

CLASP Annual Report 2025

Sharid Loáiciga

12th March 2026

1 Introduction

10 Years of CLASP. 2025 marked the tenth anniversary of CLASP and its original official final year. The main goal of the grant was to boost and strengthen research in linguistic theory and computational linguistics with cognitive concerns within the department. This goal has been achieved through the extensive work produced by CLASP members over the years, as evidenced by numerous international publications and research outputs, the creation of permanent positions, and the strong network of national and international collaborations established over time. There is an international identity and recognition which has been created through the years.

CLASP emerged with the explosion of the AI revolution, and our research has been part of this revolution. In particular, it has focused on the exploration of parallels and divergencies between human learning and representation on one hand, and the way in which AI models acquire and process information, particularly for natural language.

CLASP is internally organized into four loosely connected research areas that together provide broad coverage of AI-related approaches to linguistic theory and probabilistic models of language: (i) Dialogue, (ii) Type Theory and Semantics, (iii) Machine Learning, Cognitive Modeling, and Natural Language Processing, and (iv) Cognitive Systems. These areas do not constitute hard group divisions, but they serve as points of orientation, and researchers collaborate across groups freely. Indeed, one of CLASP's central values has been scientific freedom: researchers are encouraged to pursue and develop their own research agendas rather than adhere to predefined ones.

In addition, CLASP has played an active role in education, which has in turn strengthened both our research environment and our reputation. The coordination and steering committee chair of the Master's Programme in Language Technology (shared with the Department of Computer Science and the Department of Swedish, Multilingualism and Language Technology) have been managed by members of CLASP. The programme enjoys a strong reputation in Sweden for its high educational quality. At the doctoral level, computational linguistics was previously a specialisation in the linguistics PhD programme, and, with CLASP, a separate PhD programme in computational linguistics was encouraged. Over the past 10 years, nine PhD students have graduated and two more are on track to graduate by the end of the year. Alumni from both programmes, have found positions, either in academia or in the tech industry. With the end of the project, the PhD programme continues to provide a solid foundation for doctoral students within the department.

As the project comes to an end, an organizational framework remains, together with several principles that we believe will continue to be valuable for the area going forward:

- A research programme committed to exploring both theoretical and computational approaches to language and how they can inform one another. CLASP is one of the few such research

centres worldwide with such integrated focus. There is a strong desire among CLASP members to maintain this unique, world-leading programme, which bridges computational linguistics, linguistics, and logic across different sections of the department.

- In addition to coordination, it can be advantageous to refer to this shared framework in grant applications, demonstrating a supportive research environment in which work can be carried out. Maintaining such an association provides a common identity for our subfields creating a sense of belonging that complements the formal departmental structure.
- CLASP currently runs a weekly research seminar. Funding to continue a version of this seminar could be sought from the relevant subject area councils, subject to agreement among all parties, as part of a joint seminar series aimed at maintaining connections between the various projects.

In addition to having contributed to major international conferences and journals, CLASP has hosted a number of high profile scientific events, published their proceedings in the ACL Anthology, and produced two published collections with well known scientific publishers, CSLI and CRC (Taylor & Francis). Moreover, several of our members have published monographs with leading scientific publishers. Building on this tradition, we are now working toward a concluding volume with contributions from past and present members that showcases the breadth and diversity of the research carried out at CLASP over the years.

2 CLASP Staff

Researchers

- **Rasmus Blanck** Associate Senior Lecturer in Computational Linguistics (Docent in Logic)
- **Ellen Breitholtz** Senior Lecturer in Linguistics (FLoV), researcher in CLASP
- **Robin Cooper** Senior Researcher at CLASP, Professor Emeritus of Computational Linguistics, Acting Head of CLASP
- **Simon Dobnik** Professor of Computational Linguistics
- **Christine Howes** Professor of Computational Linguistics
- **Shalom Lappin** Professor, Senior Researcher, Chief Scientist of CLASP
- **Staffan Larsson** Professor of Computational Linguistics
- **Sharid Loáiciga** Associate Senior Lecturer in Computational Linguistics (Docent in Computational Linguistics), Coordinating Director of CLASP
- **Asad Sayeed** Professor of Computational Linguistics (from January 2026)

Postdoctoral Researchers

- **Mattias Appelgren**
- **Nikolai Ilinykh**
- **Hyewon Jang**
- **Bill Noble**
- **David Pagmar**

PhD Students

- **Alexander Berman**
- **Amandine Decker** Double degree agreement with the University of Lorraine, Nancy, France

Associate Researchers

- **Stergios Chatzikyriakidis** Associate Director of CLASP until June 2021; currently Professor of Computational Linguistics at the University of Crete
- **Alexander Clark** Researcher in computational linguistics specialising in grammatical inference and theoretical/mathematical approaches to natural language
- **Chris Fox** Previously Reader in Computer Science (Essex, UK), researcher in computational linguistics and formal semantics
- **Eleni Gregoromichelaki** Professor of Linguistics in the Department of Philosophy, Linguistics, and Theory of Science at the University of Gothenburg
- **Ruth Kempson** Fellow of the British Academy, Member of Academia Europaea, Professor Emerita of Linguistics, Philosophy Department, King’s College London
- **Vladislav Maraev** Postdoctoral Researcher

Administrators

- **Susanna Myyry**
- **Kaj Ailomaa** Systems Administrator

3 Research Activities and Research Groups

Dialogue Group

The dialogue group continues to publish in a wide variety of venues with many internal and external collaborators (see publications, appendix A), and meet fortnightly for our Dialogue Reading Group. We also hosted a number of visitors throughout the year, with longer research visits from Alafate Abulimiti (Sorbonne Université), Mathias Barthel (IDS Mannheim) and Azzurra Ruggeri (Technical University of Munich). We also continue to grow, with new PhD student Eli Hedman joining during 2024, funded by the VR project grant on “The Impact of Parkinson’s Disease on Everyday Conversation”, with several masters students also participating as research assistants.

Work continues on existing grants acquired by and involving group members. Vlad Maraev’s international VR postdoc SocLaVA : Social Laughter for Virtual Agents,¹ Christine Howes’ work on mismatches in dialogue² with Vlad Maraev, Eleni Gregoromichelaki, Ellen Breitholtz, Amy Han Qiu, Erik Lagerstedt, Fahima Ayub Khan, Vanessa Vanzan and Talha Bedir among others. Work has also started on Christine Howes’ VR project grant on “The Impact of Parkinson’s Disease on Everyday Conversation”. Two projects are winding up, Staffan Larsson, Jenny Myrendal and Bill Noble’s VR project on Word Meaning Negotiation,³ and Asad Sayeed, Ellen Breitholtz and Robin Cooper’s work in the GRIPES project;⁴

As usual, the group are active in seeking new sources of funding with both post docs and established researchers putting together several applications for Riksbankens Jubileumsfond and Vetenskapsrådet and a larger application titled “Responsive AI in Society, Communication and Language” led by Christine Howes and Asad Sayeed to the Knut and Alice Wallenberg foundation’s call for projects of high scientific potential, which successfully went through the Vice Chancellor’s prioritisation process. Members of the group are also part of an application for a VR

¹<https://www.fmsh.fr/en/researchers/vladislav-maraev>

²<https://www.christinehowes.com/divcon>

³Including a public facing blog at <https://njus.blogg.gu.se/>

⁴<https://www.gu.se/en/research/gripes-göteborg-research-initiative-for-politically-emergent-systems>

Excellence cluster for groundbreaking technologies on “Frontiers in AI Reasoning and Applications”, for which a networking grant was obtained in order to facilitate the coordination of the application.

