

EACL 2026

**The 19th Conference of the European Chapter of the  
Association for Computational Linguistics**

**Proceedings of the Conference, Vol. 2 (Short Papers)**

March 24-29, 2026

The EACL organizers gratefully acknowledge the support from the following sponsors.

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## Message from the General Chair

I'm delighted and honoured to welcome you to the 19th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2026), taking place in the beautiful city of Rabat, in Morocco, in March 24-29, 2026. EACL is the flagship European conference of the Association and EACL 2026 proudly continues our field's tradition of excellence in scholarship, innovation, and inclusivity. I am deeply grateful to the many volunteers whose dedication, generosity, and tireless efforts have made this conference possible.

For the first time EACL is being hosted in the African continent. This is an important milestone for our community, and we are grateful to our Moroccan hosts for enabling this historic moment by bringing this edition of EACL to Rabat. We are also delighted that the Second Arabic NLP School is co-located with EACL. We hope attendees enjoy this wonderful opportunity to strengthen ties with the Computational Linguistics communities across the African continent.

It has been a great honour to serve as General Chair of EACL 2026. I am sincerely grateful to the EACL Board, in particular to **Preslav Nakov** (EACL President) and **Nina Tahmasebi** (EACL Secretary), for inviting me to take on this role. This gave me the privilege of working closely with an outstanding organising committee, combining our diverse areas of expertise, interests, experiences, and values to help shape this edition of the conference.

As our community grows, so too do our conferences, along with the increased responsibilities and challenges of organising and hosting a scientific meeting EACL's standing. Bringing EACL to Morocco, under a particularly compressed timeline, demanded exceptional dedication and sustained effort from the entire organising committee.

This effort began from our Program Committee Chairs, **Vera Demberg**, **Kentaro Inui** and **Lluís Marquez**, whose strong commitment ensured an excellent and diverse programme, even when overseeing the reviewing and selection process of papers under a very challenging timeline. They were joined by the Ethics Chair, **Nedjma Djouhra Ousidhoum**, in collaboration with the ACL Ethics Committee Chairs, the Best Paper Award Chairs, **Yulan He** and **Alessandro Lenci**, with **Bonnie Webber** as the Test of Time Awards Chair.

My thanks to the support of the ACL Rolling Review (ARR) team, led by the ARR Editors-in-Chief overseeing the main reviewing cycle aligned with EACL 2026, **Jing Jiang**, **Xiaojun Wan** and **Michael White**, along with the ARR team members, including **Sonakshi Chauhan**, **Sudipta Kar**, **Holy Lovenia** and **Freda Shi**; and the many Senior Area Chairs, Area Chairs and reviewers who contributed to this effort. I am grateful to the TACL Editors-in-Chief, **Asli Celikyilmaz**, **Roi Reichart**, and **Dilek Hakkani-Tur**, and the CL Editor-in-Chief, **Wei Lu**, for the collaborating to feature papers published in the Transactions of the Association for Computational Linguistics (TACL) and Computational Linguistics (CL) as part of the conference programme. One of the innovations proposed by the EACL 2026 PCs is to have the complete Findings programme as part of the conference. I hope you enjoy the resulting extended programme.

The variety and quality of the EACL program is also thanks to the commitment of the Industry Chairs, **Nikolaos Aletras**, **Gülşen Eryiğit**, and **Yevgen Matusevych**; the Demonstration Chairs, **Danilo Croce**, **Jochen Leidner**, and **Nafise Moosavi**; and the Student Research Workshop (SRW) Chairs, **Selene Baez Santamaría**, **Sai Ashish Somayajula**, and **Atsuki Yamaguchi**, along with the Faculty Advisors, **Tanja Samardzic** and **Marten van Schijndel**. They managed “conferences within the conference,” with increased submission volumes and highly competitive selection processes, curating rich programs that showcase cutting-edge innovation across academia and industry, as well as emerging directions proposed by the next generation of researchers.

