

Mubashara Akhtar

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EDUCATION

PhD in Natural Language Processing, King's College London Oct 2020 - Dec 2024

- Advisor: [Prof. Elena Simperl](#), [Dr. Oana Cocarascu](#)
- Topic: Multimodal Evidence Integration for Automated Fact-Checking
- Thesis submitted: July 2024 (defended in Dec 2024)

Visiting PhD student, University of Cambridge Jan - June 2023

- Host: [Prof. Andreas Vlachos](#)
- Visiting the [NLP research group](#)

BSc & MSc in Computer Science, TU Wien Oct 2011 - Jan 2020

- Minor in Economics
- Grade Master's Degree: 1.6 (comparable to UK first)
- Grade Bachelor Degree: 2.1 (comparable to UK 2.1)

SELECTED PUBLICATIONS

TANQ: An open domain dataset of table answered questions.

Mubashara Akhtar*, Chenxi Pang*, Andreea Marzoca, Yasemin Altun, Julian Martin Eisenschlos
Accepted to the Transactions of the Association for Computational Linguistics (**TACL**), 2024.

Croissant: A Metadata Format for ML-Ready Datasets. **spotlight** (top 3% of submissions)

Mubashara Akhtar*, Omar Benjelloun*, Costanza Conforti*, et al.

Accepted to Advances in Neural Information Processing Systems 36 (**NeurIPS** 2024).

Croissant: A Metadata Format for ML-Ready Datasets. (**best paper award**)

Mubashara Akhtar*, Omar Benjelloun*, Costanza Conforti*, et al.

Proceedings of the Eighth Workshop on Data Management for End-to-End Machine Learning, 2024.

ChartCheck: Explainable Fact-Checking over Real-World Chart Images.

Mubashara Akhtar, Nikesh Subedi, Vivek Gupta, Sahar Tahmasebi, Oana Cocarascu, Elena Simperl.
Findings of the Association for Computational Linguistics (**ACL**), 2024.

Exploring the Numerical Reasoning Capabilities of Language Models: A Comprehensive Analysis on Tabular Data.

Mubashara Akhtar*, Abhilash Shankarampeta*, Vivek Gupta, et al.

Findings of Annual Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2023.

Multimodal Automated Fact-Checking: A Survey.

Mubashara Akhtar, Z. Guo, Michael Schlichtkrull, Oana Cocarascu, Elena Simperl, Andreas Vlachos.
Findings of Annual Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2023.

Reading and Reasoning over Chart Images for Evidence-based Automated Fact-Checking.

Mubashara Akhtar, Oana Cocarascu, Elena Simperl.

Findings of Annual Conference of the European Chapter of the Association for Computational Linguistics (**EACL**), 2023.

WORK EXPERIENCE

- Postdoctoral Fellow, ETH Zurich (Zurich, Switzerland)** since Jan 2025
- Host: [Mrinmaya Sachan](#)
 - Received the [ETH AI Center Fellowship](#) (3% acceptance rate)
- Student Researcher, Google Deepmind (Zurich, Switzerland)** July - Nov 2023 & Jan - April 2024
- Host: [Julian Eisenschlos](#)
 - Project on open-domain question answering with text, tables, and semi-structured data
- Head Teaching Assistant, King's College London (London, UK)** Sept 2021 - Dec 2022
- Course: Python programming for data scientists
 - Responsibilities: coursework co-design, lab supervision, marking of programming projects
- Data Scientist, Mayato AT (Darmstadt, Germany)** Jan 2019 - Sept 2020
- German smart speaker project for Europe's largest telecom provider, **Deutsche Telekom AG**
 - Language model development for recognising users' intents given interactions with the smart speaker
 - Technologies: Python (PyTorch, transformers, scikit-learn, nltk, etc.), MS LUIS, git, etc.
- Java Software Engineer, Ebcont GmbH (Vienna, Austria)** Oct 2017 - Dec 2018
- Developed a fraud detection tool for Austrian Ministry of Finance
 - Technologies: Java, Openshift, Camunda, Spring Boot, Maven, Hibernate, etc.
- Research Assistant, TU Wien (Vienna, Austria)** Feb - Dec 2017
- Machine learning project in cooperation with telecom company, T-Mobile Austria
 - Researched on user modelling and clickstream prediction; reported to head of data lab at T-Mobile
- Statistics Consultant, United Nations (Vienna, Austria)** Sept - Dec 2015
- Analysed trends in the manufacturing industry in MENA countries
 - Reported to chief statistician at the United Nations Industrial Development Organisation (UNIDO)
- Teaching Assistant, TU Wien (Vienna, Austria)** Mar - July 2014
- Institute of Computer Graphics & Algorithms; Institute of Statistics & Math. Methods in Economics
 - Taught groups of 20 students; prepared and reviewed math and programming assignments/labs

GRANTS & AWARDS

- Awarded the [ETH Zurich AI Center Fellowship](#) (3% acceptance rate), 2024
- Best Short Paper Award, DEEM workshop @SIGMOD, 2024
- Research Impact Award, King's College London NMES PhD competition, 2023
- King's College London NMES Faculty Studentship Award (Total £79,9223), 2020-2024
- [European Forum Alpbach](#) scholarship for the years 2020/21 (5% acceptance rate), 2020
- US Embassy of Austria's Austria to Austin Entrepreneurship program, 2019
- [Ban Ki-moon Center for Global Citizens](#) mentorship (mentored by TU Wien vice-rector), 2019
- Research scholarship from TU Wien for master's thesis, 2017
- ACM RecSys summer school and conference grant from TU Wien, 2017
- Merit-based scholarship from TU Wien, 2012-2016
- Top 1% with 1.0 grade at Austrian high school final exam (summa cum laude)

SERVICE & SCIENTIFIC EXPERIENCE

Co-Lead Responsible AI working group, Croissant ML Dataset Format , MLCommons	since Aug 2023
Organisation committee FEVER workshop , co-located with EACL '23 , EMNLP '24	since Oct 2022
Organisation King's College London KG Lab's weekly seminar group	Dec 2020 - Dec 2022
Teaching Assistant, Oxford Machine Learning Summer School	July 2021
Organisation of a Women in ML (WiML) Workshop at NeurIPS 2020	Dec 2020
ACM Summer School on Recommender Systems	Aug 2017

MEDIA & OUTREACH (SELECTED)

Interview on AI and misinformation with the Austrian public broadcaster, ORF	Vienna, Austria (2024)
Panel discussion at Österreichischer Journalistinnenkongress	Vienna, Austria (2024)
Talk at CardiffNLP , Cardiff University	Cardiff, UK (2024)
Talk at Int. Multimodal Communication Centre , University of Oxford	Oxford, UK (2024)
Talk at iPragma group, Google DeepMind	Zurich, Switzerland (2023)
Panel discussion at the European Forum Alpbach 2023	Alpbach, Austria (2023)
Talk at Alan Turing Visualization Interest Group 5th Symposium	London, UK (2023)
Panel moderation A digital Future with Human Values , Austrian Embassy UK	London, UK (2023)
Interview for the podcast FrauenFunk , City Council of Vienna	Vienna, Austria (2021)

EXTRA-CURRICULAR

President, Club Alpbach London	Oct 2022 - Nov 2023
Board member, Club Alpbach Vienna	Oct 2020 - Sept 2022
Board member (2015 - 2020) and scouts leader, Scouts in Austria	2013 - 2020