

Afra Alishahi – Curriculum Vitae

EDUCATION	PhD, 2008	University of Toronto , Toronto, Canada Computer Science
	M.S., 1998	Tehran University , Tehran, Iran Computer Engineering
	B.S., 1994	Sharif University of Technology , Tehran, Iran Computer Engineering
PROFESSIONAL POSITIONS		Associate Professor , Department of Cognitive Science and Artificial Intelligence, Tilburg University, The Netherlands, (2014–present)
		Assistant Professor , Department of Cognitive Science and Artificial Intelligence, Tilburg University, The Netherlands, (2011–2014)
		Postdoctoral fellow , Computational Psycholinguistics group, Department of Computational Linguistics and Phonetics, Saarland University, Saarbrücken, Germany (2008–2011)
GRANTS AND AWARDS		Recipient of Dutch National Research Agenda (NWA-ORC) as a member of a national consortium, 2020.
		Recipient of the NWO e-Science grant as part of the Accelerating Scientific Discovery (ASDI) initiative (with dr. Grzegorz Chrupala), 2018.
		Recipient of the NWO Aspasia grant, 2015.
		Recipient of the NWO Natural Artificial Intelligence grant for the project Learning to Communicate via Social and Linguistic Interactions (with dr. Paul Vogt and prof. Emiel Krahmer), 2015.
		Winner of the Best Paper Award , the 21st Conference on Natural Language Learning (with Marie Barking and dr. Grzegorz Chrupala), 2017.
		Winner of the Cognitive Science Prize for the best paper on Language Modeling, the 30th Annual Conference of the Cognitive Science Society, 2008 (with dr. Afsaneh Fazly and prof. Suzanne Stevenson), 2008.
		Honorable mention for Marr Prize for the best student paper, the 27th Annual Conference of the Cognitive Science Society, 2005.
		University of Toronto Fellowship , 2002-2007.

Publications

JOURNAL ARTICLES

Mitja Nikolaus, **Afra Alishahi** and Grzegorz Chrupała (2022). Learning English with Peppa Pig. *Transactions of the Association for Computational Linguistics*, 10, 922–936.

Afra Alishahi, Grzegorz Chrupała and Tal Linzen (2019). Analyzing and Interpreting Neural Networks for NLP: A Report on the First BlackboxNLP Workshop. *Natural Language Engineering*, 25(4), 543–557.

Ákos Kádár, Grzegorz Chrupała and **Afra Alishahi** (2017). Representation of linguistic form and function in recurrent neural networks. *Computational Linguistics*, 43(4), 761–780.

Yevgen Matushevych, **Afra Alishahi** and Ad Backus (2017). The impact of first and second language exposure on learning second language constructions. *Bilingualism: Language and Cognition*, 20(1), 128–149.

Yeven Matushevych, **Afra Alishahi** and Ad Backus (2017). Quantifying cross-linguistic influence with a computational model: A study of case-marking comprehension. *Linguistic Approaches to Bilingualism*. Advance online publication. DOI: 10.1075/lab.16038.mat.

Yeven Matushevych, **Afra Alishahi** and Ad Backus (2016). Modeling verb selection within argument structure constructions. *Language, Cognition and Neuroscience*, 31(10), 1215–1244.

Ákos Kádár, Grzegorz Chrupała, **Afra Alishahi** (2016). Learning word meanings from images of natural scenes. *Traitement Automatique des Langues (TAL)*, Special Issue on “Natural Language Processing and Cognition”.

Afra Alishahi (2014). Lifecycle of a probabilistic constructions. *Theoretical Linguistics*, 40:1-2, 77–88.

Eva van den Bemd, Maria Mos and **Afra Alishahi** (2014). Does sentence structure boost early word learning? An artificial language learning study. *Wiener Linguistische Gazette*, Issue 78A.

Afra Alishahi, Afsaneh Fazly, Judith Koehne and Matthew Crocker (2012). Sentence-based attentional mechanisms in word learning: Evidence from a computational model. *Frontiers in Developmental Psychology*, 3:200.

Afra Alishahi and Suzanne Stevenson (2010). A computational model of learning semantic roles from child-directed language. *Language and Cognitive Processes*, 25:1, 50–93.

Afsaneh Fazly, **Afra Alishahi** and Suzanne Stevenson (2010). A probabilistic computational model of cross-situational word learning. *Cognitive Science*, 34:6, 1017–1063

Afra Alishahi and Suzanne Stevenson (2008). A computational model for early argument structure acquisition. *Cognitive Science*, 32:5, 789–834.