Machine Learning, Cognitive Modeling, and Natural Language Processing Group

2025 was a transitional year for the Machine Learning, Cognitive Modeling, and Natural Language Processing (MLCMNLP) group. It was the last year of the GRIPES project on political dogwhistles, and therefore a year of focus on publishing remaining results; there are still more on the way in 2026 even though the project is now officially over. A follow-up study on political dogwhistles in Swedish politics was published in a major political communications journal, giving a longitudinal aspect to a study conducted close to the beginning of GRIPES. GRIPES also published a computational model of dogwhistle "flow" between online communities in the Workshop on Online Abuse and Harms (WOAH) at ACL.

Asad Sayeed and Sharid Loáiciga published two papers at the BabyLM workshop at EMNLP in Suzhou. One of them continued our exploration of the Active Curriculum Language Modeling (ACLM) approach to human acquisition-inspired small model training, this time outperforming many other contributions to the BabyLM challenge. The other focused on a replication of a high-performing model from another research group in a previous year with our exploratory hyperparameter search. These were published with the coauthorship of Eleni Fysikoudi, a thesis student in the Master of Language Technology program, highlighting the deep engagement of CLASP with the educational program at FLoV.

David Pagmar ended his postdoctoral stint with CLASP in October but not before he and Asad initiated a collaboration with the Stockholm University Brain Imaging Centre (SUBIC) in understanding the neurocognitive roots of linguistic ambiguity. They conducted a functional MRI experiment involving scope vs. lexical ambiguities and are in the process of analyzing the data. They also published abstracts in the AMLaP conference on a similar behavioural online experiment conducted in 2024 as well as the results of work with Yuval Marton at the University of Washington on animacy cues for child language. David obtained an associate professorship at Stockholm University but continues to collaborate.

Nikolai Ilinykh, Asad Sayeed, Sharid Loáiciga, Hyewon Jang, and Shalom Lappin continued to work on discourse factors in LLM-generated narrative coherence, publishing a series of measures at the GEM2 ACL workshop in Vienna. A much more comprehensive analysis of the difference between humans and widely available LLMs is in preparation.

Type Theory and Logic Group

The Type Theory and Logic group, led by Rasmus Blanck, continues to operate as a loosely-knit group with common interests, and its main activities during 2025 includes sustaining and initiating research collaborations, along with a number of publications in conferences and journals as seen in the publications list.

Rasmus Blanck and Bill Noble’s collaboration on Natural Language Inference resulted in two publications during 2025: one at COLM (with Stergios Chatzikyriakidis, University of Crete) and one at NALOMA (with Gijs Wijnholds, Leiden University), with two more papers in the pipeline. Bill’s tenure with the group ended by the end of 2025, as he left for the MIT Media Lab for a postdoctoral fellowship funded by WASP-HS. His collaboration with CLASP members is ongoing.

A focus area of the group is TTR, both as an object of foundational studies, as well as a tool used

for applications, resulting in a number of publications during the year. Group members in this area are also actively involved in other externally funded projects. Robin Cooper, Staffan Larsson and Bill Noble received funding from the Swedish Research Council for the project Semantic Pointers in Natural Language Semantics, aiming to relate TTR to the Semantic Pointer Architecture of Chris Eliasmith (University of Waterloo). Rasmus Blanck, Robin Cooper and Zach McKenzie (University of Chester) continued work on their project on the foundations of TTR and probabilistic semantics, funded by the Swedish Research Council.

Robin Cooper and CLASP alumnus Stergios Chatzikyriakidis co-authored the book *Types and the Structure of Meaning* (Cambridge Elements) together with Eleni Gregoromichelaki and Peter Sutton (University of Potsdam).

Cognitive Systems

Over the past year, the research group led by Dobnik continued its work on multimodal language processing, cognitive systems, semantics, dialogue, robotics, and human-centred AI. The group expanded its research output, strengthened international collaborations, and contributed actively to workshops, seminars, and community initiatives.

The group maintained a regular programme of research seminars and invited talks. Highlights included presentations by Nikhil Krishnaswamy (AI–human collaboration), Amelie Robrecht (adaptive explanations in human–agent interaction), Casey Kennington (emotion and language), and Jacob Suchard (LLM-based pseudonymisation of legal texts).

The group was active in workshop organisation and research community service. Activities include organisation and participation in the EUTOPIA Human-Centred AI workshop⁵⁶, submission of two LREC 2026 workshop proposals (CALD-PSEUDO and RESOURCEFUL), involvement in the organising committee of the RESOURCEFUL workshop at NODALIDA 2025⁷⁸, and successfully applying to the faculty funds to start a faculty-wide seminar series on AI for Humanities. Additionally, a proposal for a NEALT Special Interest Group (SIG) on RESOURCEFUL was submitted and accepted⁹.

The group strengthened collaborations within the EUTOPIA European University Alliance and applied for GU EUTOPIA seed funding to support cross-university cooperation. It also continued participation in the Mormor Karl Research Environment on data privacy and pseudonymisation and the VR-funded project Beyond Pixels and Words on multimodal spatial language.

Teaching in the MLT and student involvement remain central to the group’s mission. The past year included the supervision of master’s theses on topics such as application of language models and visual representation in the medical domain by Lukas Abulszies. The group also contributed to courses such as LT2213 Computational Semantics and the LT2318 AI Cognitive Systems (AICS).

Overall, the year was marked by strong research output, international collaboration, and active community engagement in multimodal and human-centred AI research.

⁵<https://sites.google.com/view/eutopia-human-centred-ai/programme>

⁶<https://eutopia-university.eu/english-version/integrated-connected-communities/grounding-human-centred-ai-on-embodied-multimodal-interaction-2>

⁷<https://resourceful-workshop.github.io/resourceful-2025/>

⁸<https://legal2026.mobileds.de>

⁹<https://nealt-org.github.io/sigs/>

4 Scientific Activities (Conferences, Workshops, Seminars and Speakers)

Annual Conference

The 2024 annual conference was a two-day event held on September 8-9 under the title Language Models and Representations (LARP). As in previous years, the conference aimed to engage with current topics in the international computational linguistics community. The 2025 edition focused on the growing discussion around hybrid architectures that combine symbolic systems with large language models and deep neural networks more broadly.

The event was sponsored by SIGSEM, and the proceedings were published in the ACL Anthology (<https://aclanthology.org/2025.clasp-main.0/>). The conference was organized by postdoctoral researchers Nikolai Ilinykh, Mattias Appelgren, and Erik Lagerstedt. In total, there were 56 in person participants and 20 online ones. The program included 7 presentations, one panel and three plenary keynote talks as follows:

- Vaishak Belle, Chancellor’s Fellow and Reader at the School of Informatics, University of Edinburgh
TITLE: *Reasoning with Large & Small Models: Bridging Symbolic and Neural Approaches*
ABSTRACT: This talk explores the intersection of large language models (LLMs) and reasoning systems, with a focus on addressing fundamental challenges in developing correct and reliable systems. We’ll examine our work on augmenting LLMs with external “symbolic executors”, creating hybrid architectures that leverage the strengths of both paradigms. The presentation will then talk about how LLMs represent and manipulate beliefs - standing for interactions with human or artificial users. We’ll also discuss a few considerations for agentic pipelines, and how these sit with the broader paradigm of agent modelling, which has a long history in AI. We’ll preface this development by first briefly reviewing the paradigm of neuro-symbolic AI, and emergent ideas such as loss functions and neural program induction.
- Moa Johansson, Associate Professor in the Data Science and AI division at Chalmers University of Technology
TITLE: *PACE: Procedural Abstractions for Communicating Efficiently*
ABSTRACT: A central but unresolved aspect of problem-solving in AI is the capability to introduce and use abstractions, something humans excel at. Work in cognitive science has demonstrated that humans tend towards higher levels of abstraction when engaged in collaborative task-oriented communication, enabling gradually shorter and more information-efficient utterances. In this talk, I will describe a neuro-symbolic method for introducing such abstractions called PACE. On the symbolic side, we draw on work from library learning in program synthesis for proposing abstractions. We combine this with neural methods for communication and reinforcement learning, via a novel use of bandit algorithms for controlling the exploration and exploitation trade-off in introducing new abstractions.
- Dan Roth, Eduardo D. Glandt Distinguished Professor at the Department of Computer and Information Science, University of Pennsylvania and Chief AI Scientist at Oracle
TITLE: *On Retrieving & Reasoning LLMs: Myths, Merits, and How to Move Forward*
ABSTRACT: The rapid progress made over the last few years in generating linguistically coherent natural language has blurred, in the mind of many, the difference between natural language generation, understanding, knowledge retrieval and use, and the ability to reason with respect to the world. Nevertheless, reliably and consistently supporting high-level decisions that depend on natural language understanding and heterogenous information retrieval is still difficult, mostly, but not only, since most of these tasks are computationally more

complex than language models can support. I will discuss some of the challenges underlying reasoning and information access and argue that we should exploit what LLMs do well while delegating responsibility to special purpose models and solvers for decision making. I will present some of our work in this space, focusing on supporting reasoning and information access via Neuro-symbolic methods.

