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**June 2016** 

Jan 2016

2010-2012

Academic Positions		
2022 - Now	Research Group Leader  The Language Evolution and Adaptation in Diverse Situations (LEADS) group  Max Planck Institute for Psycholinguistics	
2021 - Now	Lecturer in Social Interaction Centre for Social, Cognitive and Affective Neuroscience (cSCAN) University of Glasgow	
2022 – 2023	Visiting Fellow What Allows Human Language? Seeking the Genetic, Anatomical, Cognitive, and Cultural Factors Underlying Language Emergence Israel Institute for Advanced Studies (IIAS)	
2021	Research Associate at the Artificial Intelligence Lab Department of Computer Science, Vrije Universiteit Brussels	
2020	Research Associate in Cognition and Cognitive Neuroscience Perception Department of Psychology, University of Wisconsin-Madison	
Academic Education		
2016 - 2020	PhD in Psychology of Language, Max Planck Institute for Psycholinguistics (Cum Laude – the highest distinction in the Netherlands)	
2013-2015	M.A in Cognitive Science, Hebrew University of Jerusalem (Summa Cum Laude - the highest distinction in Israel)	
2010-2013	<b>B.A</b> in Cognitive Science and Generative Linguistics, Hebrew University of Jerusalem	
<u>Awards</u>		
Nov 2022	Van Gogh Program, Nuffic	
Dec 2021	Minerva Fast-Track Fellowship, Max-Planck-Gesellschaft (~1 million euros)	
Dec 2021	<b>PhD Thesis Award</b> for outstanding contribution to scientific knowledge, the Dutch Society for Brain and Cognition (NVP)	
Jan 2021	<b>Otto Hahn Medal</b> for outstanding scientific achievements by young scientists, Max-Planck-Gesellschaft	
Apr 2018	<b>Hurford Prize for Best Student Talk</b> , 12th International Conference on the Evolution of Language (EVOLANG XII), Poland	

Best Poster Award, Fifth Implicit Learning Seminar, Lancaster, UK

Best Master's Thesis Award, Department of Cognitive Science, Hebrew University

Full Excellence Scholarship, Department of Mathematics, Hebrew University

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## **Published Peer-Reviewed Papers**

(11 papers, with a total of 342 recorded citations by 01/03/2023 according to Google Scholar)

Raviv, L., Jacobson, S. L., Plotnik, J. M., Bowman, J., Lynch, V., & Benítez-Burraco, A. (in press). Elephants as a new animal model for self-domestication. *Proceedings of the National Academy of Sciences of the United States of America*.

Ozaki, Y., Tierney, A., Pfordresher, P. Q., McBride, J., Benetos, E., ... **Raviv, L.**, ... Savage, P. E. (Stage 1 Registered Report, Accepted In Principle). <u>Similarities and differences in a global sample of song and speech recordings</u>. *Peer Community In Registered Reports*.

**Raviv, L.**, Lupyan, G., Green, S. C. (2022). <u>How variability shapes learning and generalization</u>. *Trends in Cognitive Science*, 26(6), 462-483. doi:10.1016/j.tics.2022.03.007

**Raviv, L.,** Peckre, L., & Boeckx, C (2022). What is simple is actually quite complex: a critical note on terminology in the domain of language and animal communication. *Journal of Comparative Psychology*, 136(4), 215-220. doi:10.1037/com0000328.

**Raviv, L.,** de Heer Kloots, M., & Meyer, A. (2021). What makes a language easy to learn? A preregistered study on how systematic structure and community size affect language learnability. *Cognition*, 210, 104620. doi:10.1016/j.cognition.2021.104620

**Raviv, L.,** Meyer, A., & Lev-Ari, S. (2020). The role of social network structure in the emergence of linguistic structure. *Cognitive Science*, 44(8), e12876. doi:10.1111/cogs.12876

**Raviv**, L., Meyer, A., Lev-Ari, S. (2019b). <u>Larger communities create more systematic languages</u>. *Proceedings of the Royal Society B: Biological Science*, 286(1907). doi:10.1098/rspb.2019.1262

**Raviv, L.**, Meyer, A., Lev-Ari, S. (2019a). <u>Compositional structure can emerge without generational transmission</u>. *Cognition*, 182, 151-164. doi:10.1016/j.cognition.2018.09.010