Bertrand Higy, Lieke Gelderloos, **Afra Alishahi** and Grzegorz Chrupała (2021). Discrete representations in neural models of spoken language. In *Proceedings of the Fourth BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP at EMNLP 2021*.

Grzegorz Chrupała, Bertrand Higy and **Afra Alishahi** (2020). Analyzing analytical methods: The case of phonology in neural models of spoken language. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*.

Lieke Gelderloos, Grzegorz Chrupała and **Afra Alishahi** (2020). Learning to understand child- and adult-directed speech. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL)*.

Lieke Gelderloos, Alireza M. Kamelabad and Afra Alishahi (2020). Active Word Learning through Self-supervision. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society (CogSci)*.

Grzegorz Chrupała and **Afra Alishahi** (2019). Correlating neural and symbolic representations of language. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL)*.

Daan Keijser, Lieke Gelderloos and **Afra Alishahi** (2019). Curious topics: a curiosity-based model of first language word learning. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society (CogSci)*, Montreal, Canada.

Grzegorz Chrupała, Lieke Gelderloos, Ákos Kádár and **Afra Alishahi** (2019). On the difficulty of a distributional semantics of spoken language. In *Proceedings of the Society for Computation in Linguistics (SCiL)*.

Tal Linzen, Grzegorz Chrupała and **Afra Alishahi**, editors (2018). Proceedings of the Workshop: Analyzing and Interpreting Neural Networks for NLP, BlackboxNLP at EMNLP 2018, Brussels, Belgium. Association for Computational Linguistics.

Ákos Kádár, Desmond Elliott, Marc-Alexandre Côté, Grzegorz Chrupała and **Afra Alishahi** (2018). Lessons learned in multilingual grounded language learning. In *Proceedings of Conference on Computational Natural Language Learning (CoNLL)*.

Ákos Kádár, Marc-Alexandre Côté, Grzegorz Chrupała and **Afra Alishahi** (2018). Revisiting the Hierarchical Multiscale LSTM. In *Proceedings of the Conference on Computational Linguistics (COLING)*.

Afra Alishahi, Marie Barking and Grzegorz Chrupała (2017). Encoding of phonology in a recurrent neural model of grounded speech. In *Proceedings of Conference on Computational Natural Language Learning (CoNLL)*.

Grzegorz Chrupała, Lieke Gelderloos and **Afra Alishahi** (2017). Representations of language in a model of visually grounded speech signal. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*.

Moinuddin M. Haque, Paul Vogt, **Afra Alishahi** and Emiel Krahmer (2016). A connectionist model for automatic generation of child-adult interaction patterns. In *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, Philadelphia, Pennsylvania.

Grzegorz Chrupała, Ákos Kádár and **Afra Alishahi** (2015). Learning language through

pictures. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*.

Yevgen Matusevych, **Afra Alishahi** and Ad Backus (2015). Distributional determinants of learning argument structure constructions in first and second language. In *Proceedings of the 37th Annual Conference of the Cognitive Science Society*, Pasadena, USA

Yevgen Matusevych, **Afra Alishahi** and Ad Backus (2014). Isolating second language acquisition factors: A computational model of bilingual construction learning. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*, Quebec City, Canada.

Yevgen Matusevych, **Afra Alishahi** and Paul Vogt (2013). Automatic generation of naturalistic child-adult interaction data. *Proceedings of the 35th Annual Conference of the Cognitive Science Society*, Berlin, Germany.

Afra Alishahi and Grzegorz Chrupała (2012). Concurrent acquisition of word meaning and lexical categories. *Proceedings of the 2012 Conference on Empirical Methods on Natural Language Processing and Computational Natural Language Learning (EMNLP-CoNLL 2012)*, Jeju, Korea.

Afra Alishahi and Pirta Pykkönen (2011). The onset of syntactic bootstrapping in word learning: Evidence from a computational study. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, Boston, USA.

Alexis Palmer, **Afra Alishahi**, and Caroline Sporleder (2011). Robust Semantic Analysis for Unseen Data in FrameNet. RANLP 2011, Hissar, Bulgaria.

Afra Alishahi and Afsaneh Fazly (2010). Integrating syntactic knowledge into a model of cross-situational word learning. In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, Portland, Oregon.

