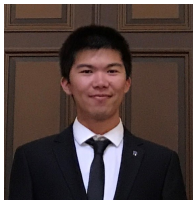


SHUNAN FENG

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Spatial Analysis



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@Shunan Feng



Google Scholar

WORK EXPERIENCE

12/2020 – present **PhD student in Deep Purple project.**

Aarhus University, Denmark

2019 -- 2020

Remote Sensing and GIS Associate

International Committee of the Red Cross, Switzerland

- Processing and analyzing remote sensing imagery (Digital Globe, Airbus, drone image etc.) in landcover change, population estimation.
- Organize internal training of geospatial data analysis.
- Producing webmaps and supporting emergency response to humanitarian crisis.

ArcGIS Pro/Online / Google Earth Engine / Python / Pix4D/OpenDroneMap

EDUCATION

12/2020 – present **PhD student**

Aarhus University, Denmark

Micro, meso- and macro-scale variability of the albedo of rotting ice surfaces in the Dark Zone of the Greenland Ice Sheet

2017 – 2019

MSc in Earth Science

Uppsala University, Sweden

Thesis: Cold Surface Layer Dynamics of Storglaciären, Northern Sweden 2009-2019

MATLAB / Google Earth Engine / LaTeX / Git GitHub

2013 – 2017

BSc in Physical Geography

Central China Normal University, China

Thesis: Retrieval of Chlorophyll-A Concentration from 30-year Landsat Imagery in Erhai, China.

ENVI/IDL / ArcGIS

PUBLICATION AND CONFERENCE

• Peer Reviewed Article:

1. Tan, W., Liu, P., Liu, Y., Yang, S., **Feng, S.**, 2017. A 30-Year Assessment of Phytoplankton Blooms in Erhai Lake Using Landsat Imagery: 1987 to 2016. Remote Sensing 9, 1265. <https://doi.org/10.3390/rs9121265>

• Conference:

1. **Feng, S.** and Pettersson, R., 2019. Surge Type Glacier Identification on Northeast Spitsbergen, Svalbard from Landsat Imagery 1984-2018 (poster EGU2019-135)
2. Fileni, F., **Feng, S.**, Erikson, T., Winterdahl, M., Pettersson, R., Spatial and temporal analysis of vegetation response to meteorological droughts in California, 1984-2018 (poster EGU2019-19137)

SKILLS

MATLAB ██████████
Google Earth Engine ██████████
Python ██████████
ENVI/IDL ██████████

GIS ██████████
LaTeX ██████████
R ██████████

ACADEMIC EXPERIENCE

11/2018 – 01/2019 **Drought analysis with Google Earth Engine**

manuscript will be submitted to a peer-reviewed journal

Uppsala University, Sweden

- Investigating vegetation response to meteorological drought.
- Spatial correlation of SPEI and NDVI anomalies in Google Earth Engine.

MATLAB / Google Earth Engine / R(SPEI)

06/2018 – 04/2019 **Cold Surface Layer Dynamics**

Degree Project Fieldwork

Tarfala Research Station, Sweden

Fieldwork: Measure the glacier subsurface temperature by manufacturing and installing a thermistor string in the ablation zone of Storglaciären.

Thermistor String installation / Glaciology / Geophysical Survey

03/2018 – 04/2019 **Glacier Surface Velocity Reconstruction**

Uppsala University, Sweden

- Derive glacier surface velocity from Landsat series imagery. Historical surge events are identified by the reconstructed glacier surface velocity.

- Image processing (cloud detection, georeferencing by a discrete fast Fourier transform); surface feature track (COSI-CORR).

MATLAB / ENVI/IDL

03/2017 – 08/2017 **Erhai Lake Project**

Continuation of bachelor's thesis

Central China University

Retrieve chlorophyll-a (Chl-a) concentration from Landsat imagery using a modified three-band model. Algorithm experiment using ENVI/IDL. (Continuation of bachelor thesis)

ENVI/IDL / ArcGIS

SCHOLARSHIPS AND AWARDS

2018 – 2019

Linnaeus Scholarship (12,700 SEK), Otterborg Stipend (15,000 SEK), Jänes Scholarship (3,700 SEK)

Uppsala University

Research and Travel Scholarship for conducting thesis fieldwork

2017

Uppsala University IPK Scholarship

Uppsala University

cover all tuition fee (290,000 SEK)

2014 – 2016

Shuren Silver Scholarship (2014) and Boya Scholarship (2015, 2016) Central China Normal University

LANGUAGES

Chinese - native

English - proficient

CURRENT STATUS

Currently interested in machine learning and tensorflow. Also practicing interactive data visualization with python modules (e.g. altair, plotly etc.).