

# Antonios Minas KRASAKIS

## PERSONAL DETAILS

BIRTH DATE: 27 February 1991  [krasakis.com](https://krasakis.com)  [github.com/littlewine](https://github.com/littlewine)  
PUBLICATIONS: [Google Scholar](https://scholar.google.com/citations?user=...)  [in/krasakis](https://in.krasakis)  [amkrasakis@gmail.com](mailto:amkrasakis@gmail.com)

## EDUCATION

SEPT 2019 - PRESENT **PhD Candidate** at [IRLAB](https://www.irilab.nl/), University of Amsterdam  
Research topics: Conversational Search, Information Retrieval  
SEPT 2017 - SEPT 2018 **MSc. Data Science**  
*University of Amsterdam, The Netherlands*  
**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, Greece*  
GPA: 7,0/10,0 | Thesis grade: 10,0/10,0

## RESEARCH INTERESTS

- INFORMATION RETRIEVAL (IR)
- LARGE LANGUAGE MODELS (LLMs)
- RETRIEVAL AUGMENTED GENERATION (RAG)
- CONVERSATIONAL SEARCH

## PUBLICATIONS

WebConf 2025 (under submission)	Constructing negated & set-compositional representations for first-stage ranking. <b>A.M. Krasakis</b> , A. Yates, E. Kanoulas
WebConf 2025 (under submission)	Corpus-Informed Retrieval Augmented Generation of Clarifying Questions <b>A.M. Krasakis</b> , A. Yates, E. Kanoulas
TOIS 2023	<a href="#">Contextualizing and Expanding Conversational Queries without Supervision</a> <b>A.M. Krasakis</b> , A. Yates, E. Kanoulas
SIGIR 2022	<a href="#">Zero-shot Query Contextualization for Conversational Search</a> <b>A.M. Krasakis</b> , A. Yates, E. Kanoulas
ICTIR 2020	<a href="#">Analysing the Effect of Clarifying Questions on Document Ranking in Conversational Search</a> <b>A.M. Krasakis</b> , M. Aliannejadi, N. Voskarides, E. Kanoulas
AKBC 2019	<a href="#">Semi-supervised Ensemble Learning with Weak Supervision for Biomedical Relationship Extraction</a> <b>A.M. Krasakis</b> , E. Kanoulas, G. Tsatsaronis

## WORKING EXPERIENCE

SEPT 2022 - MAR 2023	<b>Applied Science Intern</b> at AMAZON, Barcelona, ES As part of the Amazon product search team, I worked on Learned Sparse Retrieval (LSR) and Multilingual Retrieval. My project focused on (a) applying LSR methods in production product search pipelines and (b) testing their generalization capabilities to new languages.
DEC 2018 - AUG 2019	<b>Data Scientist</b> at BOL.COM, Utrecht, NL 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	<b>Data Scientist (thesis internship)</b> at ELSEVIER, Amsterdam, NL <i>Thesis title: <a href="#">Semi-supervised ensemble learning based on weak supervision, for biomedical relation extraction</a></i> Worked on Information Extraction from scientific articles. Proposed and implemented a novel weak supervision approach for the task of relationship extraction.
OCT 2014 - JUL 2015	<b>Data Scientist (thesis internship)</b> at INTELEN SERVICES LTD., Athens, GR Performed Data Analysis on energy consumption data in non-interconnected electricity networks. Implemented Machine Learning algorithms for prediction and customer segmentation, with time-series data.

## TEACHING

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

## INVITED TALKS

May '22	<a href="#">Conversational Dense Retrieval</a> <i>Neural Search Talks podcast</i>
November '21	<a href="#">Conversational Passage Retrieval</a> <i>Dutch School for Information and Knowledge Systems (SIKS)</i>

## 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. 🏆 <i>Our submission achieved the best results in this track!</i> <a href="#">[paper]</a>
Summer '21	TREC-CAsT: Introduced a novel approach to perform zero-shot Conversational Search, using a token-level Dense Retriever. <a href="#">[paper]</a>
Summer '20	TREC-COVID: Worked on a novel weak-supervision/meta-learning approach, trying to train text-to-text rankers from multiple simpler rankers.

## LANGUAGES

ENGLISH:	Full professional proficiency [C1 Level]
GERMAN:	Limited working proficiency [B2 Level]
GREEK:	Mother-tongue