**Raviv, L.**, & Arnon, I. (2018a). <u>Systematicity, but not compositionality: Examining the emergence of linguistic structure in children and adults using iterated learning</u>. *Cognition*, 181, 160-173. doi:10.1016/j.cognition.2018.08.011

**Raviv, L.**, & Arnon, I. (2018b). <u>The developmental trajectory of children's auditory and visual statistical learning abilities: Modality-based differences in the effect of age</u>. *Developmental Science*. 21(4): e12593. doi:10.1111/desc.12593

Havron, N., **Raviv, L.**, & Arnon, I. (2018). <u>Literate and preliterate children show different learning patterns in an artificial language learning task</u>. *Journal of Cultural Cognitive Science*, 2, 21-33. doi:10.1007/s41809-018-0015-9

## Published books and book chapters

**Raviv**, L., & Kirby, S. (in press). Self-Domestication and the cultural evolution of language. *Oxford Handbook of Cultural Evolution*.

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**Raviv**, L., (2020). <u>Language and society: how social pressures shape grammatical structure</u>. Max Planck Institute for Psycholinguistics. ISBN: 78-94-92910-12-7.

### Papers under review

Raghavan, R., Raviv, L. & Peeters, D. What's your point? Evidence from virtual reality for a link between intention and action in the production of pointing gestures.

Zhou, H., van der Ham, S., de Boer, B., Bogaerts, L. & **Raviv**, **L.** *Modality-based differences in Distributional Statistical Learning: Categorization an production of signals across modalities.* 

## **Media Coverage**

The Economist	Scientific American
The Times	Geographical
ScienceDaily	The Medical News
Cosmos Magazine	Popular Mechanics
Popular Science	Phys.org
<u>Verve times</u>	Newswise
Talk the Talk Podcast	EurekAlert!
<u>TechiAI</u>	Zurichsee Zeitung
OverSixty	The Dissenter Show
Mirage News	Science X
News Azi	Science Daily
Scienmag Science Magazine	Earth.com News
Archaeology News Network	SIGTYP newsletter

## **Teaching**

2022-2023	Current Issues in Psychology, University of Glasgow
2021-2023	Statistical & Scientific Models, University of Glasgow
2019-2023	<b>Data Analysis and Visualization in R,</b> Max Planck Research School for Language Sciences
2021-2022	Language Emergence and Evolution, Cognitive Science Department, Boğaziçi University
2018-2022	Mixed Effects Models in R, Max Planck Research School for Language Sciences
2021-2022	Introduction to Data Analysis and Visualization, Language Learning and Processing Lab, The Hebrew University of Jerusalem
2019-2021	Psychology of Language and Cultural Cognition, Radboud University
2017	A Short Tutorial on Agent Based Modeling in Python, online tutorial on GitHub
2013-2015	Introduction to Linguistics, The Hebrew University of Jerusalem

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## **Supervision**

2022 -	Postdoc	project:	"Language	emergence	with	communicating	AIs:	linking	deep
	learning	neural net	works to exp	erimental da	ıta"				

Lukas Galke

LEADS group, Max Planck Institute for Psycholinguistics

**2022 - PhD project:** "How age and gender diversity shape language innovation and change" Lewis (Ching Yat) Cheung

LEADS group, Max Planck Institute for Psycholinguistics

2022 - PhD project: "Interindividual variability and language evolution: simulation in experimental micro-societies"

Mathilde Josserand Université Lyon

2022 - Research MA thesis: "Do Crovids adapt their vocalizations to different social contexts?"

Sam Woodward

Psychological Science Program, University of Glasgow

2022 - Research MA thesis: "How gendered languages shape gender identity and attitudes towards the LGBTO+ community"

Lucia Feketova

Psychological Science Program, University of Glasgow

2022 - Research MA internship: "The emergence of gestural languages in Virtual Reality"

Luisa Wolf

Linguistics and Communication Sciences research program, Tilburg University and Radboud University

2022 - Research MA internship: "The emergence of vocal languages in Virtual Reality"

Kotryna Motiekaityte

Linguistics and Communication Sciences research program, Tilburg University and Radboud University

