Antonios Minas Krasakis

Birth Date: 27 February 1991
Publications: Google Scholar
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Education

Sept 2019 - May 2025 **PhD** in **Computer Science**
University of Amsterdam, IRLab
Thesis: Improving Passage Retrieval for Conversational Search
Research areas: Information Retrieval, Conversational Search

Sept 2017 - Sept 2018 **MSc. Data Science**
University of Amsterdam
Cum Laude | GPA: *8,4/10,0* | Thesis grade: *9,0/10,0* (**top 5%**)

Sept 2008 - Jul 2015 **Dipl. Electrical & Computer Engineering**
Aristotle University of Thessaloniki

Research Interests

- Information Retrieval (IR)
- Retrieval Augmented Generation
- Large Language Models (LLMs)
- Conversational Search

Publications

CIKM 2025 Constructing Set-Compositional & Negated Representations for First-Stage Ranking.
A.M. Krasakis, A. Yates, E. Kanoulas

ArXiv (2024) Corpus-Informed Retrieval Augmented Generation of Clarifying Questions
A.M. Krasakis, A. Yates, E. Kanoulas

TOIS 2023 Contextualizing and Expanding Conversational Queries without Supervision
A.M. Krasakis, A. Yates, E. Kanoulas

SIGIR 2022 Zero-shot Query Contextualization for Conversational Search
A.M. Krasakis, A. Yates, E. Kanoulas

ICTIR 2020 Analysing the Effect of Clarifying Questions on Document Ranking in Conversational Search
A.M. Krasakis, M. Aliannejadi, N. Voskarides, E. Kanoulas

AKBC 2019 Semi-supervised Ensemble Learning with Weak Supervision for Biomedical Relationship Extraction
A.M. Krasakis, E. Kanoulas, G. Tsatsaronis

Professional Experience

May 2025 - Nov 2025 **Microsoft Research**, *Research Science Intern*
My work focuses on synthetic data generation, training, and evaluation of Small Language Models (SLMs) for low-resource languages and domain-specific applications.

Sept 2022 - Mar 2023 **Amazon**, *Applied Science Intern*
Worked on Learned Sparse Retrieval (LSR) and Multilingual Retrieval for Amazon product search. My work focused on (a) applying LSR methods in production product search pipelines and (b) testing their generalization capabilities to new languages.

Dec 2018 - Aug 2019	**BOL.com**, *Data Scientist* As part of the Data Science team responsible for content, I initiated and worked on a project to facilitate content-based recommendations for pairs of related products .
Apr 2018 - July 2018	**Elsevier**, *Data Science Intern* Worked on Information Extraction from scientific articles. *Thesis title:* Semi-supervised ensemble learning based on weak supervision, for biomedical relation extraction
Oct 2014 - Jul 2015	**Intelen Services Ltd.**, *Data Science Intern* Data Analytics on energy consumption data in non-interconnected electricity networks. Implemented Machine Learning algorithms for prediction and customer segmentation, with time-series data.

Teaching

	Guest Lecturer:
Autumn '23 & Spring '24	*Retrieval Augmented Generation* Information Retrieval II - MSc. AI (Univ. of Amsterdam)
Autumn '21	*Conversational Passage Retrieval* Information Retrieval II - MSc. AI (Univ. of Amsterdam)
	Student Supervision:
2021 - 2022	Andrew Harrison (MSc. AI thesis)
2020 - 2021	Liang Huang (MSc. AI thesis)
Spring 2019	Renuka Gurung (MSc. Data Science thesis)
	Teaching Assistantship:
Autumn '20,'21,'23	Information Retrieval II (MSc. AI - Univ. of Amsterdam)
Spring 2020	Applied Machine Learning (BSc. AI - Univ. of Amsterdam)

Invited Talks

May '22	Conversational Dense Retrieval *Neural Search Talks podcast*
November '21	Conversational Passage Retrieval *Dutch School for Information and Knowledge Systems (SIKS)*

Shared Task Participation

Summer '23	TREC-iKAT: Combining LLMs & retrieval for creating personalized conversational assistants. Benchmarking LLMs in Retrieve-then-Generate (RAG) & Generate-then-Retrieve pipelines. 🥇 *Our submission achieved the best results in this track!* [paper]
Summer '21	TREC-CAsT: Introduced a novel approach to perform zero-shot Conversational Search, using a token-level Dense Retriever. [paper]

Languages

English:	Full professional proficiency [C1 Level]
German:	Limited working proficiency [B2 Level]
Greek:	Mother-tongue