Grzegorz Chrupała and **Afra Alishahi** (2010). Online entropy-based model of lexical category acquisition. In *Proceedings of the 14th Conference on Computational Natural Language Learning (CoNLL)*, Uppsala, Sweden.

Afsaneh Fazly, Fatemeh Ahmadi-Fakhr, **Afra Alishahi** and Suzanne Stevenson (2010). Cross-situational learning of low frequency words: the role of context familiarity and age of exposure. In *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, Portland, Oregon.

Afra Alishahi and Grzegorz Chrupała (2009). Lexical category acquisition as an incremental process. In *Proceedings of the 5th Workshop on Psychocomputational Models of Human Language Acquisition*, Amsterdam, July 2009.

Afsaneh Fazly, **Afra Alishahi** and Suzanne Stevenson (2008). A probabilistic incremental model of word learning in the presence of referential uncertainty. In *Proceedings of the 30th Annual Conference of the Cognitive Science Society*, Washington, D.C.

Afra Alishahi, Afsaneh Fazly and Suzanne Stevenson (2008). Fast mapping in word learning: what probabilities tell us. In *Proceedings of the 12th Conference on Computational Natural Language Learning*, Manchester, UK.

Afra Alishahi and Suzanne Stevenson (2007). A cognitive model for the representation and acquisition of verb selectional preferences. In *Proceedings of the ACL Workshop on*

Cognitive Aspects of Computational Language Acquisition, Prague, Czech Republic.

Afra Alishahi and Suzanne Stevenson (2007). A computational usage-based model for learning general properties of semantic roles. In *Proceedings of the European Cognitive Science Conference*, Delphi, Greece.

Afra Alishahi and Suzanne Stevenson (2005). The acquisition and use of argument structure constructions: a Bayesian model. In *Proceedings of the ACL 2005 Workshop on Psychocomputational Models of Human Language Acquisition*, Ann Arbor, USA.

Afra Alishahi and Suzanne Stevenson (2005). A probabilistic model of early argument structure acquisition. In *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, Stresa, Italy.

M. Amin Zia, **Afra Alishahi**, M. Reza A. Shirazi, Caro Lucas (2001). Development of a multi-agent information management system for Iran Power Industry: a case study. In *Proceedings of the first IEEE PowerTech Conference of the XXI Century*, Porto, Portugal.

Afra Alishahi and Caro Lucas (1998). A fuzzy clustering algorithm for automatic classification of concepts extracted from unstructured text. In *Proceedings of the 4th Annual International Conference of the Computer Society of Iran*, Tehran, Iran.

Caro Lucas and **Afra Alishahi** (1998). A hybrid neural network for concept clustering. In *Irano-Armenian Workshop on Scientific and Industrial Applications of Neural Networks*, Nor Amberd, Armenia.

BOOKS,
COLLECTIONS &
BOOK CHAPTERS

Afra Alishahi, Grzegorz Chrupała, Alex Cristia, Emmanuel Dupoux, Bertrand Higy, Malvin Lavechin, Okko Räsänen and Chen Yu (2021). ZR-2021VG: Zero-Resource Speech Challenge, Visually-Grounded Language Modelling track.

Afra Alishahi, Yonatan Belinkov, Grzegorz Chrupała, Dieuwke Hupkes, Yuval Pinter, Hassan Sajjad (2020). Proceedings of the Third BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP. The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP).

Grzegorz Chrupała, Tal Linzen and **Afra Alishahi** (2018). Proceedings of the 2018 EMNLP Workshop BlackboxNLP: Analyzing and Interpreting Neural Networks for NLP. The 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP).

Daniel Freudenthal and **Afra Alishahi** (2014). Computational models of language development. In P. Brooks and V. Kempe (editors), *Encyclopedia of Language Development*. SAGE Publications.

Thierry Poibeau, Aline Villavicencio, Anna Korhonen, and **Afra Alishahi** (2013). Cognitive aspects of computational language acquisition. Springer.

Afra Alishahi and Suzanne Stevenson (2013). Gradual Acquisition of Verb Selectional Preferences in a Bayesian Model. in Thierry Poibeau, Aline Villavicencio, Anna Korhonen, and Afra Alishahi (editors). *Cognitive aspects of computational language acquisition*. Springer.

Afra Alishahi. Computational Modeling of Human Language Acquisition (2010). *Synthesis Lectures on Human Language Technologies*, Morgan & Claypool.