Research Seminar

As in prior years, we continue to organize a weekly research seminar in a hybrid format. Whenever possible, we encourage invited speakers to visit CLASP in person, while always offering the possibility to present remotely as a convenient alternative.

We aim to host guest speakers from a broad range of national and international institutions whose research aligns with CLASP's various focus areas. The seminar also serves as a platform for CLASP researchers to share work in progress and provides PhD students with valuable opportunities to receive constructive feedback.

The guests during 2025 include:

- Diego Frassinelli, LMU
Beyond Words: The Multimodal Nature of Concrete and Abstract Concepts on February 12
- Sebastian Padó, University of Stuttgart
Experiments with category representations on February 26
- Shalom Lappin, Queen Mary University of London, University of Gothenburg & King's College London
Neuro-Symbolic Models in NLP on February 27
- Jordan Boyd-Graber Ying, University of Maryland
AIs Playing Games with Language: Balancing Uncertainty, Truth, and Usefulness in Large Language Models on March 19
- Sandro Pezzelle, University of Amsterdam
Not (yet) the whole story: The need for human-like evaluation of visual LLMs in multimodal communicative tasks on March 26
- Elisa Kreiss, UCLA
Towards Pragmatic Visual Description Generation on April 2
- Alexander Koller, Saarland University
Solving complex problems with large language models on April 30
- Vidya Somashekarappa, University of Gothenburg
From CT to CNN's: Deep Learning for Neuroimaging-Based Diagnosis of Alzheimer's and Dementia on May 7
- Hyewon Jang, University of Konstanz
Challenges in sarcasm handling by language models (and humans) on May 21
- Jessy Li, University of Texas at Austin
Discourse models with language models on June 4
- Amandine Decker, Université de Lorraine
Rethinking Conversation: Complexity and Evaluation in the Shifting Landscape of Dialogue Research on June 11

- Mathias Barthel, IDS Mannheim
Processing Language in Dialogue: From Lab Studies to Natural Conversation on June 18
- Nikhil Krishnaswamy, Colorado State University
Faster Isn't Always Better: Building Reliable and Accountable AI Collaborators in the Age of LLMs on June 25
- Rolando Coto Solano, Dartmouth College
Can LLMs process Indigenous Languages? An Exploration of AI for language documentation with Bribri and Cook Islands Māori on September 23
- Alafate Abulimiti, Sorbonne Université (ISIR/UPMC)
The Social Layer of Dialogue: Signals, Strategies, and Systems on October 1
- Emmanuelle Dietz, Airbus Central R&T
A Computational Approach to Cognitive Principles: Two Use Cases on October 15
- Ilaria Torre, Chalmers University of Technology
The sound of trust in Human-Robot Interaction on October 29
- Ece Takmaz, Utrecht University
Scene Context, Object Reference, and Image Memorability: Insights into Visuo-Linguistic Processing in Humans and Models on November 19
- Julia Mendelsohn, University of Maryland
Detecting Implicitly Harmful Language in Political Discourse on November 26
- Peter Sutton, Potsdam University
Informational nouns: Nominal complementiser clauses and polysemy on December 2
- Annemarie Friedrich, University of Augsburg
Neurosymbolic Models of Uncertainty and Logical Reasoning on December 3
- Azzurra Ruggeri, Technical University of Munich
Ecological Active Learning Across Development: Trajectories, Mechanisms and Opportunities for Intervention on December 9

Grants

Additional external funding include:

Obtained during 2025

- Robin Cooper (PI) Semantic Pointers In Natural Language Semantics (SPINLS). Vetenskapsrådet, 2025-04592 (with Larsson and Noble).
- Sharid Loáiciga, AI-Mediated Learning and Learning to Use AI in Academia, WASP-HS Project initiation funding, 2025-902 (with Howes, Sayeed and colleagues in Chalmers and Linköping)

Ongoing projects

- Christine Howes (PI) The impact of Parkinson’s disease on everyday conversation. Vetenskapsrådet 2024-00869 (with colleagues at the Institute of Neuroscience and Physiology, GU and Speech and Language Pathologists at Angered’s Närsjukhus)
- Rasmus Blanck (PI) Types, Sets and Probabilistic Semantics. Vetenskapsrådet 2023-00868 (with Cooper and colleagues at the University of Chester, UK)
- Simon Dobnik (PI) Beyond pixels and words: computational generation and understanding of spatial language in action. Vetenskapsrådet 2023-01552
- Simon Dobnik (co-I) Grandma Karl is 27 years old: Automatic pseudonymisation of research data. Vetenskapsrådet 2022-02311 (Vetenskapsrådet VR 2022-02311 with the Department of Swedish, multilingualism, language technology (GU), University of Helsinki, and Lund University)
- Christine Howes (PI) Divergence and convergence in dialogue: The dynamic management of mismatches. ERC StG-101077927
- Staffan Larsson (PI) Not Just Semantics: Word Meaning Negotiation in Social Media and Spoken Interaction. Vetenskapsrådet, 2022-02125 (with Noble and colleagues from the Department of Education, Communication and Learning, GU)
- Vladislav Maraev (International Post doc) SocLaVA: Social laughter for virtual agents. Vetenskapsrådet 2023-00358 (international partner Sorbonne University, Paris)
- Asad Sayeed (PI) Gothenburg Research Initiative for Politically Emergent Systems (GRIPES) Marianne och Marcus Wallenberg; MMW 2019-0214 (with Breitholtz, Cooper and the Department of Journalism, Media and Communication, GU)

Completed projects

- Ellen Breitholtz (PI) Dialogical Reasoning in Patients with Schizophrenia. Riksbankens jubileumsfond P16-0805:1 (with Howes and Cooper)
- Christine Howes (PI) Incremental Reasoning in Dialogue. Vetenskapsrådet, 2016-01162 (with Breitholtz and Cooper and colleagues in Belfast)

5 PhD Program in Computational Linguistics

We currently have two PhD students who are expected to complete their degrees in 2026. One is fully funded by CLASP and based in Gothenburg, while the other is enrolled in a double-degree programme in collaboration with the University of Lorraine.

Although there will no longer be any PhD students directly employed by CLASP (with co-funding from the department), the PhD programme remains active. Doctoral students funded through other projects within the department continue to participate in and contribute to the programme’s activities.

6 Budget

In 2023, we implemented several measures to reduce the accumulated budget surplus. These included providing funding for extended research visits, supporting conference travel irrespective of paper acceptance, and offering financial support to Master’s students who co-authored publications with CLASP members.

During the past year, additional expenditures were incurred through the extra funding allocated to the fMRI experiments led by Asad Sayeed and the recruitment of a final postdoctoral researcher. As a result of these investments, we are confident that the remaining funds will be fully utilized within the project period.

As detailed in the attached Excel sheet, our current annual running costs amount to approximately 15 million SEK. With roughly 20 million SEK remaining (including co-funding) and one and a half years left in the funding period, projected expenditures indicate that the allocated budget will be fully spent by the end of the grant period.

