MALLORY WITTWER

MATERIALS ENGINEER | DATA SCIENTIST | WEB DEVELOPER

📇 26/05/1994

📍 La Chaux-de-Fonds

➕ Swiss

CONTACT

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in /in/m-wittwer

 MalloryWittwer

PORTFOLIO

mallorywittwer.github.io

SKILLS

Python • Ruby • Javascript
Flask • Rails • React
HTML5 • CSS • SQL
Numpy • Pandas
Matplotlib • Seaborn
Scikit-learn • Tensorflow
Dash • D3.js • Three.js
Github • Heroku • Blender

LANGUAGES

FR - Native language
EN - Full proficiency
DE - Basic level

INTERESTS

🏔 Rock climbing

🍃 Sustainability

📦 3D Graphics

EDUCATION

Full-stack web development Bootcamp
Le Wagon - Renens VD (CH)   Dec 2021

Certificate in Data Science and Machine Learning
EPFL Extension School - Lausanne (CH)   Oct 2018

Master's degree, Materials Science and Engineering
EPFL - Lausanne (CH)   Mar 2018

EXPERIENCE

RESEARCH ASSOCIATE

Nanyang Technological University, Singapore | Dec 2018 - Aug 2021

- Led research in computer vision applied to microscopy; developed a technique to reduce the cost and time of crystal orientation mapping. Published results in the peer-reviewed journal npj Computational Materials (1st authorship, 2022).
- Led research in self-supervised grain segmentation. Published results in the peer-reviewed journal Materials Characterization (1st authorship, 2021).
- Developed software for visualizing and manipulating complex scientific data (e.g. 4D microscopy images).
- Carried laboratory work (chemical handling, metallography, microscopy).
- Presented research at scientific conferences (ICMAT 2019, MS&T 2019).

INTERN

CSEM, Switzerland | Sep 2017 - Feb 2018

- Conceptualized and developed 3D printable flexible piezoelectric actuators.

INTERN

European Space Agency (ESA), Netherlands | Mar 2017 - Aug 2017

- Carried investigation of high-performance polymers for space applications.

VOLUNTEERING

Developing mini scientific web apps
- All projects are available at mallorywittwer.github.io.   2022

World Policy Center | Global Climate Law Repository
- Writing Python web scrapers to gather data on climate laws worldwide.   2021

Fauna Forever | Amazon Wildlife Conservation
- Monitoring wild species in the Peruvian Amazon (Madre de Dios).   2016