Afra Alishahi (2008). A probabilistic model of early argument structure acquisition. Ph.D. dissertation, Department of Computer Science, University of Toronto.

NON-REFEREED
PUBLICATIONS

Afra Alishahi, 2007. Book Review: Language and the learning curve. *Computational Linguistics*, 33:4, 602–603.

UNDER REVIEW

Ruthe Foushee, Dan Byrne, Raquel Alhama, Allyson Ettinger, **Afra Alishahi** and Susan Goldin-Meadow. Tracking the onset of productive determiner+noun combinations in English-learners. Submitted to *Journal of Cognition and Development*.

Hosein Mohebbi, Willem Zuidema, Grzegorz Chrupala and **Afra Alishahi**. Quantifying context mixing in transformers. Submitted to the *17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023)*.

Professional Activities

PROFESSIONAL
ACTIVITIES &
SOCIETY
MEMBERSHIP

Action Editor for the journal Transactions of the Association for Computational Linguistics (2021-present).

Editorial Board Member, Frontiers in Language Sciences (2012–present).

Advisory Board Member, Interdisciplinary Research Master Brain and Cognitive Sciences (RMBCS), University of Amsterdam (2020–present).

Senior Area Chair for Linguistic Theories, Cognitive Modeling and Psycholinguistics, Conference of the European Chapter of the Association for Computational Linguistics (EACL) 2021.

Area Chair for Interpretability and Analysis of Models for NLP, Conference of the Association for Computational Linguistics (ACL), 2021.

Area Chair for Interpretability and Analysis of Models for NLP, Conference of the Association for Computational Linguistics (ACL), July 2020.

Organizer, Third BlackboxNLP Workshop, Empirical Methods on Natural Language Processing (EMNLP), Dominican Republic, November 2020.

Area Chair for Linguistic Theories Cognitive Modeling and Psycholinguistics, Conference of the Association for Computational Linguistics (ACL), July–August 2019.

Organizer, First BlackboxNLP Workshop, Empirical Methods on Natural Language Processing (EMNLP), Brussels, Belgium, November 2018.

Member of the best paper award committee, Conference on Computational Natural Language Learning (CoNLL), November 2018.

Area Chair for Conference on Computational Linguistics (COLING), August 2018.

Area Chair of Computational Psycholinguistics for Conference on Computational Linguistics (COLING), December 2016.

Program chair of the 19th Conference on Computational Natural Language Learning (CoNLL 2015) (with Alessandro Moschitti), July 2015.

Tutorial Chair of the 14th European chapter of the Association for Computational Linguistics (EACL), April 2014.

Area Chair of the Computational Models for Human Language Acquisition and Processing track, Empirical Methods on Natural Language Processing (EMNLP), October 2013.

Area Chair of the Computational Psycholinguistics track, 13th Conference of the European Chapter of the Association for computational Linguistics (EACL), April 2012.

Organizer of the 8th IRTG Summer School in Computational Linguistics and Psycholinguistics, Kloster Irsee, Germany, June 2009.

Co-chair of the EACL Workshop on Cognitive Aspects of Computational Language Acquisition, Athens, Greece, March 2009.

Program Committee for ACL, EACL, NAACL, EMNLP, COLING and CoNLL conferences since 2009.

Reviewer for journals

Transactions of the Association for Computational Linguistics

Cognition

Cognitive Science

Language and Cognitive Processes

Frontiers in Language Sciences

Frontiers in Developmental Psychology

Research on Language and Computation

Reviewer for conferences

Annual Meetings of the Cognitive Science Society (CogSci)

Annual Meetings of the Association for Computational Linguistics (ACL)

North American chapter of the Association for Computational Linguistics (NAACL)

Conference on Natural Language Learning (CoNLL)

European Cognitive Science Conference (EuroCogSci)

Conference on Human Factors in Computing Systems (CHI)

Member

CLAIRE, Confederation of Laboratories for Artificial Intelligence Research in Europe

PASCAL Network of Excellence, funded by the European Union

Association for Computational Linguistics

Cognitive Science Society

Research Grants

Dutch National Research Agenda (NWA-ORC).

Team: a national consortium, including Tilburg University, University of Amsterdam, Vrije Universiteit Amsterdam, Groningen University, Radboud University and a number of industrial and not-for-profit partners.

Period: 2020–2025.

Amount: €2,000,000.