7 Plans for 2026

In 2026, we will continue our ongoing efforts to publish high-quality research and to secure external funding in order to sustain and further develop our research activities.

As part of our regular activities, CLASP has organized an annual conference throughout the project period. In 2026, we will hold the final edition of this conference, marking the conclusion of this series. Unlike previous years, there will be no open call for external submissions. Instead, the program will consist exclusively of papers authored by past and present CLASP members.

Further information about the event is available at:

<https://gu-clasp.github.io/concluding-conference/>

We received 15 submissions of titles and abstracts, which are now being developed into full papers for presentation at the conference. Although the research content will be internal in scope, we aim to welcome external participants, including Master's students from the MLT program, colleagues at Chalmers, external co-authors, affiliated researchers, and other interested participants.

Following the conference, the presented papers will be collected into an edited volume. The organizers have already initiated discussions with the Northern European Journal of Language Technology (NEALT) regarding this publication.

A Publications, Talks and Other Outputs

Publication Category:

Books	2
Refereed Journal Papers	7
Refereed Papers in Proceedings	33
Edited Collection or Proceedings	5
Talks	3
Conference Presentations, Non-archival Contributions and Others	11
Total Outputs	61

o Mattias Appelgren

Edited Proceedings

Ilinykh, N., Appelgren, M., & Lagerstedt, E. (Eds.). (2025, September). *Proceedings of the 2025 CLASP Conference on Language models And RePresentations (LARP)*. Association for Computational Linguistics. <https://aclanthology.org/2025.clasp-main.0/>

Refereed Papers in Proceedings

Alfter, D., & Appelgren, M. (2025). GRASP at CoMeDi shared task: Multi-strategy modeling of annotator behavior in multi-lingual semantic judgments. *Proceedings of Context and Meaning: Navigating Disagreements in NLP Annotation*, 78–89.

Conference Presentations, Non-archival Contributions and Others

Appelgren, M., Breitholtz, E., Cooper, R., & Dobnik, S. (2025). Communication at an Angle. In N. Ilinykh, A. Robrecht, S. Kopp, & H. Buschmeier (Eds.), *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*. SemDial.

Appelgren, M., Lagerstedt, E., Howes, C., & Sayeed, A. (2025). Across the board: Human-human game learning dialogues. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue - Poster Abstract*. https://www.christinehowes.com/papers/Appelgren.etal_SemDial2025.pdf

Other Activities

- Organiser for the CLASP conference.
- Reviewer for INRIA Sémagramme 2025 SIR01

o Alex Berman

Refereed Papers in Proceedings

Berman, A., Gregoromichelaki, E., & Parai, C. (2025). From interpretability to clinically relevant linguistic explanations: The case of spinal surgery decision-support. *Proceedings of the 17th International Conference on Agents and Artificial Intelligence—Volume 1: IAI*, 909–920. <https://doi.org/10.5220/0013403800003890>

Berman, A., Howes, C., Breitholtz, E., & Larsson, S. (2025). If you have a change in your birthdate: Assessing counterfactual dialogue capabilities of large language models. *Proceedings of Human and Artificial Rationalities. Advances in Cognition, Computation, and Consciousness: Fourth International Conference, HAR 2025, Paris, France, September 16–19*.

Berman, A., & Larsson, S. (2025). Assessing conversational capabilities of explanatory AI interfaces. In H. Degen & S. Ntoa (Eds.), *Artificial intelligence in HCI* (pp. 3–21). Springer Nature Switzerland.

Maraev, V., Berman, A., & Larsson, S. (2025). Combining information state update, Harel state-charts and LLMs for controllable and flexible conversational AI. In N. Ilinykh, M. Appeltgren, & E. Lagerstedt (Eds.), *Proceedings of the 2025 CLASP Conference on Language models And RePresentations (LARP)* (pp. 28–37). Association for Computational Linguistics. <https://aclanthology.org/2025.clasp-main.3/>

Other Activities

- Reviewer for Technology in Society, Information Systems Frontiers, Scandinavian Journal of Public Administration, SemDial 2025, SIGDIAL 2025

○ **Rasmus Blanck**

Refereed Papers in Proceedings

Blanck, R., Noble, B., & Chatzikyriakidis, S. (2025). Reverse-engineering NLI: A study of the meta-inferential properties of Natural Language Inference. *Second Conference on Language Modeling*. <https://arxiv.org/abs/2601.05170>

Noble, B., Blanck, R., & Wijnholds, G. (2025, August). In the Mood for Inference: Logic-Based Natural Language Inference with Large Language Models. In L. Abzianidze & V. de Paiva (Eds.), *Proceedings of the 5th Workshop on Natural Logic Meets Machine Learning (NALOMA)* (pp. 33–47). Association for Computational Linguistics. <https://aclanthology.org/2025.naloma-1.4/>

Other Activities

- Reviewer for MathSciNet/Mathematical Reviews.
- Parental leave April–November.

○ **Ellen Breitholtz**

Refereed Journal Papers

Howes, C., Breitholtz, E., & Maraev, V. (2025). “We could shoot him...” Interpretations of offensive humour. *Pragmatics & Cognition*, 32(1), 208–232. <https://doi.org/https://doi.org/10.1075/pc.24028.how>

Rönnerstrand, B., Boholm, M., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Sayeed, A. B. (2025). Political dogwhistles and semantic change in Swedish politics. *Information, Communication and Society*.

Sayeed, A., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Rönnerstrand, B. (2025). The utility of (political) dogwhistles – a life cycle perspective. *Journal of Language and Politics*.

Refereed Papers in Proceedings

Berman, A., Howes, C., Breitholtz, E., & Larsson, S. (2025). If you have a change in your birthdate: Assessing counterfactual dialogue capabilities of large language models. *Proceedings of Human and Artificial Rationalities. Advances in Cognition, Computation, and Consciousness: Fourth International Conference, HAR 2025, Paris, France, September 16–19*.

- Boholm, M., Rettenegger, G., Breitholtz, E., Cooper, R., Lindgren, E., Rönnerstrand, B., & Sayeed, A. B. (2025). Who leads? Who follows? Temporal dynamics of political dogwhistles in Swedish online communities. *Proceedings of the 9th Workshop on Online Abuse and Harms (WOAH)*, 383–395. <https://aclanthology.org/2025.woah-1.34/>
- Lagerstedt, E., Howes, C., Pagmar, D., Breitholtz, E., & Prendergast, C. (2025). Use your mouth! How we respond to how and why questions - a comparative study. *Human and Artificial Rationalities (HAR), Lecture Notes in Computer Science*. https://www.christinehowes.com/papers/Lagerstedt.etal_HAR_2025.pdf

Conference Presentations, Non-archival Contributions and Others

- Appelgren, M., Breitholtz, E., Cooper, R., & Dobnik, S. (2025). Communication at an Angle. In N. Ilinykh, A. Robrecht, S. Kopp, & H. Buschmeier (Eds.), *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*. SemDial.
- Breitholtz, E. (2025). The persuasive lexicon: Linking word meaning to argumentation. *Proceedings of the SKY Symposium 2025*.
- Noble, B., Maraev, V., Breitholtz, E., & Howes, C. (2025). A linear logic account of social meaning as enthymematic inference. *Proceedings of the SKY Symposium 2025*.

○ **Robin Cooper**

Books

- Chatzikyriakidis, S., Cooper, R., Gregoromichelaki, E., & Sutton, P. (2025). *Types and the Structure of Meaning: Issues in Computational and Lexical Semantics*. Cambridge University Press.