EACL 2026 also hosts a diverse set of 18 workshops and 4 tutorials thanks to the efforts of the Workshop Co-Chairs, **Emmanuele Chersoni**, **Julia Ive**, and **Adriana Pagano**, along with the committee led by ACL Workshop Officers **Zeeraq Talat** and **Terra Blevins**, and the Tutorial Chairs, **Chenghua Lin**, **Aline Paes**, and **Rodrigo Wilkens**, in collaboration with the ACL 2026 Tutorial Chairs **Kenton Murray** and **Jacob Andreas**.

My heartfelt appreciation also goes to the Website Chair, **Wei He**, to the Internal Communications Chairs, **Maggie Mi** and **Leonardo Zilio**, and to the Publicity and Social Media Chairs, **Marcely Zanon Boito**, **Nadia Chirkova**, and **Matthew Shardlow**, for providing essential communication channels within the EACL 2026 community.

The Student Volunteer (SV) Chairs, **Ekaterina Kochmar** and **Khalil Mrini**, did an outstanding job in bringing together a dedicated and enthusiastic team of volunteers. Thanks to the SV Chairs and to our Conference Volunteer Team for their hard work in ensuring that the conference runs smoothly and participants feel welcomed and supported throughout the event.

My admiration and gratitude to our Diversity and Inclusion (D&I) Chairs, **Helena Gómez Adorno**, **Hannah M. Claus**, **Diana Galván**, **María Grandury**, **Selene Baez Santamaría**, and **Sabine Weber**, for generously contributing their substantial expertise and strong commitment to making our conferences more inclusive and representative of the rich diversity of our communities. They are responsible for an outstanding schedule of Shared Interest and Affinity Group Events, along with mentoring opportunities that help connect people and foster a welcoming environment for both new and long-standing members of our community.

For EACL 2026, thanks to a close collaboration among the D&I Chairs, the SRW Chairs, the SV Chairs, the Local Organization Chairs, the ACL Event Manager and the ACL Treasurer, we were able to maximise the impact of the financial support generously provided by the ACL community, enabling more researchers to participate both in person and virtually.

Sponsorship is crucial for enabling our conferences to take place, especially in financially challenging times, and for funding the initiatives we wish to support. My immense gratitude goes to the Sponsorship Chairs, **Yassine Benajiba** and **Laurent Besacier** for their efforts in securing the support of our sponsors.

It is thanks to the work of the Publication Chairs, **Firoj Alam** and **Fernando Alva Manchego** that the proceedings reflect the high standards expected by the authors of our European flagship conference, and of the Handbook Chairs, **Prajit Dhar** and **Marco Polignano**, whose careful work ensures that participants can navigate the programme and access all the information needed to make the most of the conference. Our thanks to the Technical Platform Chairs, **Yi R. (May) Fung** and **Rich Gerber**, who were responsible for the installations needed in Open Review and Softconf for all EACL 2026 tracks and events.

EACL 2026 is a hybrid conference, and in this year we have seen an increase in the number of virtual participants. The organisation of the virtual component is thanks to the Virtual Infra-structure Chairs, **Ali Hürriyetöglu**, **Thomas Pickard**, and **César Rennó-Costa**. In collaboration with Underline, their efforts contributed to making the integration of the virtual and the in-person programs more inclusive and engaging.

I cannot thank enough our hosts, represented by the Local Organization and Visa Chairs, **Karim Bouzoubaa**, **Khalid Choukri** and **Si Lhoussain Aouragh** for their collaboration in bringing EACL to Rabat. They were instrumental to the success of the conference, from helping to select the venues and secure accommodation options, to providing support for visa applications.

For EACL 2026 I was joined by an expert team formed by **Jennifer Rachford** (ACL Event Manager)

and **Damira Mršić** (Underline). This edition would not have been possible without the superb and inspiring guidance provided by Jenn, whose in-depth knowledge of our conferences and community enables these events to happen and provides a wise direction in addressing the challenges along the way. I feel very fortunate to have been able to count on Jenn and her team, including **Lina Staggs** (Event Coordinator), **Sally Stevenson** (Onsite Registration), **Paige Bower** (Onsite Registration), **Ashlee Brown** (ACL Admin), **Brandy Dorsey** (Poster Coordinator), along with the Audio Visual Team, including **Jon Dorsey** (AV Director) and **Trevor Laffoon** (AV Technician).

