






# MALLORY WITTWER

MATERIALS ENGINEER | DATA SCIENTIST | WEB DEVELOPER

 26/05/1994


 La Chaux-de-Fonds


 Swiss

## CONTACT

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 /in/m-wittwer

 MalloryWittwer

## PORTFOLIO

mallorywittwer.github.io




## SKILLS

Ruby • Rails • Javascript  
HTML5 • CSS • PostgreSQL  
Github • Heroku • Python  
Dash • Flask • Numpy  
Pandas • Matplotlib  
Seaborn • Tensorflow  
Scikit-learn • Blender

## LANGUAGES

FR - Native language  
EN - Full proficiency

## INTERESTS

 Rock climbing  
 Sustainability  
 3D Graphics

## EDUCATION

### Full-stack development Bootcamp

Le Wagon - Renens, Switzerland

Dec 2021

### Certificate in Data Science and Machine Learning

EPFL Extension School - Lausanne

Oct 2018

### Master's degree, Materials Science and Engineering

EPFL - Lausanne

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 by 90%. Published results in the peer-reviewed journal npj Computational Materials (1<sup>st</sup> authorship, 2021).
- Led research in self-supervised grain segmentation. Published results in the peer-reviewed journal Materials Characterization (1<sup>st</sup> authorship, 2021).
- Developed softwares 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 printable flexible piezoelectric actuators.

### INTERN

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

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

## VOLUNTEERING

### Global Climate Law Repository

- Python web scrapers to gather data on climate laws worldwide

2021

### Fauna Forever | Amazon Wildlife Conservation

- Monitoring wild species in the Peruvian Madre de Dios region

2016