Refereed Journal Papers

- Cooper, R., & Larsson, S. (2025). Dynamic Syntax in a Theory of Types with Records. *Languages*, 10(12). <https://doi.org/10.3390/languages10120300>
- Rönnerstrand, B., Boholm, M., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Sayeed, A. B. (2025). Political dogwhistles and semantic change in Swedish politics. *Information, Communication and Society*.
- Sayeed, A., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Rönnerstrand, B. (2025). The utility of (political) dogwhistles – a life cycle perspective. *Journal of Language and Politics*.

Refereed Papers in Proceedings

- Boholm, M., Rettenegger, G., Breitholtz, E., Cooper, R., Lindgren, E., Rönnerstrand, B., & Sayeed, A. B. (2025). Who leads? Who follows? Temporal dynamics of political dogwhistles in Swedish online communities. *Proceedings of the 9th Workshop on Online Abuse and Harms (WOAH)*, 383–395. <https://aclanthology.org/2025.woah-1.34/>
- Larsson, S., Ginzburg, J., Cooper, R., & Lücking, A. (2025). Finding Answers to Questions: Bridging between Type-based and Computational Neuroscience Approaches. *16th International Conference on Computational Semantics*, 118–126.

Conference Presentations, Non-archival Contributions and Others

- Appelgren, M., Breitholtz, E., Cooper, R., & Dobnik, S. (2025). Communication at an Angle. In N. Ilinykh, A. Robrecht, S. Kopp, & H. Buschmeier (Eds.), *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*. SemDial.
- Cooper, R. (2025). Variation in Natural Reasoning. In A.-L. Kalouli, T. Holloway King, S. Pulman, & A. Zaenen (Eds.), *Semantics at the Crossroads: From Theoretical Explorations to Implementations*. Konstanz: PubliKon. <https://www.kim.uni-konstanz.de/publikon/>

Other Activities

Received funding from Vetenskapsrådet (Swedish Research Council) together with Staffan Larsson and Bill Noble for grant beginning 2026: Semantic Pointers for Natural Language Semantics (SPiNLS), <https://sites.google.com/view/spinls>

o Amandine Decker

Conference Presentations, Non-archival Contributions, and Others

- Decker, A., & Amblard, M. (2025, June). L'essentiel est invisible pour les représentations sémantiques. In F. Bechet, A.-G. Chifu, K. Pinel-sauvagnat, B. Favre, E. Maes, & D. Nurbakova (Eds.), *Actes de l'atelier avancement de l'amr et de l'analyse sémantique 2025 (4as)* (pp. 1–8). ATALA & ARIA. <https://aclanthology.org/2025.jeptalnrecital-4as.1/>
- Decker, A., Amblard, M., & Breitholtz, E. (2025). Mapping the landscape of dialogue research: A meta-analysis of acl anthology 2024. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*, 255–257. http://semdial.org/anthology/Z25-Decker_semdial_4435.pdf

Other Activities

- Reviewer for SemDial 25
- Sub-reviewer for ECAI 2025

o Simon Dobnik

Refereed Papers in Proceedings

- Ilinykh, N., & Dobnik, S. (2025, October). Surprisal reveals diversity gaps in image captioning and different scorers change the story. In L. Flek, S. Narayan, L. H. Phương, & J. Pei (Eds.), *Proceedings of the 18th International Natural Language Generation Conference* (pp. 366–375). Association for Computational Linguistics. <https://aclanthology.org/2025.inlg-main.22/>
- Künkele, D., & Dobnik, S. (2025, September). Learning to refer: How scene complexity affects emergent communication in neural agents. In K. Evang, L. Kallmeyer, & S. Pogodalla (Eds.), *Proceedings of the 16th international conference on computational semantics (IWCS-2025)* (pp. 299–307). Association for Computational Linguistics. <https://gup.ub.gu.se/publication/358249>
- Szawerna, M. I., Dobnik, S., Muñoz Sánchez, R., & Volodina, E. (2025, March). The devil's in the details: The detailedness of classes influences personal information detection and labeling. In R. Johansson & S. Stymne (Eds.), *Proceedings of the Joint 25th Nordic Conference on Computational Linguistics and 11th Baltic Conference on Human Language Technologies (NoDaLiDa/Baltic-HLT 2025)* (pp. 697–708). University of Tartu Library. <https://aclanthology.org/2025.nodalida-1.70/>

Volodina, E., Dobnik, S., Lindström Tiedemann, T., Muñoz Sánchez, R., Szawerna, M. I., Södergård, L., & Vu, X.-S. (2025, December). Towards shared standards for pseudonymization of research data. In H. Verhagen, S. Tienken, A. Widholm, M. Fridlund, M. Nermo, & A. Blåder (Eds.), *Proceedings of HiC 2025: Huminfra conference* (pp. 101–114). https://www.huminfra.se/resources/humevents/hic-2025_proceedings.pdf

Talks

Dobnik, S. (2025a, June). *Beyond pixels and words (Sheffield)* (Keynote at UKRI CDT in Speech and Language Technologies and their Applications, Annual Conference 2025). CLASP and FLoV, University of Gothenburg. Sheffield. <https://slt-cdt.sheffield.ac.uk/annual-conference>

Dobnik, S. (2025b, December). *Beyond pixels and words (Bielefeld)* (Invited talk at TRR 318 at the Constructing Explainability Research Colloquium, Center for Cognitive Interaction Technology (CITEC), Faculty of Technology, Bielefeld University). CLASP and FLoV, University of Gothenburg. Bielefeld, Germany. <https://www.uni-bielefeld.de/zwe/citec/>

Conference Presentations, Non-archival Contributions and Others

Appelgren, M., Breitholtz, E., Cooper, R., & Dobnik, S. (2025). Communication at an Angle. In N. Ilinykh, A. Robrecht, S. Kopp, & H. Buschmeier (Eds.), *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*. SemDial.

Künkele, D., & Dobnik, S. (2025, March). Learning to refer: How scene complexity affects emergent communication in neural agents. In N. Ilinykh, A. Robrecht, S. Kopp, & H. Buschmeier (Eds.), *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts* (pp. 264–266). SEMDIAL. <https://gup.ub.gu.se/publication/358250>

Lindström Tiedemann, T., Södergård, L., Volodina, E., Dobnik, S., Szawerna, M., Muñoz Sánchez, R., & Vu, X.-S. (2025). Om mormor karl sägs vara 27 år gammal, vad säger det om skribenten? en presentation om att identifiera och ersätta identifierande element i språkvetenskapliga forskningsdata. *Abstractsamling Svenskans beskrivning 40 (Svebe40), Workshop om Pseudonymisering inom språkvetenskap*, 21. <https://gup.ub.gu.se/publication/358255>

Other Activities

- Organising the Cognitive Systems Research group in CLASP
- Reviewed for ACL, INLG, NeurIPS SpAVLE workshop, Semdial, a book review for Synthesis Lectures on Human Language Technologies.
- Reviewing assignments: (i) ERC advanced grant, (ii) SMASH postdoctoral programme (Marie Skłodowska-Curie COFUND Actions (MSCA COFUND), University of Nova Gorica and University of Ljubljana, Slovenia), (ii) Estonian Research Council (ETAG), (iii) promotions to professor (Oslo University) and docent (Uppsala University).
- PhD committee member / examiner: Javier Chiyah Garcia (Heriot-Watt University, Edinburgh, UK), Emil Häglund (Umeå University), Lovisa Hagström (Chalmers University), Anna Lindahl (reserve), and Amelie Robrecht (University of Bielefeld).
- Member of the organising committee of the 3rd RESOURCEFUL workshop, Resources and representations for under-resourced languages and domains at NoDaLida / Baltic HLT 2025, Tallinn, Estonia and co-chair of the SIG-RESOURCEFUL: Special Interest Group on Resources and Representations for Under-Resourced Languages and Domains within NEALT.

Co-organiser of the forthcoming LEGAL 2026 / Cald-PSEUDO 2026, and RESOURCEFUL workshops at LREC, Palma de Mallorca, Spain.

