oslo.
- 2019, May Dolatian, Hossep and **Jonathan Rawski**. *The Computational Nature of Templatic Morphology*. 4th American International Morphology Meeting. New York.
- 2019, Apr Dolatian, Hossep and **Jonathan Rawski**. *The Computational Nature of Templatic Morphology*. Phonology in the NorthEast. Yale University
- 2019, Apr Dolatian, Hossep, **Jonathan Rawski**, Sedigheh Moradi. *Computational Implementation of Semitic Template Matching*. Annual Symposium on Arabic Linguistics. Toronto.

- 2019, Mar Dolatian, Hossep, **Jonathan Rawski**, Sedigheh Moradi. *The Computational Nature of Templatic Morphology*. 43rd Penn Linguistics Conference. UPenn, Philadelphia.
- 2018, Nov **Rawski, Jonathan**, Jane Chandlee, Remí Eyraud, Jeffrey Heinz, Adam Jardine. *How the Constraint Space Structure Enables Learning*. NorthEast Computational Phonology Circle. MIT, Boston.
- 2018, July Graf, Thomas, A. Aksenova, A. de Santo, H. Dolatian, **J. Rawski**, S. Yang, J. Heinz. *Tiers and Relativized Locality Across Language Modules*. Parallels Between Phonology and Syntax Workshop. Meertens Institut, Amsterdam.
- 2018, May **Rawski, Jonathan**, Jeffrey Heinz, Adam Jardine, Jane Chandlee. *How the Constraint Space Structure Facilitates Learning*. 10th North American Phonology Conference. Concordia University, Montreal.
- 2018, Apr De Santo, A., **J. Rawski**, and J.E. Drury. *Quantified Sentences as a Window into Prediction and Priming: An ERP Study*. Talk. The 54th Annual Meeting of the Chicago Linguistic Society. University of Chicago.
- 2018, Mar **Rawski, Jonathan**. *Pirates & Publishers*. Conference on The Social Responsibility of Intellectuals, New School for Social Research
- 2017, May **Rawski, Jonathan**. *Phonological Complexity is Subregular: Evidence from Sign Language*. Talk. The 53rd Annual Meeting of the Chicago Linguistic Society. University of Chicago.
- 2016, Dec **Rawski, Jonathan**. *Homeostatic Reinforcement Learning for Harmonic Grammars*. Talk. SYNC Conference, CUNY
- 2013, April **Rawski, Jonathan**. *Neuroplasticity in Second Language Learning*. Talk. Minnesota Undergraduate Linguistics Symposium, St. Olaf University
- Conference Posters
- 2024, Nov Swanson, Logan, **Jonathan Rawski**, and Jeffrey Heinz. *Phonotactic Learning and Constraint Selection without Statistics*. Annual Meeting on Phonology, Rutgers University.
- 2024, Jun Sun, Zhouyi and **Jonathan Rawski**. *Tensor Product Representations of Regular Transductions*. Society for Computation in Linguistics.
- 2020, Sep Koser, Nate, Hossep Dolatian, **Jonathan Rawski**, and Kristina Strother-Garcia. *Computational Restrictions on Iterative Prosodic Processes*. Annual Meeting on Phonology, UC Santa Cruz.
- 2020, Jan **Rawski, Jonathan** and Hossep Dolatian. *Multi-Input Strictly Local Functions for Tonal Phonology*. Proceedings of the Society for Computation in Linguistics, volume 3.
- 2019, Oct Dolatian, Hossep and **Jonathan Rawski**. *Computing Tone: Input Strict Locality over Multiple Inputs*. Annual Meeting on Phonology, Stony Brook University.
- 2019, Jan **Rawski, Jonathan**, Jeffrey Heinz, Adam Jardine, Jane Chandlee. *How the Structure of the Constraint Space Enables Learning*. Poster. Society for Computation in Linguistics Meeting, New York City
- 2018, May **Rawski, Jonathan**, Jeffrey Heinz, Adam Jardine, Jane Chandlee. *Learning Within Linguistically Structured Constraint Spaces*. Joint Science Meeting, Stony Brook University.

- 2018, Jan **Rawski, Jonathan.** *Subregular Complexity Across Speech and Sign.* Poster. Society for Computation in Linguistics Meeting, Salt Lake City
- 2017, Nov De Santo, A., **J. Rawski**, and J.E. Drury. *ERP effects for quantifier complexity, priming, and truth-value in an auditory/visual verification task.* Society for the Neurobiology of Language Annual Meeting, Baltimore.
- 2017, Sept **Rawski, Jonathan**, A. de Santo, and J. Heinz. *Reconciling Minimum Description Length with Grammar-Independent Complexity Measures.* Poster. MIT Workshop on Simplicity in Grammar Learning
- 2015, June **Rawski, Jonathan.** *A Homeostatic Space for Optimality Theoretic Grammars.* Poster. Pronouns: Syntax, Semantics, Processing Conference, Moscow
- 2013, Aug **Rawski, Jonathan.** *The Influence of Feedback On L2 Phonology Learning.* Poster. UROP Summer Symposium, University of Minnesota

Leadership, Service, and Affiliations

Journal Reviews

- 2024 Morphology
- 2023 NLLT
- 2022 Phonology, Computational Linguistics, TACL
- 2021 Biology
- 2020 Journal of Linguistics, Journal of Language Modeling
- 2019 Phil. Trans. Royal Society B: Biological Sciences
- 2018 Language

Conference and Grant service

- 2023,2024 Reviewer, NSF Proposals
- 2024 Organizer, LSA Special Session on “Formal Language Theory in Phonology and Morphology
- 2023 Program Committee, Association for Computational Linguistics (ACL)
- 2023 Program Committee, International Conference on Grammatical Inference (ICGI)
- 2022 Area Chair, International Conference on Computational Linguistics (COLING)
- 2022,2023 Program Committee, ACL Special Interest Group on Computational Morphology and Phonology (SIGMORPHON)
- 2020-2022 Program Committee, Conference on Natural Language Learning (CoNLL)
- 2020 Reviewer, Cognitive Science Society Annual Meeting

Department/University

SJSU

- 2024-present Director/Coordinator, MSc program in Computational Linguistics
- 2024-present President’s Advisory Committee on AI
- 2022-2023 College Curriculum Committee
- 2022-2023 LLD Student Association faculty advisor
- 2021-present LLD Department Curriculum Committee
- 2021-present LLD Department Student Advisor

2021-2023 Lead, Planning Committee for new MSc program "Computational Linguistics"
 2021-2023 Planning Committee for new BSc program "Computer Science & Linguistics"
 2021-2022 Department Hiring Committee
 Stony Brook
 2018-2020 Student President, Institute for Advanced Computational Science
 2018 Organizer, Stony Brook-Yale-NYU-CUNY (SYNC) Conference
 2017 - 2018 Organizer, Mathematical Linguistics Reading Group
 2017 Organizer, Northeast Computational Phonology Workshop
 2017 Organizer, Linguistics Colloquium Series
 Students Supervised
 Lena Strobl Visiting PhD Student at MIT, Spring 2024
 Andre SJSU undergrad project "Learning Polyregular Functions with Transformers"
 Domingo
 Alexey High School project "Language Ideology and Criticism in the Constructed Language
 Genzel Community" (accepted as poster at LSA 2023)
 Community Service
 2017-2021 Volunteer, Community Solidarity Association Long Island
 Organized food redistribution from local groceries to local homeless shelters and
 people in need
 Professional Memberships
 2019-Present Society for Mathematical Psychology
 2017-Present Linguistic Society of America
 2017-2021 Society for the Neurobiology of Language