

Debjit Paul

Postdoctoral Researcher
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Google Scholar Profile

AREAS OF INTEREST	Natural Language Understanding, Commonsense Reasoning, Knowledge-based Reasoning, Reinforcement Learning, Generative AI, Interpretable and Explainable AI, 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
WORK EXPERIENCE	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
PUBLICATIONS	Amazon Alexa AI Team, Berlin	
	<i>Topic:</i> Continual Learning for NLP	
	Preprints	
	<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.	
Conferences	Debjit Paul , Mete Ismayilzada, Maxime Peyrard, Beatriz Borges, Antoine Bosselut, Robert West, Boi Faltings	
	<i>CRoW: Benchmarking Commonsense Reasoning in Real-World Tasks</i>	
	Association for Computational Linguistics: EMNLP 2023	
	Mete Ismayilzada, Debjit Paul , Syrielle Montariol, Mor Geva, Antoine Bosselut	

CRAB: Assessing the Strength of Causal Relationships Between Real-world Events
Association for Computational Linguistics: EMNLP 2023
Angelika Romanou, **Debjit Paul***, Syrielle Montariol*, Leo Laugier, Karl Aberer, Antoine Bosselut

Language Model Decoding as Likelihood–Utility Alignment
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 Explic-itations 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

PhD Researchers

Angelika Romanou co-advised with Antoine Bosselut	Sept 2022 - June 2023
Shaobo Cui co-advised with Boi Faltings	Sept 2022 - June 2023

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