- Presented a talk at Gothenborg Robotics Networking Workshop on 16 October and the CLT Workshop on 22 October.
- Seed funding: (i) EUTOPIA Connected communities (GU and European-external, with Eleni Gregoromichelaki), (ii) faculty seminar AI for Humanities and Humanities for AI, (iii) Co-organiser of EUTOPIA Human-centred AI, linguistics research, and psycholinguistic methodologies, 8–10 December, GU.

○ Christine Howes

Refereed Journal Papers

Howes, C., Breitholtz, E., & Maraev, V. (2025). “We could shoot him...” Interpretations of offensive humour. *Pragmatics & Cognition*, 32(1), 208–232. <https://doi.org/https://doi.org/10.1075/pc.24028.how>

Refereed Papers in Proceedings

Berman, A., Howes, C., Breitholtz, E., & Larsson, S. (2025). If you have a change in your birthdate: Assessing counterfactual dialogue capabilities of large language models. *Proceedings of Human and Artificial Rationalities. Advances in Cognition, Computation, and Consciousness: Fourth International Conference, HAR 2025, Paris, France, September 16–19*.

Giannitzi, E., Maraev, V., Lagerstedt, E., & Howes, C. (2025). Laughter in sight: How gaze and laughter affect perceptions of a social robot. In M. Kurosu & A. Hashizume (Eds.), *Human-computer interaction* (pp. 249–268). Springer Nature Switzerland.

Lagerstedt, E., Howes, C., Pagmar, D., Breitholtz, E., & Prendergast, C. (2025). Use your mouth! How we respond to how and why questions - a comparative study. *Human and Artificial Rationalities (HAR), Lecture Notes in Computer Science*. https://www.christinehowes.com/papers/Lagerstedt.etal_HAR_2025.pdf

Conference Presentations, Non-archival Contributions, and Others

Appelgren, M., Lagerstedt, E., Howes, C., & Sayeed, A. (2025). Across the board: Human-human game learning dialogues. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue - Poster Abstract*. https://www.christinehowes.com/papers/Appelgren.etal_SemDial2025.pdf

Ayub Khan, F., Noble, B., & Howes, C. (2025). Switching contexts: Pragmatic effects of code-switching in spanish-english dialogue. *SweCog2025 Conference Abstracts*, 20–21. https://konferens.ht.lu.se/fileadmin/user_upload/konferens/swecog/Book_of_abstracts_Sweccog_Final_Full.pdf

Bedir, T., Kara, B., & Howes, C. (2025). Are you laughing at me? Patterns of laughter while playing a voice activated game in pairs compared to single-player. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue - Poster Abstract*. https://www.christinehowes.com/papers/Bedir.etal_SemDial2025.pdf

Maraev, V., Howes, C., & Pelachaud, C. (2025). Laughter and apologies in aesthetic evaluations. *SweCog 2025 Conference Book of Abstracts*. https://konferens.ht.lu.se/fileadmin/user_upload/konferens/swecog/Book_of_abstracts_Sweccog_Final_Full.pdf

Noble, B., Maraev, V., Breitholtz, E., & Howes, C. (2025). A linear logic account of social meaning as enthymematic inference. *Proceedings of the SKY Symposium 2025*.

- Vanzan, V., Bedir, T., Maraev, V., Lagerstedt, E., Barthel, M., & Howes, C. (2025). ‘Alexa, are you prudish?’ Laughter in German households with smart speakers. *International Society for Humor Studies Conference*. https://www.christinehowes.com/papers/Vanzan.etal_ISHS2025.pdf
- Vanzan, V., Ilinykh, N., Lagerstedt, E., Qiu, A. H., Maraev, V., & Howes, C. (2025). Surprised to kill: Quantifying LLM uncertainty in morally-charged triadic dialogues. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*, 219–221. http://semdial.org/anthology/Z25-Vanzan_semdial_4425.pdf

Talks

- Howes, C. (2025). (Mis)managing the illusion of communication [Invited talk for "Science and Improv", Gothenburg].

○ Nikolai Ilinykh

Refereed Papers in Proceedings

- Ilinykh, N., & Dobnik, S. (2025, October). Surprisal reveals diversity gaps in image captioning and different scorers change the story. In L. Flek, S. Narayan, L. H. Phuong, & J. Pei (Eds.), *Proceedings of the 18th International Natural Language Generation Conference* (pp. 366–375). Association for Computational Linguistics. <https://aclanthology.org/2025.inlg-main.22/>
- Ilinykh, N., Lappin, S., Sayeed, A. B., & Loáiciga, S. (2025, July). Coreference as an indicator of context scope in multimodal narrative. In O. Arviv, M. Clinciu, K. Dhole, R. Dror, S. Gehrmann, E. Habba, I. Itzhak, S. Mille, Y. Perlitiz, E. Santus, J. Sedoc, M. Shmueli Scheuer, G. Stanovsky, & O. Tafjord (Eds.), *Proceedings of the Fourth Workshop on Generation, Evaluation and Metrics (GEM²)* (pp. 789–807). Association for Computational Linguistics. <https://aclanthology.org/2025.gem-1.67/>
- Ilinykh, N., & Szawerna, M. I. (2025, March). “I need more context and an English translation”: Analysing how LLMs identify personal information in Komi, Polish, and English. In Š. A. Holdt, N. Ilinykh, B. Scalvini, M. Bruton, I. N. Debess, & C. M. Tudor (Eds.), *Proceedings of the third workshop on resources and representations for under-resourced languages and domains (resourceful-2025)* (pp. 165–178). University of Tartu Library, Estonia. <https://aclanthology.org/2025.resourceful-1.32/>

Edited Proceedings

- Holdt, Š. A., Ilinykh, N., Scalvini, B., Bruton, M., Debess, I. N., & Tudor, C. M. (Eds.). (2025, March). *Proceedings of the third workshop on resources and representations for under-resourced languages and domains (resourceful-2025)*. University of Tartu Library, Estonia. <https://aclanthology.org/2025.resourceful-1.0/>
- Ilinykh, N., Appelgren, M., & Lagerstedt, E. (Eds.). (2025, September). *Proceedings of the 2025 CLASP Conference on Language models And RePresentations (LARP)*. Association for Computational Linguistics. <https://aclanthology.org/2025.clasp-main.0/>
- Ilinykh, N., Robrecht, A., Kopp, S., & Buschmeier, H. (2025, September). *Proceedings of the 29th workshop on the semantics and pragmatics of dialogue – front matter*. SEMDIAL. http://semdial.org/anthology/semdial2025_bialogue_front_matter.pdf

Conference Presentations, Non-archival Contributions, and Others

Vanzan, V., Ilinykh, N., Lagerstedt, E., Qiu, A. H., Maraev, V., & Howes, C. (2025). Surprised to kill: Quantifying LLM uncertainty in morally-charged triadic dialogues. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*, 219–221. http://semdial.org/anthology/Z25-Vanzan_semdial_4425.pdf

Other Activities

- AC for ARR
- Reviewer for LREC 26, GEM², ARR, SCIA
- Co-organizer of RESOURCEFUL 2025, SemDial 2025, LARP 2025
- Participant in EUtopia: Human-centred AI
- Invited talk at CLAUSE Retreat (Detmold, Germany, 19-21 March, 2025)

○ Hyewon Jang

Refereed Papers in Proceedings

Jang, H., & Frassinelli, D. (2025, September). The difficult case of intended and perceived sarcasm: A challenge for humans and large language models. In K. Evang, L. Kallmeyer, & S. Pogodalla (Eds.), *Proceedings of the 16th International Conference on Computational Semantics* (pp. 269–281). Association for Computational Linguistics. <https://aclanthology.org/2025.iwcs-main.23/>

Leonardelli, E., Casola, S., Peng, S., Rizzi, G., Basile, V., Fersini, E., Frassinelli, D., Jang, H., Pavlovic, M., Plank, B., & Poesio, M. (2025, November). LeWiDi-2025 at NLPerspectives: The third edition of the learning with disagreements shared task. In G. Abercrombie, V. Basile, S. Frenda, S. Tonelli, & S. Dudy (Eds.), *Proceedings of the The 4th Workshop on Perspectivist Approaches to NLP* (pp. 182–195). Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.nlperspectives-1.16>

Conference Presentations, Non-archival Contributions, and Others

Davis, C., & Jang, H. (2026). A theoretical and experimental investigation of the morpho-syntax of an anti-honorific prefix in Korean. In D. V. Olmen, M. Andersson, J. Culpeper, & R. Giomi (Eds.), *The grammar of impoliteness* (pp. 61–94). De Gruyter Mouton. <https://doi.org/doi:10.1515/9783111477084-003>

○ Shalom Lappin

Book

Lappin, S. (2025). *Understanding the Artificial Intelligence Revolution: Between Catastrophe and Utopia*. CRC Press, Taylor & Francis.