The success of our conferences is in large part also due to the expertise of Damira and the Underline team, including **Jernej Masnec**, **Luka Šimić**, **Mateo Rožić** and **Petra Vižintin**. They not only provided the online platforms needed for our hybrid conference and went above and beyond to accommodate participants' preferences, but also generously contributed their extensive experience to the organisation of the conference. My heartfelt gratitude to all their generous guidance and support.

EACL 2026 also benefited from the support of the ACL Executive Committee, especially **Joel Tetrault** (ACL Sponsorship Director), and **David Yarowsky** (ACL Treasurer), as well as the invaluable advice and encouragement of past \*ACL General Chairs, especially **Bernardo Magnini**, **Michael Strube**, **Roberto Navigli** and **Dan Roth**, whose experience was generously shared.

Thanks to our invited speakers, **Nizar Habash**, **Marta R. Costa-jussà** and **Mariya Toneva**, and the 2025 Karen Spärck Jones Award Winner, **Andrew Yates**, for their inspiring keynote presentations.

In sum, my thanks and appreciation go to everyone involved in EACL 2026: the organising committee members, the local community and volunteers, the many authors, presenters and all conference participants - both returning and to new members of the ACL community. At a time of significant growth for our conferences, this collaborative effort represents our collective contribution to the community.

On behalf of the organising committee, a warm welcome to everyone joining us in person in Rabat or virtually. Thank you for being part of EACL 2026!

Aline Villavicencio

University of Exeter (UK) and University of Sheffield (UK)

EACL 2026 General Chair

## Message from the Program Chairs

Welcome to EACL 2026! We are delighted to host you in Rabat and online for what promises to be an exciting conference. While our field is experiencing unprecedented growth and transformation, EACL remains a premier venue for presenting high-quality research. This year, we present an exciting, densely packed program that more fully integrates the Findings papers into the Main conference to reflect the breadth and depth of the field. From the keynote talks to the oral and poster sessions, every component has been carefully curated to promote scientific discussion and collaboration. We look forward to a memorable week of science and networking with all of you.

### Submission and Acceptance

Most papers that will be presented at EACL 2026 were originally submitted to the ARR October 2025 cycle. However, the ARR October cycle was targeted not only by EACL 2026, but also by ACL 2026, who advertised the ARR October 2025 cycle (so authors would have more time to obtain visas for attending ACL). This had major implications on the total number of submissions for the October cycle and the number of Senior Area Chairs (SACs) needed to handle the papers. In addition to the EACL SACs, ACL PCs therefore also contributed SACs to help handle the October ARR reviewing load, and also helped out themselves.

The ARR October cycle received a total of 3,603 submissions. Out of these, 128 were withdrawn and 165 needed to be desk rejected due to violations of the style or submission guidelines. 1,630 submissions indicated their preferred venue as ACL. In order to calculate the basis for the acceptance rate, we therefore excluded these papers, except for those that changed their minds and were actually committed to EACL (179 papers). We also added 229 papers that were committed to EACL but came originally from earlier ARR cycles. This yielded a total of 2,200 submissions, which we used as the basis for calculating acceptance rates.

Following the review, 1,365 papers were committed to EACL. Papers authored by program chairs were handled separately by a dedicated COI chair, selected by the EACL exec board. In the end, 445 papers (20.2%) were selected for the EACL Main Conference, and 355 papers (16.1%) were selected for EACL Findings. This is comparable to EACL 2024 (20.3% to the main conference and 14.5% to Findings). The conference programme also features seven papers from the Transactions of the Association for Computational Linguistics (TACL) journal, and five from the Computational Linguistics (CL) journal.

