

Antonios Minas KRASAKIS

PERSONAL DETAILS

BIRTH DATE: 27 February 1991
PUBLICATIONS: [Google Scholar](#)
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GITHUB: <https://github.com/littlewine>



EDUCATION

SEPT 2019 - PRESENT **PhD Candidate** at [IRLAB](#), 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

PUBLICATIONS

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

WORKING EXPERIENCE

SEPT 2022 - **Applied Science Intern** at [AMAZON](#), Barcelona, ES

MAR 2023 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 - **Data Scientist** at [BOL.COM](#), Utrecht, NL

AUG 2019 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 - **Data Scientist (thesis internship)** at [ELSEVIER](#), Amsterdam, NL

JULY 2018 *Thesis title:* [Semi-supervised ensemble learning based on weak supervision, for biomedical relation extraction](#)
Worked on Information Extraction from scientific articles. Proposed and implemented a novel weak supervision approach for the task of relationship extraction.

OCT 2014 - **Data Scientist (thesis internship)** at INTELEN SERVICES LTD., Athens, GR
JUL 2015 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.

RESEARCH INTERESTS

- INFORMATION RETRIEVAL (IR)
- DENSE RETRIEVAL
- LEARNED SPARSE RETRIEVAL
- RETRIEVAL AUGMENTED GENERATION (RAG)
- CONVERSATIONAL SEARCH
- UNCERTAINTY IN IR

TEACHING

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

INVITED TALKS

November '21 | [Conversational Passage Retrieval](#)
Dutch School for Information and Knowledge Systems (SIKS)

SHARED TASK PARTICIPATION

Summer '23	TREC-iKAT : Benchmarking LLMs in Retrieve-then-Generate (RAG) or Generate-then-Retrieve pipelines for conversational personalized chatbots that require knowledge (searching the web). Our submission achieved the best results in this track!
Summer '21	TREC-CAsT: Worked on a novel approach to perform zero-shot Conversational Search, using a token-level Dense Retriever.
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: Native Language