Lucas Lange

Researcher · PhD Student

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Experience

Leipzig University   *Leipzig, Germany*
Researcher (Wissenschaftlicher Mitarbeiter)   *Mar. 2022 - Present*
- Research in "Privacy-Preserving Data Analysis (Machine Learning)" as a PhD student.
- Conducting and supervising computer science courses at Leipzig University, especially in the field of databases and data science.

ScaDS.AI Dresden/Leipzig   *Leipzig, Germany*
Researcher (Wissenschaftlicher Mitarbeiter)   *Mar. 2022 - Present*
- Affiliation within the scope of my position at Leipzig University.

InfAI - Institute for Applied Informatics   *Leipzig, Germany*
Research Assistant (WHK)   *Oct. 2019 - Feb. 2020*
- Working on the ShapBiRd project, an effort to create a linked data infrastructure and workflow for the institute's bibliography.

eccenca GmbH   *Leipzig, Germany*
Software Developer   *Jun. 2018 - Apr. 2019*
- Specification and implementation of a visual editor for linked data knowledge graphs (Bachelor Thesis).

InfAI - Institute for Applied Informatics   *Leipzig, Germany*
Student Assistant (SHK)   *Jul. 2017 – Apr. 2018*
- Assisting in the open-source SlideWiki EU Project and tutoring an agile software engineering student project at Leipzig University

Education

Leipzig University   *Leipzig, Germany*
Ph.D. in Computer Science   *Mar. 2022 - Present*
- Topic: Privacy-Preserving Data Analysis (Machine Learning).

Leipzig University   *Leipzig, Germany*
M.Sc. in Computer Science   *Apr. 2019 - Jan. 2022*
- Thesis: Privacy-Preserving Detection of COVID-19 in X-Ray Images (at ScaDS.AI Dresden/Leipzig).

Université Grenoble Alpes (UGA)   *Grenoble, France*
Erasmus+—M.Sc. in Computer Science   *Sep. 2020 - Jun. 2021*
- Courses in Machine Learning and Robotics.

Leipzig University   *Leipzig, Germany*
B.Sc. in Computer Science   *Oct. 2015 - Mar. 2019*
- Thesis: Visual Editor Based on SHACL Shapes (at eccenca GmbH).

Publications

Privacy-Preserving Sentiment Analysis on Twitter
Felix Vogel and **Lucas Lange**, In: under review at SKILL 2023
🔗 under review, not yet published   🐙 github.com/felix2246/dp-sent-analysis-twitter

Privacy-Preserving Stress Detection Using Smartwatch Health Data
Lucas Lange, Borislav Degenkolb and Erhard Rahm, In: 4. Privacy & Security at Large Workshop, INFORMATIK 2023
🔗 accepted, not yet published   🐙 github.com/BDegenkolb/Privacy-Preserving-Stress-Transformer

Privacy in Practice: Private COVID-19 Detection in X-Ray Images
Lucas Lange, Maja Schneider, Peter Christen and Erhard Rahm, In: 20th International Conference on Security and Cryptography, SECRYPT 2023
🔗 accepted, not yet published   🐙 github.com/luckyos-code/mia-covid

Privacy in Practice: Private COVID-19 Detection in X-Ray Images (Extended Version)
Lucas Lange, Maja Schneider, Peter Christen and Erhard Rahm, In: Extended preprint of accepted paper from SECRYPT 2023
🔗 arxiv.org/abs/2211.11434   🐙 github.com/luckyos-code/mia-covid

SentArg: A Hybrid Doc2Vec/DPH Model with Sentiment Analysis Refinement
Christian Staudte and **Lucas Lange**, In: CLEF 2020 Working Notes
🔗 ceur-ws.org/Vol-2696/paper_191.pdf   🐙 github.com/luckyos-code/ArgU