



Jonas Sievers

I am a **Ph.D. student** at the Karlsruhe Institute of Technology, focusing on machine learning applications in energy systems. In my research, I explore various machine learning techniques, including **federated learning**, **reinforcement learning**, and **time series forecasting**, to improve industrial energy management systems.

Contact

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LinkedIn

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GitHub

<https://github.com/JonasSievers>

Website

<https://jonassievers.github.io/>

Skills

Languages

German (native), English (fluent),
Spanish (fluent), French (basic)

Programming

Python (advanced), TensorFlow
(advanced), Java (good)

Honors and Social commitment

“Netze BW” Scholarship

Sponsorship for outstanding master's students within the energy industry (€ 3,000 + Mentoring)

Head of Department “Education for Refugees” association

Helping refugees to continue their education and enter the labor market
- Awards: Google Impact Challenge, Heinz Kappes Prize

Education

- 04.2022 - Today **Ph.D. student** at Karlsruhe Institute of Technology (KIT), Institute for Data Processing and Electronics (IPE)
- **Research Focus:** Machine Learning in Energy System
 - **Last publication:** Secure short-term load forecasting for smart grids with transformer-based federated learning
 - **Current research:** Advancing Accuracy in Load Forecasting using Mixture-of-Experts and Federated Learning
- 11.2019 - 04.2022 **M.Sc. Industrial Engineering, Karlsruhe Institute of Technology (Grade: 1,6)**
- Focus: Machine Learning, Data Science, Energy systems
- 10.2015 - 11.2019 **B.Sc. Industrial Engineering, Karlsruhe Institute of Technology (Grade: 2,4)**
- Focus: Energy Informatics
 - **Study abroad (1 year):** Universidade da Coruna (Spain)
- 08.2014 - 10.2015 **Voluntary social year (Peru):** Teaching English
- 08.2006 - 08.2014 **General university entrance qualification (Grade: 1,7)**

Experience

- 04.2022 - Today **Co-founder and shareholder, “Chargetic GmbH”**
- Development of smart charging and load management software for apartment buildings
 - Scholarship German Federal Environmental Foundation: € 125,000
 - Learn more: <https://chargetic.de/>
- 11.2019 - 04.2022 **Assistant to the head of the gas department, working student at “EnBW AG”**
- Corporate gas strategy, investment management, controlling, mergers and acquisitions
- 10.2015 - 11.2019 **Research assistant in the field smart grids, Karlsruhe Institute of Technology**
- LAMP research project: Local and decentralized energy market with 20 households, data mining and analysis of load profiles, energy market design and study of participants' acceptance of the pricing mechanisms
- 09.2014 - 09.2015 **Software developer, internship “Krumedia GmbH”**
- Development of a scalable and IOT-enabled energy management system, programming of a data import interface