



MARTIN LEINBERGER

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EDUCATION

Ph.D., Computer Science
University of Koblenz-Landau
2013-2020

M. Sc. Computer Science
University of Koblenz-Landau
Grade: 1,2 2011-2013

B. Sc. Computer Science
University of Mainz
Grade: 1,4 2007-2011

EXPERTISES

- Java, C#, Python
- Scala, F#
- Prolog
- MySQL
- CouchDB
- Graph databases (e.g. Stardog)
- Apache Spark
- Data Integration
- Knowledge Graphs / Ontologies
- Unity3D

EXPERIENCE

Research Engineer
Bosch Corporate Research, Robert Bosch GmbH | Apr. 2021-Present
Support in knowledge and data engineering for various Business Units.

Research Employee, Akademischer Rat (since Apr. 2020)
Inst. for Web Science, University of Koblenz-Landau | Nov. 2013-Mar. 2021
Research focused on programming with semantic graph data.

Intern at TPC Development
IBM Research & Development GmbH, Mainz | Aug. 2009-Oct. 2009
Worked on setting up a virtual Scale-out File Services (SoFS) cluster.

DISSERTATION

Type-safe Programming for the Semantic Web
Advised by Prof. Dr. Steffen Staab and Prof. Dr. Ralf Lämmel
Investigates type-checking programs working semantic graph data.

TEACHING

Big Data | Lecture (2020, 2021)
Course includes Cloud Computing, Apache Spark, OLAT, and NoSQL.

Artificial Intelligence | Tutorials (2015-2019)
Course includes knowledge representation, Prolog, planning, and MAS.

Algorithms and Data structures | Lecture (2020), Tutorials (2013-2018)
Course includes dynamic data structures and graph algorithms.

SELECTED PROJECTS

- **Global Search:** Data Integration and Search over various source systems.
- **Label Mapping:** Finding semantically equivalent labels (e.g., variable names) in evolving ECU software.
- **Agri-Gaia:** Developing an platform for software service and data exchange in the agricultural domain.

SELECTED PUBLICATIONS AND INVITED TALKS

- M. Leinberger, P. Seifer, C. Schon, R. Lämmel, S. Staab. **Type Checking Program Code Using SHACL.** *Proceedings of the 18th International Semantic Web Conference (ISWC), Auckland, New Zealand, 2019.*
- M. Leinberger, S. Staab, R. Lämmel. **The Essence of Functional Programming on Semantic Data.** *Proceedings of the 26th European Symposium on Programming (ESOP), Uppsala, Sweden, 2017.*
- **Invited Talk - Big Data in Finance.** *Held on 18.10.21, part of the "Finance for Non-Financials" course, Rotterdam School Management.*