Anqi Li

With 6+ yrs of experience in processing and analysis of geospatial earth-observational data and time-series data both in industry and in academia. 4 yrs of participation in teaching and supervision, where I developed communication and leadership skills.
Now striving to explore business problems in sustainability using my analytical, data-driven mindset.

PROFILE

Ph.D. in Earth science and remote sensing with a strong focus on 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, 2022/09

- AI-powered software Vala Energy to reduce energy consumption in residential buildings
- Predict the expected usage and real-time optimisation of the energy system

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 experience in image analysis, visualisation of large datasets, implementing statistical methods, 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).