Refereed Journal Articles

Lappin, S. (2025a). The deep learning revolution in AI. *European Review*, 1–10.

Lappin, S. (2025b). Neuro-symbolic models in AI. *Journal of Applied Logics*, 12(6), 1631–1642.

Refereed Papers in Proceedings

Ilinykh, N., Lappin, S., Sayeed, A. B., & Loáiciga, S. (2025, July). Coreference as an indicator of context scope in multimodal narrative. In O. Arviv, M. Clinciu, K. Dhole, R. Dror, S. Gehrmann, E. Habba, I. Itzhak, S. Mille, Y. Perlit, E. Santus, J. Sedoc, M. Shmueli Scheuer, G. Stanovsky, & O. Tafjord (Eds.), *Proceedings of the Fourth Workshop on Generation, Evaluation and Metrics (GEM²)* (pp. 789–807). Association for Computational Linguistics. <https://aclanthology.org/2025.gem-1.67/>

Other Activities

- Invited Conference Talk: Chalmers University of Technology, Neuro-Symbolic Models in NLP, February 26, 2025
- Seminar Talk: Queen Mary University of London, Fundamentals of AI and Computational Theory Seminar, Architectures of Neuro-Symbolic Models in AI, November 19, 2025
- Invited Plenary Talk: PACLIC 39, Vietnam Institute of Advanced Studies in Mathematics, Exploring Architectures for Neuro-Symbolic Models in AI, December 7, 2025

○ Staffan Larsson

Refereed Journal Papers

Cooper, R., & Larsson, S. (2025). Dynamic Syntax in a Theory of Types with Records. *Languages*, 10(12). <https://doi.org/10.3390/languages10120300>

Myrendal, J., & Larsson, S. (2025). Semantic conflict in online discussions: Negotiating the meaning of lying. *Journal of Language Aggression and Conflict*. <https://doi.org/https://doi.org/10.1075/jlac.00133.myr>

Refereed Papers in Proceedings

Berman, A., Howes, C., Breitholtz, E., & Larsson, S. (2025). If you have a change in your birthdate: Assessing counterfactual dialogue capabilities of large language models. *Proceedings of Human and Artificial Rationalities. Advances in Cognition, Computation, and Consciousness: Fourth International Conference, HAR 2025, Paris, France, September 16–19*.

Larsson, S., Ginzburg, J., Cooper, R., & Lücking, A. (2025). Finding Answers to Questions: Bridging between Type-based and Computational Neuroscience Approaches. *16th International Conference on Computational Semantics*, 118–126.

Maraev, V., Berman, A., & Larsson, S. (2025). Combining information state update, Harel state-charts and LLMs for controllable and flexible conversational AI. In N. Ilinykh, M. Appergren, & E. Lagerstedt (Eds.), *Proceedings of the 2025 CLASP Conference on Language models And RePresentations (LARP)* (pp. 28–37). Association for Computational Linguistics. <https://aclanthology.org/2025.clasp-main.3/>

Noble, B., Larsson, S., & Myrendal, J. (2025). Misunderstanding the Concrete, Disagreeing About the Abstract: A Closer Look at Word Meaning Negotiation Triggers. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Full Papers*, 81–91. <https://www.semndial.org/anthology/papers/Z/Z25/Z25-3310/>

Other Activities

Received funding from Vetenskapsrådet (Swedish Research Council) together with Robin Cooper (PI) and Bill Noble for grant beginning 2026: Semantic Pointers for Natural Language Semantics (SPiNLS), <https://sites.google.com/view/spinls>

Reviewer for IWSDS, RESOURCEFUL, COLM, SemDial, SigDial, LARP, IWCS, LREC, VR Postdoc (HS).

◦ **Sharid Loáiciga**

Refereed Papers in Proceedings

- Fysikoudi, E., Loáiciga, S., & Sayeed, A. B. (2025, November). Active curriculum language modeling over a hybrid pre-training method. In L. Charpentier, L. Choshen, R. Cotterell, M. O. Gul, M. Y. Hu, J. Liu, J. Jumelet, T. Linzen, A. Mueller, C. Ross, R. S. Shah, A. Warstadt, E. G. Wilcox, & A. Williams (Eds.), *Proceedings of the First BabyLM Workshop* (pp. 488–495). Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.babylm-main.34>
- Ilinykh, N., Lappin, S., Sayeed, A. B., & Loáiciga, S. (2025, July). Coreference as an indicator of context scope in multimodal narrative. In O. Arviv, M. Clinciu, K. Dhole, R. Dror, S. Gehrmann, E. Habba, I. Itzhak, S. Mille, Y. Perlitiz, E. Santus, J. Sedoc, M. Shmueli Scheuer, G. Stanovsky, & O. Tafjord (Eds.), *Proceedings of the Fourth Workshop on Generation, Evaluation and Metrics (GEM²)* (pp. 789–807). Association for Computational Linguistics. <https://aclanthology.org/2025.gem-1.67/>
- Kunilovskaya, M., Loáiciga, S., & Lapshinova-Koltunski, E. (2025, September). Information divergence in translation and interpreting: Findings from same-source texts. In C. Wartena & U. Heid (Eds.), *Proceedings of the 21st Conference on Natural Language Processing (KONVENS 2025): Long and Short Papers* (pp. 192–202). HsH Applied Academics. <https://aclanthology.org/2025.konvens-1.17/>
- Loáiciga, S., Fysikoudi, E., & Sayeed, A. B. (2025, November). Exploring smaller batch sizes for a high-performing BabyLM model architecture. In L. Charpentier, L. Choshen, R. Cotterell, M. O. Gul, M. Y. Hu, J. Liu, J. Jumelet, T. Linzen, A. Mueller, C. Ross, R. S. Shah, A. Warstadt, E. G. Wilcox, & A. Williams (Eds.), *Proceedings of the First BabyLM Workshop* (pp. 155–159). Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.babylm-main.12>

Edited Proceedings

- Strube, M., Braud, C., Hardmeier, C., Li, J. J., Loaiciga, S., Zeldes, A., & Li, C. (Eds.). (2025, November). *Proceedings of the 6th Workshop on Computational Approaches to Discourse, Context and Document-Level Inferences (CODI 2025)*. Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.codi-1.0>

Other Activities

- AC for ARR
- Reviewer for LREC 26, CRAC 25, COLM 25
- Mentor for SRW in ACL 25
- Co-organizer of CODI workshop
- Participant in network meeting *Automating Language Documentation* at Uppsala University

○ **Vladislav Maraev**

Refereed Journal Articles

Howes, C., Breitholtz, E., & Maraev, V. (2025). “We could shoot him...” Interpretations of offensive humour. *Pragmatics & Cognition*, 32(1), 208–232. <https://doi.org/https://doi.org/10.1075/pc.24028.how>

Refereed Papers in Proceeding

Abulimiti, A., & Maraev, V. (2025). Social repair. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Full Papers*, 71–80. http://semdial.org/anthology/Z25-Abulimiti_semdial_3309.pdf

Giannitzi, E., Maraev, V., Lagerstedt, E., & Howes, C. (2025). Laughter in sight: How gaze and laughter affect perceptions of a social robot. In M. Kurosu & A. Hashizume (Eds.), *Human-computer interaction* (pp. 249–268). Springer Nature Switzerland.

