»» With 5 years experience of processing and analysing a large volume of satellite data in Python, and 4 years experience of pedagogic activities where I develop communication and interpersonal skills. Now looking for a new role to work with exciting data outside of academia where I get the opportunity to experience the real-life business problems in various industries and to develop my data skills with a cross-functional team.

Anqi Li

STATUS

Expected to complete the Ph.D. degree in 2022 and looking forward to a career change. I like to tackle complex problems, yet can simplify the issue when explain to others. I have a strong science and engineering background, but also a great interest in business and social economics. According to others, I am result-oriented, adaptive, well-organised, creative and have an analytical mindset.

EXPERIENCE

Doctoral Candidate   Chalmers University of Technology, Gothenburg , 2017/06-now

» Research (80%)

- Using Python to build data processing pipelines: extract and store data, optimisation modelling, statistical analysis, data validation and visualisation, as well as to construct chemical models in kinetics and dynamics.

- Specialised in mesospheric O_3, OH and $O_2(a^1\Delta_g)$ data sets retrieved from OSIRIS (using Bayesian estimation method).

- Distributed data on https://doi.org/10.5281/zenodo.4746506 (Open access)

- Presented in 9 international conferences, 3 research visits in Canada, Norway and Germany, and participated in popular science campaign with Swedish elementary school pupils (PRAO).

- Project management of my own research project.

» Teaching (20%)

- Numerical Analysis in Physics with Python (BSc. course)

- Science of Environmental Change (M.Sc. course)

- Master thesis supervision in atmospheric modelling of ozone chemistry

CONTACT

- Gothenburg, Sweden
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- in ankiki-li
- iD 0000-0002-3697-657X

FIELDS

- Data Science/Engineering
- Bayesian statistical modelling
- Physics and Mathematics
- Communication and Education
- Project Management

TECHNOLOGIES

- Python ★★★★★
- Shell ★★★★★
- SQL ★★★
- Git ★★★
- R ★★
- Latex ★★★★★
- VS Code ★★★★★

ACTIVITIES

OPERATING SYSTEMS

LANGUAGE

Fluent in writing and speaking

🇨🇳 🇯🇵 🇬🇧

Basic reading and listening

🇸🇪 🇩🇪

Intern Forschungszentrum Jülich GmbH, Jülich ,
2014/08-10

❱ Assisted in various plant experiments in the lab (greenhouse)
❱ Learnt basic German language

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

❱ Investigated marketing materials on tourism between English, Chinese and Japanese
❱ Investigated Chinese social media commentary on Japanese earthquakes as well as the export industry

Project Assistant Jugemu Digital Processing Company, Tokyo ,
2011/06 - 2013/12

❱ Processed digital image in magazine digitising projects
❱ Edited database of several Japanese economic/financial magazines for the digital library project

❱❱❱ EDUCATION

Ph.D. (candidate) in Radio and Space Science. Chalmers University of Technology,
2017-(2022)

❱ Data analytic of OSIRIS (satellite). Working with multiple international collaborations in distance.
❱ Lic. thesis "New perspectives on mesospheric wave dynamics and oxygen photochemistry"

M.Sc. Industrial Ecology Chalmers University of Technology, 2015-2017

❱ Subject in climate, environmental and societal (complex) problems
❱ Thesis "A 3D-model for O_2 airglow perturbations induced by gravity waves in the upper mesosphere"

B.Sc. Mechanical Engineering Tokyo Institute of Technology, 2011-2015

❱ Focus on fluid mechanics within International Development Engineering department
❱ Thesis "Auto-classification of horizontal wind patterns observed by Doppler LiDAR"

Semester Abroad Linköping University, 2014/01-06

❱ Six months of study and trans-cultural experience in Linköping
❱ Learnt environmental physics, Nordic technology history, basic Swedish

❱❱❱ REFERENCES

References provided on request.

❱❱❱ OTHER INTERESTS

Equality issues, behavioural science, design, plant science, cultural exchange, work-life balance.