NWO e-Science grant as part of the Accelerating Scientific Discovery (ASDI) initiative.

Team: With dr. Grzegorz Chrupała).

Period: 2018–2020.

Amount: €100,000.

NWO Aspasia grant.

Period: 2015–2019.

Amount: €200,000.

NWO Natural Artificial Intelligence grant for the project Learning to Communicate via Social and Linguistic Interactions.

Team: With dr. Paul Vogt and prof. Emiel Krahmer.

Period: 2016–2020.

Amount: €200,000.

PhD Theses

PHD SUPERVISION	Hosein Mohebbi, promoter (co-supervisors: dr. W. Zuidema, dr. G. Chrupała), 2021–present.
	Gaofei Shen, promoter (co-supervisors: dr. G. Chrupała, dr. A. Bisazza), 2022–present.
	Charlotte Pouw, co-supervisor (promoter: dr. W. Zuidema), 2022–present.
	Lieke Gelderloos, promoter (co-supervisors: dr. R. Fernandez, dr. G. Chrupała; co-promoter: prof. E. Postma), 2016–present.
	Ákos Kádár, promoter (co-supervisor: dr. G. Chrupała; co-promoter: prof. E. Postma), 2014–2019.
	Yevgen Matusevych, daily supervisor (promoter: prof. A. Backus), 2012–2016.
MEMBER OF DOCTORATE COMMITTEE	Danny Merks, Language in Interaction Consortium, Radboud University, November 2022.
	Alessio Miaschi, Computer Science Department, University of Pisa, March 2022.

Pia Sommerauer, Computational Linguistics at the Computational Lexicology and Terminology Lab, Vrije Universiteit Amsterdam, January 2022.

Ravi Shekar, Department of Information Engineering and Computer Science (DISI), University of Trento, May 2019.

Raquel Alhama, Institute of Logic, Language and Computation (ILLC), University of Amsterdam, November 2017.

Barend Beekhuizen, Leiden University Centre for Linguistics (LUCL), Leiden University, September 2015.

Teaching Experience

NATIONAL &
INTERNATIONAL
VENUES

Explainable AI (2021, with Rineke Verbrugge). Online course for the Netherlands Research School for Information and Knowledge Systems (SIKS).

Grounded Language Learning, from Sounds and Images to Meaning (2019). Invited lecture at PAISS 2019 Artificial Intelligence Summer School, Paris, France.

Introduction to computational modelling (2016). LOT Winter School, Tilburg, The Netherlands.

What computational models can tell us about language (2012) SMART Cognitive Science Lectures, Faculty of Humanities, University of Amsterdam, The Netherlands.

Computational Modeling of Human Language Acquisition (2010, with A. Fazly). European Summer School in Logic, Language and Information (ESSLLI), University of Copenhagen, Denmark.

Computational Modeling of Human Language Acquisition (2009). The 47th Annual Meeting of the Association for Computational Linguistics (ACL), Singapore.

DEPT. OF
COGNITIVE SCIENCE
& AI,
TILBURG
UNIVERSITY

Cognitive Models of Language Learning, 2015–2022.
Master's course.

Language, Cognition and Communication, 2021–2022.
Bachelor's course.

Research Skills: Data Processing with Python, 2017–2021.
Master's course.

DEPT. OF
COMMUNICATION
AND INFORMATION
SCIENCES,
TILBURG
UNIVERSITY

Understanding Cooperation in Communication, 2013–2015.
Masters course.

Cognitive Linguistics, 2011–2014.
Bachelors course.

Language in the Digital Age (Introduction to NLP), 2013–2015.
Bachelors course.

Journalistic Data Mining, 2012.
Masters course.

Research Workshop: Human aspects of Information Technology, 2012.
Bachelors project.

DEPT. OF
COMPUTATIONAL
LINGUISTICS,
SAARLAND
UNIVERSITY

Cognitive Modeling of Human Language Acquisition, 2009–2010.
Graduate-level seminar.

Computational Psycholinguistics, 2008–2009.
Masters course.

DEPT. OF
COMPUTER
SCIENCE,
UNIVERSITY OF
TORONTO

Teaching Assistant,
Computer Programming, Algorithms and Data Structure, 2007.
Introduction to Computer Science, 2006, 2007.
Breaking the Code: How Children Learn Language, 2005, 2006.
Introduction to Artificial Intelligence, 2004.
Principles of Programming Languages, 2003, 2004.

