

Roland Saur

About Me

Software Developer with Research Background.

Curious and driven to learn new skills and concepts.

Appreciate a diverse international work environment.

Technologies

Python: Scipy, Pandas/Polars, Pydantic, Pytest, Hypothesis

Cloud: AWS-CDK, Terraform, Github-Actions

General: Git, , SQL, Bash, Regex

Personal Projects

Better Sampling  using Python, Generators

Generative Art  using Rust, Nannou

Knapsack Solver  using Python, Pydantic, Pytest

Contact

 Amsterdam, The Netherlands

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 GitLab

 Hackerrank

 LinkedIn

Experience

» **Python Developer** at Alliander, Amsterdam
(06/2024 - Current)
Technologies: Python, AWS-CDK, Git, SQL, CI/CD

» **Python Developer** at Albelli, Amsterdam
(01/2023 - 05/2024)
Technologies: Python, AWS, Terraform, SQL, CI/CD

» **PhD Candidate** at CWI, Amsterdam
(09/2017 - 05/2022)
Technologies: Python, git, Optimization, Modelling, HPC

» **Research Scientist** at FAU, Busan South-Korea
(03/2016 - 04/2017)

Education

» **M.Sc. Sustainable Energy Technology** (2013 - 2015)
Technical University Delft (Grade: 8.3 out of 10)

» **B.Sc. Erneuerbare Energien** (2011 - 2013)
University of Stuttgart (Grade: 1.7 on 4-1 scale)

Continuous Learning(Courses)

» Technical

- › **LFS158x: Introduction to Kubernetes** EDX (05/2024)
- › **LFS151.x: Introduction to Cloud Infrastructure Technologies** EDX (04/2024)
- › **PostgreSQL for Everybody** Coursera (08/2022)
- › **Algorithms Specialization** Coursera (04/2021)
- › **Algorithmic Game Theory** LNMB (06/2018)

» Non-Technical

- › **Writing a Scientific Article** Taalcentrum - VU (11/2018)
- › **The Art of Presenting Science** Artesc (12/2017)

Publications

- Roland Saur, Han La Poutré, and Neil Yorke-Smith. Incentives for accurate energy predictions: How to reduce epistemic uncertainty. In *Proceedings of the 15th ACM International Conference on Future and Sustainable Energy Systems*, e-Energy '24, page 192–202, New York, NY, USA, 2024. Association for Computing Machinery
- Roland Saur, Han La Poutré, and Neil Yorke-Smith. Fair pricing for time-flexible smart energy markets. *Proceedings of the International Joint Conference on Autonomous Agents and Multiagent Systems*, AAMAS, 2023-May:2703–2705, 2023
- R. Saur, Johannes A. La Poutré, and N. Yorke-Smith. Towards optimal demand-side bidding in parallel auctions for time-shiftable electrical loads. *2020 IEEE 18th International Conference on Industrial Informatics (INDIN)*, 1:340–347, 2020
- R. Saur, N. Yorke-Smith, and Han La Poutré. Combined heat and power markets by double-sided auction mechanisms. *2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe)*, pages 1–5, 2019
- José Alberto Rodríguez Agudo, S. Kwon, R. Saur, Soebiakto Loekman, G. Luzi, Cornelia Rauh, Andreas Wierschem, and Antonio Delgado. Flows due to pressure induced dissociation-formation of gas hydrates. 2017
- Amineh Ghorbani, Roland Saur, Igor Nikolic, Martijn Groenleer, and Paulien Herder. Smart grids as common-pool resources: managing electrical vehicle charging through evolving institutions. In *IASC-conference on Urban Commons, Bologna, Italy*, 2015
- Ahmad Abdel-Majeed, Christoph Kattmann, Stefan Tenbohlen, and Roland Saur. Usage of artificial neural networks for pseudo measurement modeling in low voltage distribution systems. In *2014 IEEE PES General Meeting| Conference & Exposition*, pages 1–5. IEEE, 2014