### Programme Committee Structure and Reviewing

1,000 Area Chairs (ACs) and 3,225 reviewers, recruited via ARR's existing pool and among the authors who submitted to the October ARR cycle, contributed to the review process for this cycle. Three reviewers and one AC were automatically assigned to each paper using ARR's matching algorithm, based on reviewers' past publications and the maximum load set by reviewers and ACs. In parallel, 66 senior members of the NLP community were directly invited to act as Senior Area Chairs (SACs) for EACL 2026, with varying numbers of SACs per area, depending on the expected number of submissions to the area. The assignment additionally ensured that each AC was only handled by a single SAC, as this facilitates handling late reviewers and late ACs.

### Presentation Mode

Out of a total of 445 papers to be presented at the main conference, 328 (74%) will be presented in person and 117 (26%) will be part of the virtual program. Of the 328 in-person presentations, 195 have

been scheduled as oral presentations, while the remaining 133 will be presented in poster sessions. The decision on presentation mode was based primarily on the authors' preferences. With only a handful of exceptions, we were able to accommodate all requests.

For the 10 TACL and CL papers to be presented in person, the authors' preferred presentation mode was followed strictly (5 oral presentations and 5 posters).

The in-person program has been organized into eight 90-minute sessions with six parallel tracks each (five for oral presentations and one for posters). As a novelty, we have extended the time allocated for oral presentations to 18-minute slots (14 minutes for the presentation and 4 minutes for Q&A and speaker change), allowing each 90-minute session to include five papers.

Papers were assigned to sessions to ensure thematic coherence. While we initially relied on the original paper areas, we merged some areas and split broader ones into coherent subtopics where necessary. We also had to adapt to constraints posed by the authors, mainly related to travel. Another criterion was to avoid scheduling topically related sessions in parallel. Overall, we are satisfied with the cohesiveness of the sessions and their distribution across the program. Last-minute changes may introduce some deviations from the original structure, so a few outliers are possible. In the process of clustering papers into sessions and defining session titles, we used several LLMs to generate initial drafts, which were then manually refined. This proved to be a very useful time-saver.

The virtual program will take place during the main conference days and will be organized into three sessions with multiple parallel tracks, each covering a different global time zone (early morning for Asia-Pacific, midday for EMEA, and later in the day for the Americas). Sessions will last a maximum of 120 minutes, with six presentations per track (15 minutes each) during the first 90 minutes, followed by an additional 30 minutes for discussion and questions.

As another novelty for the 2026 edition, all 355 papers accepted to Findings of the ACL will be presented at the conference, either in person (203, or 57%) or virtually (152, or 43%). The 203 in-person Findings papers will all be presented as posters and will be included in the general poster sessions alongside the main conference papers. The virtual program for Findings will also take place during the conference days, organized into two sessions (early morning and evening) with multiple parallel tracks. These sessions will last up to 120 minutes, with nine papers presented during the first 90 minutes, leaving 30 minutes for additional discussion.

## **Best Paper Awards**

We followed the ACL award policy to recognize outstanding research. From a pool of 30 candidate papers nominated by reviewers, ACs, and SACs, as well as those with notably high review scores, the Best Paper Award Committee selected the Best Paper and Outstanding Papers. The selection process was double-blind, using anonymized camera-ready versions of the papers. In addition to the main awards, the committee selected recipients for the Social Impact Award, Resource Award, Evaluation and Model Insight Award, and SAC Highlights. Unlike previous years, awardees will be announced during the opening session, allowing attendees to engage with the award-winning work in its proper research context and facilitating deeper discussion.

## **Keynotes**

We are excited to include three keynote talks in the plenary sessions:

- Prof. Nizar Habash (New York University Abu Dhabi): Arabic and Technology: A 40-Year Perspective

- Dr. Marta R. Costa-jussà (Meta AI): Omnilingualism, Scaling AI to Any language
- Dr. Mariya Toneva (Max Planck Institute for Software Systems): Large Language Models as Model Organisms of Language in the Human Brain

Furthermore, we include a lecture from the winner of this year's Karen Spärck Jones Award:

- Dr. Andrew Yates (Johns Hopkins University): Search with Complex Topics and Learned Sparse Retrieval

## **Thank You**

The program of this conference is the result of a huge collaborative effort involving thousands of people. We would like to express our sincere appreciation to everyone who has contributed.