2022 Research MA internship: "Learning biases in children and adults"

Mary Bazioni

Department on Linguistics, Radboud University

2022 Research MA thesis: "Testing the emergence of Creole languages in the lab"

Knar Ohanjanyan

Linguistics and Communication Sciences research program, Tilburg University and Radboud University

2022 Research MA thesis: "Gender effects in syntactic priming"

Lingvo Du & Wanrui Xue

Psychological Science Program, University of Glasgow

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2022 Research MA thesis: "Social network effects on second language learning"

Deborah Saini

Psychological Science Program, University of Glasgow

2019-2020 Research MA thesis: "Relating linguistic structure, memory, and group size effects to

language learnability"

Marianne de Heer Kloots

Brain and Cognitive Sciences research program, University of Amsterdam

2019-2020 Research MA thesis: "Language change in online social networks"

Li Lei

Linguistics and Communication Sciences program, Radboud University

## Organized Workshops and Symposia

Sep 2022 Themed Session: **Self-domestication and prosociality in the service of cultural evolution.** the Cultural Evolution Society Meeting, Arhus, Denmark (CES 2022).

Aug 2022 Special Workshop: **Machine Learning and the Evolution of Language** (ml4evolang). the Joint Conference on Language Evolution (JCoLE), Kanazawa, Japan.

## Peer-Reviewed Conference Proceedings Papers

Cambier, N., Miletitch, R., Burraco, A. B., & **Raviv**, L. (2022). <u>Prosociality in swarm robotics: A model to study self-domestication and language evolution</u>. In A. Ravignani, R. Asano, D. Valente, F. Ferretti, S. Hartmann, M. Hayashi, et al. (Eds.), *The evolution of language: Proceedings of the Joint Conference on Language Evolution (JCoLE*) (pp. 98-100). Nijmegen: Joint Conference on Language Evolution (JCoLE).

**Raviv, L.**, Jacobson, S. L., Plotnik, J. M., Bowman, J., Lynch, V., & Benítez-Burraco, A. (2022). <u>Elephants as a new animal model for studying the evolution of language as a result of self-domestication</u>. In A. Ravignani, R. Asano, D. Valente, F. Ferretti, S. Hartmann, M. Hayashi, et al. (Eds.), *The evolution of language: Proceedings of the Joint Conference on Language Evolution (JCoLE)* (pp. 606-608). Nijmegen: Joint Conference on Language Evolution (JCoLE).

Galke, L., Ram, Y., & **Raviv, L.** (2022). <u>Emergent Communication for Understanding Human Language Evolution: What's Missing?</u> Emergent Communication Workshop, Tenth International Conference on Learning Representations (ICLR 2022).

Cambier N., Miletitch, R., Benítez-Burraco, A. & Raviv, L. (2021). <u>First Steps Toward a Swarm Robotics Model of Self-Domestication and Language Evolution</u>. In *The 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP 2021)*. doi:10.48448/30dy-ez50.

Raviv, L., Meyer, A. & Lev-Ari, S. (2020). <u>Network Structure and the Cultural Evolution of Linguistic Structure: A Group Communication Experiment</u>. In *Ravignani, A., Barbieri, C., Martins, M., Flaherty, M., Jadoul, Y., Lattenkamp, E., Little, H., Mudd, K. & Verhoef, T. (Eds.): The* 

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Evolution of Language: Proceedings of the 13th International Conference (EvoLang13). doi:10.17617/2.3190925.

