6+ years of work experience in Data Science, with a wide range of machine learning algorithm types in processing and analysis of both geospatial and time-series data. Now striving to explore various business problems in sustainability with my strong analytical skills and domain curiosity.

Anqi Li

PROFILE

Currently a student of behavioural economics at the Physiological Institute. Ph.D. in Applied Physics and Mathematics. M.Sc in Sustainability. Passionate about tackling complex problems, yet can simplify the issue when explained to others such as school pupils. Others say I make good presentations and learn things quickly.

EXPERIENCE

Senior Data Scientist

Vala Solutions, Gothenburg, 2023/09-

- Predict the expected usage and real-time optimisation of the energy system
- AI-powered software Vala Energy to reduce energy consumption in residential buildings (Unfortunately, due to an external event, the company has declared bankruptcy).

Experienced Data Scientist

Volvo Group Truck Technology, Gothenburg, 2022/05-2023/08

- Leading R&D projects on edge-computing technology on electro-mobility, including onboard processing technique and system integration
- Investigated online learning and federated learning techniques on energy prediction and anomaly detection models

Ph.D. in Remote Sensing Division

Chalmers University of Technology, Gothenburg, 2017/06-2022/05

- Research (80%)
  - Data science in image analysis, implementing statistical methods, and extracting trends and anomalies.
  - Specialised in optical and near-infrared imaging techniques.
  - Specialised in Bayesian estimation method to retrieve 20 years of global O_3 and OH data sets from the Odin satellite.
  - Employ tomographic techniques to reconstruct 2D/3D wave structures in the atmosphere.

CONTACT

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FIELDS

- Bayesian statistical modelling
- Data Science/Engineering
- Physics and Mathematics
- Remote Sensing
- Teaching
- Project Management

TECHNOLOGIES

- Python ★★★★★
- Shell ★★★★★
- SQL ★★★★
- Git ★★★★

ACTIVITIES

OPERATING SYSTEMS

LANGUAGE

Fluent in writing and speaking

Basic reading and listening

- Teaching (20%)
  - Numerical Analysis in Physics with Python (BSc. course)
  - Science of Environmental Change (M.Sc. course)
  - Master thesis supervision in modelling ozone dynamics

Internship abroad

Foschungszentrum Jülich GmbH, Jülich, 2014/08-10

- Data collection in various research experiments within the Plant Science Department
- Learnt basic German language

Project Assistant

Mitsubishi Research Institute, Tokyo, 2012/01-2013/12

- Analysed marketing materials on tourism in English, Chinese and Japanese
- Analysed Chinese social media commentary on Japanese earthquakes as well as the fishing industry

EDUCATION

Ph.D. in Radio and Space Science

Chalmers University of Technology, 2017-2022

- Data processing and analysis in the field of aeronomy
- Courses: Remote Sensing, Bayesian Statistics, (Sensors) Measurement Techniques ...

M.Sc. Industrial Ecology

Chalmers University of Technology, 2015-2017

- Major in climate, environmental and societal complex problems
- Courses: Geographical Information Systems (GIS), Satellite Positioning, Fluid Dynamics, ...

B.Sc. Mechanical Engineering

Tokyo Institute of Technology, 2011-2015

- Thesis "ML: auto-classification of horizontal wind patterns observed by Doppler LiDAR"
- Courses: Mathematics, Physics, Fluid & Solid Mechanics, Quantum Mechanics, Programming...

REFERENCES

References provided on request.

OTHER INTERESTS

Most recently, I started a part-time course about behavioural economics at the Psychological Institute of Gothenburg University. Course code: PX2115 (link).
I started to sell/buy plant seedlings (cuttings) on Tradera (a Swedish online auction market) as a plant hobbyist. I find it interesting to analyse the plant market trend, as well as the consumer behavioural patterns such as the increasing trading activities shortly after the salary pay-day in each month, and the decreasing activities during the summer months. The auction theory itself is interesting and complex, yet broadly applied to our everyday life (e.g. online ads).