We thank the ARR team, particularly the October 2025 Editors-in-Chief, Jing Jiang, Xiaojun Wan, and Michael White, for their fantastic support and the OpenReview team, especially Rachel Smart, for their invaluable technical support. Our gratitude also goes to the Senior Area Chairs and Area Chairs for managing the heavy review load, and to every reviewer who provided constructive feedback. We also thank the Best Paper Award Committee and the chairs, Yulan He and Alessandro Lenci, for their rigorous selection of winners, and the Ethics Chair, Nedjma Djouhra Ousidhoum, for managing ethics reviews.

We also thank the General Chair, Aline Villavicencio, for her unwavering support. We appreciate the essential contributions of the Publication Chairs, Firoj Alam and Fernando Alva Manchego, and the Handbook Chairs, Prajit Dhar and Marco Polignano, for their hard work in producing the proceedings and the conference handbook. We are also grateful to the Website Chair, Wei He; the Publicity Chairs, Marcey Zanon Boito, Nadia Chirkova, and Matthew Shardlow; and the Internal Communications Chairs, Maggie Mi and Leonardo Zilio, for their excellent work managing communications and keeping the community informed.

Last but not least, we thank Jennifer Rachford and the ACL office, as well as Damira Mršić and the Underline team, for their professional support in managing the complexities of the conference.

## Message from the Local Chair

Dear EACL 2026 Participants,

It is with great joy and deep pride that we welcome you to EACL 2026 in Rabat, Morocco. This edition marks a historic milestone, as for the first time a conference of the European Chapter of the ACL is being held outside Europe. We are truly honored that Rabat and Morocco have been chosen to host this landmark gathering of our community.

Rabat, Ville Lumière, the City of Lights, is a place where heritage and modernity illuminate one another. From its Atlantic coastline and UNESCO-listed landmarks to its dynamic universities and growing innovation ecosystem, Rabat offers an inspiring setting for a week devoted to the science of language and the future of language technologies.

Situated at the crossroads of Europe, Africa, and the Arab world, Morocco has historically been a land of exchange and encounter. Multiple languages coexist and interact in daily life, reflecting centuries of cultural interaction and mobility. This multilingual reality resonates deeply with the mission of our community to build language technologies that are inclusive and representative of diverse linguistic ecosystems.

Morocco has also established itself as a host of major international scientific and technological events. Our field is no exception. LREC 2008 was successfully held in Marrakech, bringing together researchers from across the globe in language resources and evaluation. EACL 2026 continues this tradition and reaffirms Morocco's role as a bridge between continents and as a welcoming hub for global research collaboration.

Our ambition is twofold. First, to offer you an outstanding scientific program, including the main conference, tutorials, workshops, and satellite events, reflecting the depth, diversity, and vitality of research across our field. Second, to invite you to discover one of the world's oldest kingdoms, rich in history, culture, and hospitality. We hope you will take time to explore our museums and gardens, wander through the medina, and experience the flavors and colors that make Morocco unique.

This year also offers a special opportunity: hosting an NLP school dedicated to the study and advancement of Arabic and its local dialects, and linguistic varieties. This initiative offers fertile ground for advancing multilingual NLP, low-resource methods, and culturally grounded evaluation.

We are equally pleased to highlight that Morocco has placed Artificial Intelligence, with NLP playing a central role, at the heart of its national digital transformation strategy. As outlined in Maroc Digital 2030, the country has established a clear roadmap and a dedicated institutional framework to support innovation, talent development, and responsible AI adoption across sectors. Hosting EACL 2026 aligns naturally with this vision, reinforcing Morocco's role as an emerging hub for AI research and innovation.

