

THOMAS VAKILI



Contact Information

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Education

PhD Student - Stockholm University

2021 -

Currently studying towards a PhD degree in computer science at the Department of Computer and Systems Sciences. The position is financed by the DataLEASH project and is focused on privacy preserving machine learning for natural language processing.

M.Sc. in Computer Science - KTH Royal Institute of Technology

2013 - 2020

Studied the five year engineering programme which grants an engineering diploma and a M.Sc. in computer science. My specialization was natural language processing and machine learning.

Persian Philology - Uppsala Universitet

2016 - 2017

Between the bachelor and master parts of the engineering programme I studied Persian for a year at the Department of Linguistics and Philology. This improved my skills in my second mother tongue and also deepened my knowledge of linguistics.

Industry Experience

Consultant - Netlight Consulting

Q3 2019 -

Netlight is a prestigious IT consultancy firm based in Stockholm and with offices in multiple European cities. I am currently on leave of absence during my PhD studies.

Data Engineer - Spotify (via Netlight)

Q4 2020 - Q1 2021

Worked as a data engineer in a multinational team at Spotify. The focus of this assignment was helping Spotify develop their data pipeline to improve their curation of core datasets.

Data Scientist - PostNord (via Netlight)

Q3 2019 - Q4 2020

PostNord is a major logistics company based in the Nordics. I worked as a data scientist and backend developer to build machine learning based route planning and time series prediction.

Backend Developer - Truecaller

Q2 2018 - Q4 2018

Truecaller is a Swedish software company that provides dialer identification and payments in many different countries. I worked as a backend developer in their search team.

Publications

[Vakili, T., Lamproudis, A., Henriksson, A., & Dalianis, H. \(2022\).](#) Downstream Task Performance of BERT Models Pre-Trained Using Automatically De-Identified Clinical Data. *Proceedings of the Thirteenth Language Resources and Evaluation Conference*, 4245–4252.

[Bridal, O., Vakili, T., & Santini, M. \(2022\).](#) Cross-Clinic De-Identification of Swedish Electronic Health Records: Nuances and Caveats. *Proceedings of the Workshop on Ethical and Legal Issues in Human Language Technologies and Multilingual De-Identification of Sensitive Data In Language Resources within the 13th Language Resources and Evaluation Conference*, 49–52.

[Dolk, A., Davidsen, H., Dalianis, H., & Vakili, T. \(2022\).](#) Evaluation of LIME and SHAP in Explaining Automatic ICD-10 Classifications of Swedish Gastrointestinal Discharge Summaries. *Scandinavian Conference on Health Informatics*, 166–173.

[Jerdhaf, O., Santini, M., Lundberg, P., Bjerner, T., Al-Abasse, Y., Jonsson, A., & Vakili, T. \(2022\).](#) Evaluating Pre-Trained Language Models for Focused Terminology Extraction from Swedish Medical Records. *Proceedings of the Workshop on Terminology in the 21st Century: Many Faces, Many Places*, 30–32.

[Vakili, T., & Dalianis, H. \(2022\).](#) Utility Preservation of Clinical Text After De-Identification. *Proceedings of the 21st Workshop on Biomedical Language Processing*, 383–388.

[Vakili, T. and Dalianis, H., 2021.](#) Are Clinical BERT Models Privacy Preserving? The Difficulty of Extracting Patient-Condition Associations. In *Proceedings of the AAAI 2021 Fall Symposium on Human Partnership with Medical AI: Design, Operationalization, and Ethics*.

[Vakili, T., 2020.](#) A Method for the Assisted Translation of QA Datasets Using Multilingual Sentence Embeddings. Presented at the workshop on *RESOURCES and representations For Under-resourced Languages and domains*.

Teaching

Internet Search Techniques and Business Intelligence

Q3 2022 -

I am a lecturer and lab examiner in this master level course. My lecture is about opinion mining and sentiment analysis and I also examine and develop the labs in the course.

Language Technology

Q3 2022 -

I teach a bachelor level course about language technology. My duties include examining lab assignments as well as giving a lecture about lexical resources.

Natural Language Processing

Q1 2021 -

I am a teacher in the natural language processing course which is given to master students in my department. My responsibilities include holding a lecture on deep learning in NLP as well as designing and examining lab assignments and project reports.

Digital Business Strategies and Change Management

Q4 2020 - Q1 2021

I was a teaching assistant in a course on digital management in which I was responsible for grading essays and presentations.

Information Retrieval

Q1 2019 - Q2 2019

During my studies at KTH, I was a teaching assistant in a course on information retrieval. I was responsible for grading lab assignments and helping students understand the material.