GustavoPenha

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links

webpage
twitter
github
google scholar
linkedin

languages

portuguese
english

research

I am a research scientist at Spotify with a PhD from TU Delft in conversational search and recommendation. My research interests include information retrieval, recommender systems, natural language processing, and machine learning. I am currently working with information filtering systems that generally perform recommendation and search. In this context, some techniques and topics that I work with are dense/generative recommendation & retrieval models, re-rankers, LLMs, alignment, explainability, negative sampling, synthetic data generation, knowledge distillation, Generation-Augmented-Retrieval, and Retrieval-Augmented-Generation.

experience

2023-1–now	**Research Scientist** *Working on search and recommendation problems.*	Spotify - NL
2022-6–8	**Research Intern** *Research on query generation for retrievability (CIKM'23).*	Spotify - NL
2021-5–8	**Applied Research Intern** *Research on explanations for Alexa (CHI'22 & CHIIR'22).*	Amazon - US

selected publications

2024	**Bridging Search and Recommendation in Generative Retrieval** *Gustavo Penha, Ali Vardasbi, Enrico P, Marco de Nadai, Hugues B*	RecSys
2023	**Improving Content Retrievability with Controllable Query Gen** *Gustavo Penha, Enrico P, Maryam A, Alice W, Hugues B*	CIKM
2022	**Pairwise Review-Based Explanations for Voice Product Search** *Gustavo Penha, Eyal Krikon, Vanessa Murdock*	CHIIR
2022	**Evaluating Retrieval Pipelines with Query Variations** *Gustavo Penha, Arthur Câmara, Claudia Hauff*	Best paper @ECIR
2021	**On the Calibration and Uncertainty of Neural L2R Models** *Gustavo Penha, Claudia Hauff*	EACL
2020	**Probing BERT for Conversational Recommendation** *Gustavo Penha, Claudia Hauff*	RecSys

education

2018–2022	**Ph.D. (Conversational Search and Recommendation)** Computer Science. *10 papers, 100+ citations and 150+ github stars.*	TU Delft - NL
2012–2018	**B.Sc. and M.Sc.** Computer Science. *MSc paper won best paper RU award at RecSys'20.*	UFMG - Brazil