Our deepest thanks go to the organizing team, volunteers, sponsors, and partners across Moroccan institutions whose dedication has made this event possible. We are also sincerely grateful to the broader EACL and ACL communities for their trust and support in bringing EACL to Rabat.

Welcome to EACL 2026. May this week spark new ideas, forge lasting collaborations, and leave you with memorable experiences of both our field and our city.



# Organizing Committee

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Yi Zhou, Lecturer, Cardiff University  
Yue Dong, Assistant Professor, University of California, Riverside  
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Ivan Vulić, University of Cambridge / Google DeepMind  
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Isabelle Augenstein, University of Copenhagen

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Simone Paolo Ponzetto, University of Mannheim

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Saif M. Mohammad, Researcher, National Research Council Canada

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Thang Vu, Uni Stuttgart

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Shay B Cohen, University of Edinburgh

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# Keynote Talk

## Arabic and Technology: A 40-Year Perspective

**Nizar Habash**

New York University Abu Dhabi



**Wed, March 25, 2026 – Time: 10:00 – 11:00 – Room: Salle Le Riad (Level 1)**

**Abstract:** Over the past four decades, work at the intersection of Arabic and technology has evolved alongside major technical breakthroughs and shifting regional and global political dynamics. In this talk, I revisit the development of Arabic NLP and AI, from early foundational efforts to today’s large-scale generative systems, and highlight how each phase has engaged with distinct aspects of Arabic’s linguistic complexity. I reflect on the language’s ambiguous orthography, rich morphology, diglossic landscape, and wide geographic and historical reach, and on the growing research community committed to ensuring that AI technologies meaningfully support Arabic and its diverse cultural expressions. I conclude with a forward-looking vision for building a cohesive and sustainable ecosystem that advances Arabic in AI through strengthened training, deeper collaboration, and sustained innovation for the next generation of researchers and practitioners.

**Bio:** Nizar Habash is a Professor of Computer Science at NYU Abu Dhabi and Director of the CAMEL Lab. He is also a Consulting Professor at MBZUAI. A leading researcher in natural language processing, particularly for Arabic, he previously was a research scientist at Columbia University and earned his PhD from the University of Maryland College Park. He has published extensively, including the book *Introduction to Arabic Natural Language Processing*, and has led numerous research grants. His honors include the King Salman Academy for Arabic Language Award (2022) and the Antonio Zampolli Prize (2024). He was named an ACL Fellow in 2025.

# Keynote Talk

## Omnilinguality, Scaling AI to Any language

Marta R. Costa-jussà  
FAIR at Meta



**Thu, March 26, 2026 – Time: 16:30 – 17:30 – Room: Salle Le Riad (Level 1)**

**Abstract:** Communication across languages has been historically a “holy grail” in the context of AI. In a world with more than 7000 languages, AI still falls short in terms of coverage or equitably serving different languages. For decades we have focused on high-resource languages, since models have largely been resource-dependent. Today we are witnessing the evolution of techniques that can contribute to better represent a larger number of languages. We are kind of breaking the “digital desert”.

In this talk, we will cover an overview of the path towards Omnilinguality in AI through the lens of the Machine Translation, starting with basic but complex definitions such as language or long-tail. MT is one of the most popular and well-explored applications in multilinguality. MT has been shown to scale to a massive number of languages with flagship specialised models covering from hundreds up to thousands of languages. Progress in MT has been largely driven by the scientific community effort of WMT that has put together competitions, benchmarks and constantly posing new challenges. Other key contributions have been the open-sourced evaluation datasets such as FLORES that cover hundreds of languages in the Wikipedia domain, and more recently BOUQuET that builds on top of non-English data, originally created and expanding to more domains. These initiatives are complemented with open-initiatives that allow the community to contribute with more languages.

In my personal opinion, while MT has served as a platform to reach such progress, it may not always be the main one. Even if we have not yet solved this task, the rise of LLMs shows the opportunity to solve many tasks at once. MT will still be a relevant part of the puzzle by being a source of synthetic data generation and a representative evaluation in breadth. However, I will argue that Omnilinguality should not be faced task-specifically anymore and it should be taken as a great arena to test more broadly advanced LLMs techniques and an opportunity to come up with new methods to massively scale general purpose evaluation.