- Thompson, B., Raviv, L. & Kirby, S. (2020). Complexity Can Be Maintained in Small Populations: A Model of Lexical Variability in Emerging Sign Languages. In Ravignani, A., Barbieri, C., Martins, M., Flaherty, M., Jadoul, Y., Lattenkamp, E., Little, H., Mudd, K. & Verhoef, T. (Eds.): The Evolution of Language: Proceedings of the 13th International Conference (EvoLang13). doi:10.17617/2.3190925.
- Lei, L., Raviv, L. & Alday, P. (2020). <u>Using Spatial Visualizations and Real-World Social Networks to Understand Language Evolution and Change</u>. In Ravignani, A., Barbieri, C., Martins, M., Flaherty, M., Jadoul, Y., Lattenkamp, E., Little, H., Mudd, K. & Verhoef, T. (Eds.): The Evolution of Language: Proceedings of the 13th International Conference (EvoLang13). doi:10.17617/2.3190925.
- Ergin, R., Raviv, L., Senghas, A., Padden, C. & Sandler, W. (2020). <u>Community Structure Affects Convergence on Uniform Word Orders: Evidence From Emerging Sign Languages</u>. In *Ravignani, A., Barbieri, C., Martins, M., Flaherty, M., Jadoul, Y., Lattenkamp, E., Little, H., Mudd, K. & Verhoef, T. (Eds.): The Evolution of Language: Proceedings of the 13th International Conference (EvoLang13)*. doi:10.17617/2.3190925.
- Raviv, L., Meyer, A., & Lev-Ari, S. (2018). The role of community size in the emergence of linguistic structure. In Cuskley, C., Flaherty, M., Little, H., McCrohon, L., Ravignani, A. & Verhoef, T. (Eds.): The Evolution of Language: Proceedings of the 12th International Conference (EVOLANGXII). doi:10.12775/3991-1.096
- **Raviv, L.**, & Arnon, I. (2016). <u>Language evolution in the lab: The case of child learners</u>. In *Proceedings of the 38th Annual Meeting of the Cognitive Science Society (CogSci 2016). Austin, TX: Cognitive Science Society*.
- Raviv, L., & Arnon, I. (2016). The developmental trajectory of children's statistical learning abilities. In Proceedings of the 38th Annual Meeting of the Cognitive Science Society (CogSci 2016). Austin, TX: Cognitive Science Society.

### **Invited and Keynote Talks**

- **Mar 2023 Keynote.** The Evolutionary Lens: Addressing Big Questions by (Re)thinking Evolution, The 34th Annual International Workshop on the History and Philosophy of Science, Tel Aviv, Israel
- Mar 2023 NLP talks series, IBM research center, Tel Aviv, Israel
- Nov 2022 Cognitive Lexicon Laboratory & Language, Cognition, and Computation lab, Department of Computer Science & Department of Linguistics, University of Toronto, Canada
- **Sep 2022 Keynote.** Joint Conference on Language Evolution (JCoLE), Kanazawa, Japan & online.

CV – Limor Raviv
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Mar 2022	Cognitive Development Center (CDC) seminar series, the Department of Cognitive Science, Central European University (CEU)
Mar 2022	Amsterdam Center for Language and Communication (ACLC) Seminar, University of Amsterdam, the Netherlands
Mar 2022	Department of Linguistics Seminar, Hebrew University, Jerusalem, Israel
Mar 2022	Cognitive Science seminar series, Yeditepe and Boğaziçi Universities, Turkey
Mar 2022	Linguistics Colloquium, The Department of English Literature and Linguistics, Bar Ilan University, Israel
Dec 2021	Language as an Interactive Game group, Google DeepMind
Nov 2021	ESLR Seminar Series, The Association of Early-career Social Learning Researchers
Nov 2021	The Cultural Evolution of Communication Workshop, Centre for Research in Brain, Language and Music (CRBLM), Department of Biology, McGill University, Canada
Aug 2021	<b>Keynote.</b> The Reconstruction of Human History Through an Interdisciplinary Approach Workshop, University of Zurich, Switzerland
July 2021	Abralin ao Vivo Linguistics Online Series, Brazilian Linguistics Association, Abralin, Brazil
<b>June 2021</b>	SOAS Linguistics Seminar, School of Languages, Cultures and Linguistics, SOAS University of London, UK
June 2021	Computational Communication & Development (CoCoDev) Seminar, Institute of Language, Communication, and the Brain, Department of Computer Science, Aix-Marseille University, France
Apr 2021	The Language and Brain Plasticity Lab, Department of Psychology, University of Haifa, Israel
Jan 2021	Ram Lab for Mathematical Ecology & Evolution, School of Zoology, Safra Center for Bioinformatics, Tel Aviv University, Israel
Jan 2021	Language Complexity Seminar, Department of Linguistics, Hebrew University, Jerusalem, Israel
Nov 2020	Social and Cultural Evolution Workshop Group (SCEW), Penn University of Pennsylvania, USA
Oct 2020	Computation and Language Lab, University of California, Berkeley, USA
Oct 2020	Complexity Science Hub, Vienna, Austria

