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 Stress Detection Using Smartwatch Health Data

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 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)

- scitepress.org/PublicationsDetail.aspx?ID=UnmHswKdjFk=   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