**Bio:** Marta R. Costa-jussà is a research scientist at Meta AI since February 2022. She received her PhD from the UPC in 2008. Her research experience is mainly in Machine Translation. She has worked at LIMSI-CNRS (Paris), Barcelona Media Innovation Center, Universidade de São Paulo, Institute for Infocomm Research (Singapore), Instituto Politécnico Nacional (Mexico), the University of Edinburgh and at Universitat Politècnica de Catalunya (UPC, Barcelona). She has received an ERC Starting Grant and two Google Faculty Research Awards. Recently, she has participated in the No-language-left-behind (NLLB) and Seamless projects which both have been published in Nature. She has published hundreds of scientific papers and she is co-author of the novel *El sueño de Mia*.

# Keynote Talk

## Large Language Models as Model Organisms of Language in the Human Brain

Mariya Toneva

Max Planck Institute for Software Systems



**Fri, March 27, 2026 – Time: 14:00 – 15:30 – Room: Salle Le Riad (Level 1)**

**Abstract:** Language is one of the richest and most complex human cognitive capacities. Yet, we lack a model organism to study its underlying neural mechanisms: unlike other important cognitive capacities, such as vision or memory, language does not have a clear counterpart in non-human animals, leaving a gap in our ability to develop and test mechanistic hypotheses. In recent years, large language models (LLMs) have emerged as the closest computational analogs we have but how can we use them effectively as model organisms for language in the human brain? In this talk, I will discuss the promise and challenges of this approach. I will present our recent work on brain-tuning using naturalistic brain recordings to refine LLMs so that their internal representations and processing better align with human neural data. But beyond representational similarity, a key question remains: do LLMs rely on mechanisms that are similar to those in the brain? And at what level of abstraction should we assess this similarity? This research direction aims to transform LLMs from mere engineering artifacts into powerful scientific tools for uncovering how the brain supports our most distinctive cognitive ability.

**Bio:** Mariya Toneva is a faculty member at the Max Planck Institute for Software Systems, where she leads the Bridging AI and Neuroscience (BrAIN) group. Her research bridges natural language processing, machine learning, and cognitive neuroscience to develop computational models that deepen our understanding of how the brain processes language and guide the creation of more human-aligned AI systems. Her pioneering work at this intersection has been recognized and supported by the U.S. National Science Foundation (NSF), the German Research Foundation (DFG), and the European Research Council through an ERC Starting Grant.

# Karen Spärck Jones Awardee and Lecture

## Search with Complex Topics and Learned Sparse Retrieval

Andrew Yates  
Johns Hopkins University



**Fri, March 27, 2026 – Time: 16:00 – 17:00 – Room: Salle Le Riad (Level 1)**

**Abstract:** Today, search is used by LLMs to support retrieval-augmented generation as well as by humans. In this new setting, how does what we want from a search engine change, and what are promising approaches to take? I will describe work on two themes related to these questions: (1) retrieving documents to support complex information needs in the context of long-form retrieval-augmented generation and (2) exploring learned sparse retrieval as a promising paradigm for first-stage retrieval. In the former line of work, I will discuss search systems aimed at maximizing coverage of relevant information and approaches for evaluating their ability to do so independent of a generation system. In the latter line of work, I will describe research positioning learned sparse retrieval as a compelling alternative to dense retrieval.

**Bio:** Andrew Yates is a Senior Research Scientist at Johns Hopkins University, where his research focuses on developing content-based neural ranking methods and leveraging them to improve search and downstream tasks in challenging scenarios. He has co-authored a variety of papers on neural ranking methods as well as a book on transformer-based neural methods: “Pretrained Transformers for Text Ranking: BERT and Beyond”. Previously, Andrew was an Assistant Professor at the University of Amsterdam and a Senior Researcher at the Max Planck Institute for Informatics.

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