DEPT. OF
COMPUTER
ENGINEERING,
TEHRAN
UNIVERSITY

Introduction to Computer Programming, (1999)
Bachelors course.

Keynote Addresses and Invited Talks

Invited talk at the Cognitive Science Department, University of Arizona, Us, November 2022 (upcoming).

Keynote at (Dis)embodiment conference, University of Gothenburg, Sweden, September 2022.

Invited panel participant on Artificial stupidity: the danger of glorifying Artificial Intelligence, Studium Generale Tilburg, September 2022.

Invited talk at the Centre for Linguistic Theory and Studies in Probability (CLASP), University of Gothenburg, Sweden, February 2022.

Invited talk at KONVENS (Konferenz zur Verarbeitung natürlicher Sprache/Conference on Natural Language Processing), Dusseldorf, Germany, September 2021.

Invited talk at Tilburg University Artificial Intelligence Special Interest Group (TAISIG), Netherlands, May 2021.

Invited talk at Cognitive Machine Learning (CoML), Ecole Normale Supérieure, Paris, France, January 2021.

Keynote at *Sem/SemEval 2020, December 2020.

Invited talk at EurNLP 2020, Paris, November 2020 (postponed).

Grounding and interaction in models of human language acquisition. Linguistics Department, University of Geneva, December 2019.

Grounded Language Learning, from Sounds & Images to Meaning (and everything in between). PAISS 2019: the PRAIRIE AI Summer School, Paris, October 2019.

Understanding emergent linguistic representations in neural models of language. Women in Data Science Conference 2019, Copenhagen, April 2019.

Getting closer to reality: grounding and interaction in models of human language acquisition. Computational Linguistics seminar, ILLC, Amsterdam, March 2019.

Getting closer to reality: grounding and interaction in models of human language acquisition. Center for Mind/Brain Sciences (CIMEC), Trento University, Italy, 2018.

Emerging representations of form and meaning in models of grounded language. Keynote at Workshop on Learning Language in Humans and in Machines, Ecole Normale Supérieure, Paris, France, 2018.

Emerging representations of form and meaning in models of grounded language. EcoGest meeting, Bielefeld University, Germany, 2018.

Emergence of linguistic knowledge in a visually-grounded model of speech. Institute for Language, Cognition and Computation (ILCC), School of Informatics, University of Edinburgh, Scotland, 2017.

Representations of language in a model of grounded speech. Keynote at Second Workshop on Language Learning, IEEE ICDL-EPIROB, Lisbon, Portugal, 2017.

Generalization patterns in a probabilistic model of argument structure acquisition. Computational Linguistics Laboratory, University of Pisa, Pisa, Italy, 2016.

Language learning in a perceptual context. EMNLP 2015 workshop on Cognitive Aspects of Computational Language Learning, Lisbon, Portugal, 2015.

Child word learning from a computational perspective. Center for Mind/Brain Sciences (CIMEC), University of Trento, Italy, 2013.

Language learning as a unified probabilistic process. Institute of Psychology, Health and Society, University of Liverpool, United Kingdom, 2012.

What computational models can tell us about language. SMART Cognitive Science Lectures, Faculty of Humanities, University of Amsterdam, The Netherlands, 2012.

A Bayesian account of the acquisition of abstract argument structure constructions. ATILA meeting, Antwerp, Belgium, 2012.

The acquisition of abstract argument structure constructions from child-directed data. The Fourth International Conference of the German Cognitive Linguistics Association, Bremen, Germany, 2010.

A Bayesian account of the acquisition of abstract argument structure constructions. Institute for Logic, Language, and Computation, University of Amsterdam, Netherlands, 2010.

Learning semantic roles from child-directed data: insights from a probabilistic model of early language learning. Research Centre for English and Applied Linguistics, University of Cambridge, United Kingdom, 2010.

Modeling different aspects of child language acquisition as a probabilistic process. Cognitive Development Center, Central European University (CEU), Budapest, Hungary, 2010.

A probabilistic model of early argument structure acquisition. The 8th annual meeting of the International Research Training Group (IRTG), University of Edinburgh, Scotland, 2008.

Language learning as a decision making process. Center for Adaptive Behaviour and Cognition (ABC), Max Planck Institute, Berlin, Germany, 2008.

Computational modeling of child verb learning. Applied Computer Science Group, Bielefeld University, Germany, 2007.