

Debjit Paul

Postdoctoral Researcher
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Google Scholar Profile

AREAS OF INTEREST	Natural Language Understanding, Commonsense Reasoning, Knowledge-based Reasoning, Generative AI, Interpretable and Explainable Machine Learning, Human-AI Interaction	
EDUCATION	Ph.D. in Computational Linguistics	2018 - 2022
	Heidelberg University <i>Thesis:</i> “Social Commonsense Reasoning with Structured Knowledge in Text” <i>Advisor:</i> Prof. Anette Frank <i>Grade:</i> Summa cum laude	
	M.Sc. in Computer Science	2014 - 2017
	Saarland University <i>Thesis:</i> “Multitasking Learning With Unreliable Labels” <i>Advisor:</i> Prof. Dietrich Klakow	
	B.Tech in Computer Science	2010 - 2014
	GuruNanak Institute of Technology <i>Thesis:</i> “Improved Algorithm for Human and non-Human Object Detection”	
WORK EXPERIENCE	Postdoctoral Researcher	April 2022 - Present
	School of Computer and Communication Sciences at EPFL <i>Host:</i> Prof. Boi Faltings, Prof. Robert West <i>Topic:</i> Neuro-Symbolic AI <i>Funding:</i> EU-Funded Horizon 2020 project	
	Research Intern	Winter 2021
	Amazon Alexa AI Team, Berlin <i>Topic:</i> Continual Learning for NLP	
SELECTED PUBLICATIONS	<i>Flows: Building Blocks of Reasoning and Collaborating AI</i> arXiv 2023. Martin Josifoski, Lars Klein, Maxime Peyrard, Yifei Li, Saibo Geng, Julian Paul Schnitzler, Yuxing Yao, Jiheng Wei, Debjit Paul , Robert West	
	<i>REFINER: Reasoning Feedback on Intermediate Representations</i> arXiv 2023. Debjit Paul , Mete Ismayilzada, Maxime Peyrard, Beatriz Borges, Antoine Bosselut, Robert West, Boi Faltings	
	<i>Language Model Decoding as Likelihood–Utility Alignment</i> Findings of the Association for Computational Linguistics: EACL 2023 Martin Josifoski, Maxime Peyrard, Frano Rajič, Jiheng Wei, Debjit Paul , Valentin Hartmann, Barun Patra, Vishrav Chaudhary, Emre Kiciman, Boi Faltings and Robert West	

COINS: Dynamically Generating COntextualized Inference Rules for Narrative Story Completion

Association for Computational Linguistics (ACL 2021)

Debjit Paul, Anette Frank

Generating Hypothetical Events for Abductive Inference

Proceedings of the Tenth Joint Conference on Lexical and Computational Semantics (*Sem 2021)

Debjit Paul, Anette Frank

CO-NNECT: A Framework for Revealing Commonsense Knowledge Paths as Explications of Implicit Knowledge in Texts

Proceedings of the 14th International Conference on Computational Semantics

Maria Becker, Katharina Korfhage, **Debjit Paul**, Anette Frank

Social Commonsense Reasoning with Multi-Head Knowledge Attention

Findings of the Association for Computational Linguistics: EMNLP 2020

Debjit Paul, Anette Frank

Argumentative Relation Classification with Background Knowledge

Proceedings of the 8th International Conference on Computational Models of Argument (COMMA 2020), Frontiers in Artificial Intelligence and Applications, Computational Models of Argument.

Debjit Paul, Maria Becker, Juri Opitz, Graeme Hrist and Anette Frank

Explaining Arguments with Background Knowledge

Datenbank-Spektrum 20, 131–141 (2020)

Maria Becker, Ioana Hulpuş, Juri Opitz, **Debjit Paul**, Jonathan Kobbe, Heiner Stuckenschmidt, Anette Frank

Ranking and Selecting Multi-Hop Knowledge Paths to Better Predict Human Needs

North American Chapter of the Association for Computational Linguistics (NAACL 2019)

Debjit Paul, Anette Frank

SERVICE

Area Chair: EMNLP 2023

Program Committee: TACL 2023-2025, ACL 2023 & 2022, NAACL 2021, EMNLP 2022, 2021 & 2020, EACL 2023 & 2021, ARR, *SEM 2020 & 2021, CoNLL 2021, KI 2019, COIN 2019

HONORS AND AWARDS

Nominated as Best Student paper at COMMA 2020

Facebook Travel Award for EurNLP 2019, London, UK

Winner of HQ Hackathon 2017, at Trivago, Dusseldorf, Germany

MENTORING

MS Researchers

Mete Ismayilzada, Topic: Commonsense Reasoning Sept 2022 - June 2023

Rochat Mathieu Louis, Topic: Graph Continual Learning Sept 2022 - April 2023

Gabriele D'Angeli, Topic: Reinforcement Learning for NLP August 2023 - Present

Briki Farah, Topic: Reinforcement Learning for NLP August 2023 - Present

EPFL Summer Intern

Omar El Malki, Topic: Reinforcement Learning for NLP June 2022 - Feb 2023

Luca Mouchel, Topic: Logical Fallacy August 2023 - Present

TECHNOLOGY SKILLS *Programming Languages:* Python, Java, C.
Machine learning and NLP tools: PyTorch, Tensorflow, JAX, spaCy, AllenNLP, Transformers library.

LANGUAGES *Bengali:* Native language
English: Full professional proficiency
German: Elementary proficiency

REFERENCES *Prof. Anette Frank* Email: frank@cl.uni-heidelberg.de
Prof. Boi Faltings Email: boi.faltings@epfl.ch
Prof. Robert West Email: robert.west@epfl.ch
Prof. Antoine Bosselut Email: antoine.bosselut@epfl.ch