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Aug 2020	Centre for Social, Cognitive and Affective Neuroscience (cSCAN), Institute of Neuroscience & Psychology, University of Glasgow, UK
July 2020	Department of Communication and Cognition, Tilburg University, the Netherlands
June 2020	Language & Cognition Lab, Division of Psychology and Language Sciences, University College London (UCL), UK
June 2020	Cognitive Biology of Language Group, University of Barcelona, Spain
May 2020	LAL Seminar, School of Languages and Linguistics, University of Melbourne
Mar 2020	Computational Auditory Perception Group, Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany
Feb 2020	Data and Art series, California Institute of the Arts (CalArts), Los Angeles, USA
June 2019	Language, Memory, and Attention group, Cognitive Department Colloquium Series, Royal Holloway, University of London, UK
Apr 2019	Cognitive Science Department Colloquium Series, Haifa University, Israel
Apr 2019	Psychology Department, Hebrew University, Jerusalem, Israel
Dec 2018	Cohn Institute for the History and Philosophy of Science, Tel Aviv University, Israel
Dec 2018	Department of Linguistics, Tel Aviv University, Israel
Oct 2018	Linguistics Department Colloquium Series. University of Arizona, Tucson, USA
Oct 2018	Donders Discussion Series, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands
Aug 2018	Center for Language Evolution, the University of Edinburgh, UK
May 2018	Diversity in Language, Culture and Cognition Colloquium Series. Centre for Language Studies, Radboud University, Nijmegen, the Netherlands
Dec 2017	Multimodal Language and Cognition lab, Radboud University, Nijmegen, the Netherlands
Jan 2016	Linguistics Colloquia series, The Language, Logic and Cognition Center (LLCC), The Hebrew University, Jerusalem, Israel

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## **Presentations at Professional Conferences**

**Aug 2019** 

University of Manchester, UK

**Sep 2022** Self-domestication in a non-human species: elephants as a case study. Talk presented at the Cultural Evolution Society Meeting, Arhus, Denmark (CES 2022) **June 2022** Learnability Effects in Children: Are Languages with more systematic structure Easier to Learn? Poster presented at the International Conference on Interdisciplinary Advances in Statistical Learning, San Sebastian, Spain **Apr 2022 Emergent Communication for Understanding Human Language Evolution:** What's Missing? Talk presented online at the Emergent Communication Workshop, Tenth International Conference on Learning Representations (ICLR 2022) Nov 2021 First Steps Toward a Swarm Robotics Model of Self-Domestication and Language Evolution. Talk presented online at the Novel Ideas in Learning-to-Learn through Interaction Workshop, The Conference on Empirical Methods in Natural Language Processing (EMNLP 2021) Nov 2021 Simulating the Evolution of Language in the Lab. Talk presented at EvoKE Evolution Day, Barcelona Complexity and Simplicity in the evolution of languages across species. Talk **Sept 2021** presented online at Protolang 7 How word order conventions emerge in the manual modality. Talk presented **Sept 2021** online at Protolang 7 **June 2021** Elephants as a new animal model of cultural evolution resulting from selfdomestication. Talk presented online at the Cultural Evolution Society Conference (CES 2021) A swarm robotics model of the cultural evolution of language. Talk presented **June 2021** online at the Cultural Evolution Society Conference (CES 2021) Nov 2020 The role of community size and network structure in shaping linguistic diversity: Experimental evidence. Talk presented online at the Computational Research in Linguistic Typology Workshop, Conference on Empirical Methods in Natural Language Processing (EMNLP 2020) Nov 2019 What makes a language easy to learn? How systematic grammar and community size affect language learnability. Poster presented at the 17th winter conference on Brain & Cognition (NVP), the Netherlands Social structure affects the emergence of linguistic structure: experimental **Sept 2019** evidence. Talk presented at Protolang 6, Lisbon, Portugal

