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 *Sep. 2023*
Felix Vogel and **Lucas Lange**, In: SKILL 2023
accepted, not yet published — github.com/felix2246/dp-sent-analysis-twitter

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

Privacy at Risk: Exploiting Similarities in Health Data for Identity Inference *Aug. 2023*
Lucas Lange and Tobias Schreieder and Victor Christen and Erhard Rahm, In: arXiv preprint (under review)
arxiv.org/abs/2308.08310 — github.com/tobiasschreieder/smartwatch-dtw-attack

Privacy in Practice: Private COVID-19 Detection in X-Ray Images *Jul. 2023*
Lucas Lange, Maja Schneider, Peter Christen and Erhard Rahm, In: 20th International Conference on Security and Cryptography (SECRYPT 2023)
doi.org/10.5220/0012048100003555 — github.com/luckyos-code/mia-covid

Privacy in Practice: Private COVID-19 Detection in X-Ray Images (Extended Version) *Nov. 2022*
Lucas Lange, Maja Schneider, Peter Christen and Erhard Rahm, In: Extended arXiv preprint of SECRYPT 2023 paper
arxiv.org/abs/2211.11434 — github.com/luckyos-code/mia-covid

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