KEVIN INNEREBNER BSC.



Data Science | Machine Learning | Compilers | Software Technology

CONTACT

kevin.innerebner@gmail.com

+43 677 61671217

Steyrergasse 29/2b, 8010 Graz

kev-inn.github.io

@kev-inn

in Kevin Innerebner

EDUCATION

MSc. Computer Science

09/2021 - ongoing

Graz University of Technology, Graz

Erasmus+ Student Exchange

1 01/2022 - 05/2022

University of Jyväskylä, Jyväskylä **Finland**

BSc. Computer Science

10/2021 10/2021

Graz University of Technology, Graz

SKILLS

Programming Languages

C, Python, Java, C# C++, R, SQL, Javascript Julia, Rust

Software & Tools

Data handling/analysis

(e.g. numpy, scipy, pandas, ...)

Apache SPARK

Languages

Git

German **English**

HONOURS AND AWARDS

- Dean's List 2022
- Dean's List 2020
- P Dean's List 2019 https://www.tugraz.at/fakultaeten/ csbme/studies/deans-list/
- CEOI 2018 Team Austria https://ceoi2018.pl/teams/

WORK HISTORY

(Research Assistant

6 06/2022 - 07/2022

Graz University of Technology

Continuation of Research Assistant position

(E) Tutor

10/2019 - 07/2020

Teaching students C and C++.

(Research Assistant

| 12/2021 | 12/2021 |

Work on various research projects. See Projects.

PROJECTS

</>

11/2020 - 07/2022

https://daphne-eu.eu

Graz University of Technology, Graz w/ MLIR, LLVM, C++, SIMD, ANTLR4

- MLIR-based compiler for Data Analysis and Machine Learning pipelines.
- EU-funded project with 13 members.
- Prototype and experimental feasibility study as BSc. thesis.
- https://github.com/daphne-eu/daphne
- See Publications.

</> ExDRa

1 07/2019 - 07/2022

https://www.exdra.de/

Graz University of Technology, Graz w/Spark, Hadoop, Java, Python

- Exploratory data science on federated raw data
- Shared project with Siemens, TU Graz, DFKI and TU Berlin
- See Publications.

</> SystemDS

1 07/2019 - 07/2022

https://systemds.apache.org/

Graz University of Technology, Graz w/ Spark, Hadoop, Java, Python

- ML system for the end-to-end data science Lifecycle.
- Worked on various components (Federation, Tensors, Python-API, ...).
- https://github.com/apache/systemds
- See Publications.

PUBLICATIONS

Federated Data Preparation, Learning, and Debugging in Apache SystemDS

醬 S. Baunsgaard, M. Boehm, **K. Innerebner**, M. Kehayov, F. Lackner, O. Ovcharenko, A. Phani, T. Rieger, D. Weissteiner, S. B. Wrede

🛗 2022 🗐 CIKM 2022 💲

DAPHNE: An Open and Extensible System Infrastructure for Integrated Data Analysis Pipelines

P. Damme, M. Birkenbach, C. Bitsakos, M. Boehm, P. Bonnet, F. Ciorba, M. Dokter, P. Dowgiallo, A. Eleliemy, C. Faerber, G. Goumas, D. Habich, N. Hedam, M. Hofer, W. Huang, K. Innerebner, V. Karakostas, R. Kern, T. Kosar, A. Krause, D. Krems, A. Laber, W. Lehner, E. Mier, M. Paradies, B. Peischl, G. Poerwawinata, S. Psomadakis, T. Rabl, P. Ratuszniak, P. Silva, N. Skuppin, A. Starzacher, B. Steinwender, I. Tolovski, P. Tözün, W. Ulatowski, Y. Wang, I. Wrosz, A. Zamuda, C. Zhang, X. X. Zhu

2022 ■ CIDR 2022

ExDRa: Exploratory Data Science on Federated Raw Data

S. Baunsgaard, M. Boehm, A. Chaudhary, B. Derakhshan, S. Geißelsöder, P. Marian Grulich, M. Hildebrand, K. Innerebner, V. Markl, C. Neubauer, S. Osterburg, O. Ovcharenko, S. Redyuk, T. Rieger, A. R. Mahdiraji, S. B. Wrede, S. Zeuch

SystemDS: A Declarative Machine Learning System for the End-to-End Data Science Lifecycle

M. Boehm, I. Antonov, S. Baunsgaard, M. Dokter, R. Ginthör, K. Innerebner, F. Klezin, S. Lindstaedt, A. Phani, B. Rath, B. Reinwald, S. Siddiqi, S. B. Wrede