Language Change in Online Social Networks. Talk presented at the Symposium

on Representations, Usage and Social Embedding in Language Change (RUSE), The

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- **July 2019** Memory and generalization: How do group size, structure and learnability relate in lab-evolved artificial languages? Talk presented at Culture Conference 2019: Communication in Culture, the University of Stirling, UK **June 2019** Complexity can be maintained in small populations: a model of lexical variability in emerging sign languages. Talk presented at the Interaction and the Evolution of Linguistic Complexity Workshop, the University of Edinburgh, UK Mar 2019 Input variability promotes the emergence of linguistic structure. Poster presented at the center for the Interdisciplinary Study of Language Evolution (ISLE) Inaugural workshop, University of Zurich, Switzerland Oct 2018 Network structure and the cultural evolution of linguistic structure: An artificial language study. Talk presented at the Cultural Evolution Society Conference (CES 2018). Tempe, Arizona, USA **Apr 2018** The role of community size in the emergence of linguistic structure. Talk presented at the 12th International Conference on the Evolution of Language (EVOLANG XII). Torun, Poland Oct 2017 The role of community size in the emergence of linguistic structure. Talk presented at XLanS: Triggers of language change in the Language Sciences. University of Lyon, France Compositional structure can emerge without generational transmission. Talk **Sept 2017** presented at the Inaugural Cultural Evolution Society Conference (CESC 2017). Max Planck Institute for the Science of Human History, Jena, Germany Mar 2017 Compositional structure can emerge without generational transmission. Talk presented at the 30th Annual CUNY Conference on Human Sentence Processing. MIT, Boston Language evolution in the lab: The case of child learners. Talk presented at the **Aug 2016** 38th Annual Meeting of the Cognitive Science Society (CogSci 2016). Philadelphia, **USA July 2016 Language evolution in the lab: The case of child learners.** Talk presented at the 6th Cognitive Linguistics conference (UK-CLC). Bangor, UK
- **Developmental differences in children's statistical learning abilities.** Talk presented at the conference of Architectures and Mechanisms for Language Processing (AMLaP). Valletta, Malta

Fifth Implicit Learning Seminar. Lancaster, UK

Language evolution in the lab: The case of child learners. Talk presented at the

**June 2016** 

June 2015 Developmental differences in children's statistical learning abilities. Talk presented at Interdisciplinary Advances in Statistical Learning. San Sebastian, Spain

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## **Professional Services**

### 2018-2020 R-Ladies Nijmegen (Co-Founder, Organizer, and Public Relations Officer)

R-Ladies is a local group actively dedicated to promoting gender diversity and equality in the programming community by conducting women-oriented events, tutorials, and hands-on workshops on programming in R.

### 2016-2019 PhD Representative, Max Planck Institute for Psycholinguistics

Representing my fellow PhDs in internal matters (e.g., working conditions, issues with supervision, mental health problems, PhD life, etc.), organizing social events, representing my institute at international Max Planck Society meetings.

### **2017** Kletskoppen Child Language Festival (Activity Coordinator and Developer)

A science festival for children and families organized by language researchers from Nijmegen, featuring interactive demos, live experiments, and informative lectures for parents.

### 2013-2015 The Living Lab for Language Learning and Processing (Co-Founder & Manager)

A public-oriented research laboratory for families inside in the Bloomfield Science Museum, sponsored by the Global Living Lab organization and Hebrew university of Jerusalem, Israel.

### **Journal Article Reviewer**

- Proceedings of the National Academy of Sciences of the United States of America (PNAS)
- Philosophical Transactions B
- Cognitive Science
- Cognition
- Journal of Memory and Language (JML)
- Frontiers in Artificial Intelligence
- Language Development Research
- Journal of Language Evolution
- Journal of Child Language
- Journal of Visualized Experiments (JoVe)

### **Conference Reviewer**

- Joint Conference on Language Evolution (JCoLE 2022)
- the 12th International Conference on the Evolution of Language (EVOLANGXII)
- the 13th International Conference on the Evolution of Language (EVOLANGXIII
- the 39th Annual Meeting of the Cognitive Science Society (CogSci 2017)
- the 40th Annual Meeting of the Cognitive Science Society (CogSci 2018)
- the 41st Annual Meeting of the Cognitive Science Society (CogSci 2019)
- the 44th Annual Meeting of the Cognitive Science Society (CogSci 2022)
- the 45th Annual Meeting of the Cognitive Science Society (CogSci 2023)
- Cognitive and Cultural Influences on Language Emergence Workshop (CCILE 2022)
- Learning in Humans and Machines (L2HM 2018)

### **Funding Agencies Reviewer**

- Japan Society for the Promotion of Science (JSPS)
- National Science Centre of Poland
- Israel Science Foundation (ISF)