Maraev, V., Berman, A., & Larsson, S. (2025). Combining information state update, Harel state-charts and LLMs for controllable and flexible conversational AI. In N. Ilinykh, M. Appeltgren, & E. Lagerstedt (Eds.), *Proceedings of the 2025 CLASP Conference on Language models And RePresentations (LARP)* (pp. 28–37). Association for Computational Linguistics. <https://aclanthology.org/2025.clasp-main.3/>

Conference Presentations, Non-archival Contributions, and Others

Maraev, V., Howes, C., & Pelachaud, C. (2025). Laughter and apologies in aesthetic evaluations. *SweCog 2025 Conference Book of Abstracts*. https://konferens.ht.lu.se/fileadmin/user_upload/konferens/swecog/Book_of_abstracts_Sweccog_Final_Full.pdf

Noble, B., Maraev, V., Breitholtz, E., & Howes, C. (2025). A linear logic account of social meaning as enthymematic inference. *Proceedings of the SKY Symposium 2025*.

Vanzan, V., Bedir, T., Maraev, V., Lagerstedt, E., Barthel, M., & Howes, C. (2025). ‘Alexa, are you prudish?’ Laughter in German households with smart speakers. *International Society for Humor Studies Conference*. https://www.christinehowes.com/papers/Vanzan.etal_ISHS2025.pdf

Vanzan, V., Ilinykh, N., Lagerstedt, E., Qiu, A. H., Maraev, V., & Howes, C. (2025). Surprised to kill: Quantifying LLM uncertainty in morally-charged triadic dialogues. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Poster Abstracts*, 219–221. http://semdial.org/anthology/Z25-Vanzan_semdial_4425.pdf

Other Activities

- Reviewer for IWSDS 2025, Pragmatics & Cognition, Nature Scientific Data, SIGdial 2025, SemDial 2025, IWCS 2025, IWSDS 2026
- Seminar talk: ISIR ACIDE Team, Sorbonne Université, Social functions of laughter in spoken human-machine dialogues, April 1, 2025

○ **Bill Noble**

Refereed Papers in Proceeding

Blanck, R., Noble, B., & Chatzikyriakidis, S. (2025). Reverse-engineering NLI: A study of the meta-inferential properties of Natural Language Inference. *Second Conference on Language Modeling*. <https://arxiv.org/abs/2601.05170>

- Noble, B., Blanck, R., & Wijnholds, G. (2025, August). In the Mood for Inference: Logic-Based Natural Language Inference with Large Language Models. In L. Abzianidze & V. de Paiva (Eds.), *Proceedings of the 5th Workshop on Natural Logic Meets Machine Learning (NALOMA)* (pp. 33–47). Association for Computational Linguistics. <https://aclanthology.org/2025.naloma-1.4/>
- Noble, B., Larsson, S., & Myrendal, J. (2025). Misunderstanding the Concrete, Disagreeing About the Abstract: A Closer Look at Word Meaning Negotiation Triggers. *Proceedings of the 29th Workshop on the Semantics and Pragmatics of Dialogue – Full Papers*, 81–91. <https://www.semndial.org/anthology/papers/Z/Z25/Z25-3310/>

Conference Presentations, Non-archival Contributions, and Others

- Ayub Khan, F., Noble, B., & Howes, C. (2025). Switching contexts: Pragmatic effects of code-switching in spanish-english dialogue. *SweCog2025 Conference Abstracts*, 20–21. https://konferens.ht.lu.se/fileadmin/user_upload/konferens/swecog/Book_of_abstracts_Sweccog_Final_Full.pdf
- Noble, B., Maraev, V., Breitholtz, E., & Howes, C. (2025). A linear logic account of social meaning as enthymematic inference. *Proceedings of the SKY Symposium 2025*.

○ **David Pagmar**

Conference Presentations, Non-archival Contributions, and Others

- Pagmar, D., Marton, Y., & Sayeed, A. (2025). Animacy cues and word order in language acquisition and dialogue corpora. *Architectures and Mechanisms in Language Processing (AMLaP)*.
- Pagmar, D., & Sayeed, A. (2025). Local context in quantifier scope ambiguity resolution in swedish. *Architectures and Mechanisms in Language Processing (AMLaP)*.

○ **Asad Sayeed**

Refereed Journal Articles

- Rönnerstrand, B., Boholm, M., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Sayeed, A. B. (2025). Political dogwhistles and semantic change in Swedish politics. *Information, Communication and Society*.
- Sayeed, A., Breitholtz, E., Cooper, R., Lindgren, E., Rettenegger, G., & Rönnerstrand, B. (2025). The utility of (political) dogwhistles – a life cycle perspective. *Journal of Language and Politics*.

Refereed Papers in Proceedings

- Boholm, M., Rettenegger, G., Breitholtz, E., Cooper, R., Lindgren, E., Rönnerstrand, B., & Sayeed, A. B. (2025). Who leads? Who follows? Temporal dynamics of political dogwhistles in Swedish online communities. *Proceedings of the 9th Workshop on Online Abuse and Harms (WOAH)*, 383–395. <https://aclanthology.org/2025.woah-1.34/>
- Fysikoudi, E., Loáiciga, S., & Sayeed, A. B. (2025, November). Active curriculum language modeling over a hybrid pre-training method. In L. Charpentier, L. Choshen, R. Cotterell, M. O. Gul, M. Y. Hu, J. Liu, J. Jumelet, T. Linzen, A. Mueller, C. Ross, R. S. Shah, A. Warstadt, E. G. Wilcox, & A. Williams (Eds.), *Proceedings of the First BabyLM Workshop* (pp. 488–495). Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.babylm-main.34>

- Ilinykh, N., Lappin, S., Sayeed, A. B., & Loáiciga, S. (2025, July). Coreference as an indicator of context scope in multimodal narrative. In O. Arviv, M. Clinciu, K. Dhole, R. Dror, S. Gehrmann, E. Habba, I. Itzhak, S. Mille, Y. Perlitz, E. Santus, J. Sedoc, M. Shmueli Scheuer, G. Stanovsky, & O. Tafjord (Eds.), *Proceedings of the Fourth Workshop on Generation, Evaluation and Metrics (GEM²)* (pp. 789–807). Association for Computational Linguistics. <https://aclanthology.org/2025.gem-1.67/>
- Loáiciga, S., Fysikoudi, E., & Sayeed, A. B. (2025, November). Exploring smaller batch sizes for a high-performing BabyLM model architecture. In L. Charpentier, L. Choshen, R. Cotterell, M. O. Gul, M. Y. Hu, J. Liu, J. Jumelet, T. Linzen, A. Mueller, C. Ross, R. S. Shah, A. Warstadt, E. G. Wilcox, & A. Williams (Eds.), *Proceedings of the First BabyLM Workshop* (pp. 155–159). Association for Computational Linguistics. <https://doi.org/10.18653/v1/2025.babylm-main.12>

Conference Presentations, Non-archival Contributions, and Others

- Pagmar, D., Marton, Y., & Sayeed, A. (2025). Animacy cues and word order in language acquisition and dialogue corpora. *Architectures and Mechanisms in Language Processing (AMLaP)*.
- Pagmar, D., & Sayeed, A. (2025). Local context in quantifier scope ambiguity resolution in Swedish. *Architectures and Mechanisms in Language Processing (AMLaP)*.
- Rettenegger, G., & Sayeed, A. (2025). Identity performance during crises: A comparative study of two national contexts. *American Political Science Association (APSA) Annual Conference*.

Other Activities

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