

# **CV – Limor Raviv**

Website: <https://www.limorravivevolang.com>

Email: [limor.raviv@mail.huji.ac.il](mailto:limor.raviv@mail.huji.ac.il)

## **Academic Positions**

- 2022 - ...**     **Research Group Leader**  
The Language Evolution and Adaptation in Diverse Situations (LEADS) group  
Max Planck Institute for Psycholinguistics
- 2022 – 2023**   **Visiting Fellow**  
Israel Institute for Advanced Studies (IIAS)
- 2021 - ...**     **Lecturer in Social Interaction**  
Centre for Social, Cognitive and Affective Neuroscience (cSCAN)  
University of Glasgow
- 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.A in Cognitive Science and Generative Linguistics, Hebrew University of Jerusalem**

## **Awards**

- Dec 2021**     **Minerva Fast-Track Fellowship**, Max-Planck-Gesellschaft (~1 million euros)
- Dec 2021**     **PhD Thesis Award** for outstanding contribution to scientific knowledge, the Dutch Society for Brain and Cognition (NVP)
- Jan 2021**     **Otto Hahn Medal** for outstanding scientific achievements by young scientists, Max-Planck-Gesellschaft
- Apr 2018**     **Hurford Prize for Best Student Talk**, 12th International Conference on the Evolution of Language (EVOLANG XII), Poland
- June 2016**   **Best Poster Award**, Fifth Implicit Learning Seminar, Lancaster, UK
- Jan 2016**     **Best Master's Thesis Award**, Department of Cognitive Science, Hebrew University
- 2010-2012**   **Full Excellence Scholarship**, Department of Mathematics, Hebrew University

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## **Published Peer-Reviewed Papers**

(7 papers, with a total of 181 recorded citations by 30/10/2021 according to Google Scholar)

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). [Larger communities create more systematic languages.](#) *Proceedings of the Royal Society B: Biological Science*, 286(1907). doi:10.1098/rspb.2019.1262

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

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

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

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

## **Published Book**

Raviv, L., (2020). [Language and society: how social pressures shape grammatical structure.](#) Doctoral Dissertation, Max Planck Institute for Psycholinguistics. ISBN: 78-94-92910-12-7.

## **Papers under review**

Raviv, L., Green, S. C., & Lupyan, G. (Invited submission by Trends in Cognitive Science). *How variability shapes learning and generalization.*

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

Raviv, L., Peckre, L., & Boeckx, C. *What is simple is actually quite complex: a critical note on terminology in the domain of language and animal communication.*

Raviv, L., Jacobson S., Plotnik J., Bowman J., Lynch V., & Benítez-Burraco, A. *Elephants may be self-domesticated: A new animal model for cultural evolution.*

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.*

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## **Media Coverage**

[The Economist](#)

[The Times](#)

[Geographical](#)

[Talk the Talk Podcast](#)

[The Dissenter Show](#)

[Science X](#)

[Earth.com News](#)

[Archaeology News Network](#)

[Science Daily](#)

[EurekAlert!](#)

[SIGTYP newsletter](#)

## **Teaching**

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

## **Student Supervision**

- 2022 -**            **Postdoc project**  
“Language emergence with communicating AIs: linking deep learning neural networks to experimental data”  
Lukas Galke  
LEADS group, Max Planck Institute for Psycholinguistics
- 2022 -**            **PhD project**  
“How age and gender diversity shape language innovation and change”  
Camilla Lalli  
LEADS group, Max Planck Institute for Psycholinguistics

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- 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
- 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

## **Peer-Reviewed Conference Papers**

Raviv, L., Meyer, A. & Lev-Ari, S. (2020). [Network Structure and the Cultural Evolution of Linguistic Structure: A Group Communication Experiment](#). 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.

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). [Using Spatial Visualizations and Real-World Social Networks to Understand Language Evolution and Change](#). 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). [Community Structure Affects Convergence on Uniform Word Orders: Evidence From 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.

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

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**Raviv, L., & Arnon, I. (2016).** [Language evolution in the lab: The case of child learners](#). 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 Talks**

- 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** **Keynote.** 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
- June 2021** 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
- Aug 2020** Centre for Social, Cognitive and Affective Neuroscience (cSCAN), Institute of Neuroscience & Psychology, University of Glasgow, UK

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- 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

### **Presentations at Professional Conferences**

- Nov 2021** **Simulating the Evolution of Language in the Lab.** Talk presented at EvoKE Evolution Day, Barcelona
- Sept 2021** **Complexity and Simplicity in the evolution of languages across species.** Talk presented online at Protolang 7

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- Sept 2021**    **How word order conventions emerge in the manual modality.** Talk presented online at Protolang 7
- June 2021**    **Elephants as a new animal model of cultural evolution resulting from self-domestication.** Talk presented online at the Cultural Evolution Society Conference (CES 2021)
- June 2021**    **A swarm robotics model of the cultural evolution of language.** Talk presented 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
- Sept 2019**    **Social structure affects the emergence of linguistic structure: experimental evidence.** Talk presented at Protolang 6, Lisbon, Portugal
- Aug 2019**    **Language Change in Online Social Networks.** Talk presented at the Symposium on Representations, Usage and Social Embedding in Language Change (RUSE), The University of Manchester, UK
- 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



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- 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
- Sept 2017**     **Compositional structure can emerge without generational transmission.** Talk 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
- Aug 2016**     **Language evolution in the lab: The case of child learners.** Talk presented at the 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
- June 2016**     **Language evolution in the lab: The case of child learners.** Talk presented at the Fifth Implicit Learning Seminar. Lancaster, UK
- Sept 2015**     **Developmental differences in children's statistical learning abilities.** Talk presented at the conference of Architectures and Mechanisms for Language Processing (AMLaP). Valletta, Malta
- June 2015**     **Developmental differences in children's statistical learning abilities.** Talk presented at Interdisciplinary Advances in Statistical Learning. San Sebastian, Spain

## **Professional Services**

- 2018-2020**     **Co-Founder, Organizer, and Public Relations Officer, R-Ladies Nijmegen**  
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**     **Activity Coordinator and Developer, Kletsoppen Child Language Festival**  
A science festival for children and families organized by language researchers from Nijmegen. The festival features interactive demos, live experiments, and informative lectures for parents, and aims to expose the public to the science behind language learning and communication.
- 2013-2015**     **Co-Founder & Manager, The Living Lab for Language Learning and Processing**  
A public-oriented research laboratory located inside in the Bloomfield Science Museum, sponsored by the Global Living Lab organization and the Hebrew university of Jerusalem, Israel. The lab offered families visiting the museum a chance to learn



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about child development, participate in various studies, and speak with scientists about their methods and theories.

### **Journal Article Reviewer**

- Cognitive Science
- Language Development Research
- Journal of Language Evolution
- Journal of Child Language
- Journal of Visualized Experiments (JoVe)

### **Conference Reviewer**

- 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)
- Learning in Humans and Machines (L2HM 2018)