



Sara Vera Marjanović

PhD Student in Information Retrieval & NLP

[Github](#) | [Google Scholar](#) | [LinkedIn](#) | [Website](#)

I work with big data to increase the transparency of large language models and improve our understanding of cognitive-based AI.

Education

- 2023 – now **PhD in Computer Science**, Københavns Universitet, Danmark
» Joint supervision by Dr. Christina Lioma and Dr. Maria Maistro in Information Retrieval and Dr. Isabelle Augenstein in NLP.
» Investigating the interpretability and trustworthiness of large language models given noisy or faulty data
- 2019 – 2021 **MSc in IT & Cognition**, Københavns Universitet, Danmark
» Coursework focused in Large-Scale Data Science (including Machine Learning), Natural Language Processing, Image Processing, and Robotics. cGPA: 11.8/12.0
» Thesis investigated bipartisan linguistic differences in gendered political discussions on Reddit.
- 2012 – 2016 **BSc in Neuroscience**, McGill University, Canada
» Undergraduate thesis analysed the effect of estrogen administration on the electric organ discharge of the weakly electric fish, *B. gauderio*, with MATLAB algorithms.
» Courses in computational neuroscience, evolutionary biology, and computer science. cGPA: 3.91/4.00, Graduated with Distinction. Dean's Honour List: 2013, 2015

Research & Data Science

- 2022 – 2023 **Consultant**, Capgemini Insights & Data, Danmark
» Provided data science and analytics support in client projects within public AI & ethics using cloud-computing services (Azure, AWS, Google cloud)
» Led business development projects within MLOps, multimodal synthetic data, and quantum machine learning.
- 2020 – 2022 **Data Scientist**, FocusWRX, Danmark
» Predicted and analysed aggregated organizational stress readings (HRV from Garmin watches) and Outlook usage to determine stressors in work environments.
» Ran user interviews and analytics research to guide feature development.
- 2020 – 2022 **Research Assistant**, Copenhagen Center for Social Data Science, Danmark
» Collaborated in a multi-university project modelling network transmission of coronavirus misinformation on Twitter.
» Studied patterns of misinformation narratives in Scandinavia social media.

Teaching Experience

- 2023 **Teaching Assistant**, Københavns Universitet, Fair & Transparent Machine Learning
» Planned & led weekly practical sessions in probing, fairness metrics and XAI
» Graded and provided feedback/guidance to student presentations and projects
- 2020 **Teaching Assistant**, Københavns Universitet, Introduction to Social Data Science
» Led online and physical Social Data Science programming lessons 3x a week
» Taught biweekly quantitative analysis workshops.

Publications

Waiting review	<i>Marjanovic, Augenstein & Lioma (2023). The impact of uncertainty on explanation coherence: an empirical study. Submitted to NAACL 2024.</i>
2022	Marjanovic, Stańczak, & Augenstein (2022). Quantifying Gender Biases Towards Politicians on Reddit. <i>PlosONE</i> .
2022	Kjær, Marjanovic, Johansen, Baglini & Adler-Nissen (2022). Misinformation, social status og latterliggørelse: En undersøgelse af danskeres spredning af og reaktioner på Covid-19 misinformation på Twitter. <i>Politica</i> .
2022	Johansen, Marjanovic, Kjær, Baglini & Adler-Nissen (2022). Ridiculing the “tin foil hats:” Citizen responses to COVID -19 misinformation in the Danish facemask debate on Twitter. <i>Harvard Misinformation Review</i> . https://misinforeview.hks.harvard.edu/article/ridiculing-the-tin-foil-hats-citizen-responses-to-covid-19-misinformation-in-the-danish-facemask-debate-on-twitter/

Awards

2021	Columbus Prisen (as part of the HOPE project), <i>Forlaget Columbus</i> 50000 DKK award for public institutions that uphold ideas of democracy, genuine political commitment and the importance of factual arguments.
2015	Quinn Research Assistantship Award , <i>University of British Columbia</i> 6000 CAD research grant for undergraduate research within psychology.

Skills

Coding	Level	Languages	Level	Tools	Hobbies
Python	●●●●○	English	●●●●●	Tensorflow/Pytorch	Puzzles
R	●●●○	Serbo-Croatian	●●●●○	Cloud-computing	Climbing
MATLAB	●●●○	Danish	●●●●○	Git	Endurance sports
LaTeX	●●●○	French	●●●○	Pyspark	Reading fiction