



MALLORY WITTWER

I am a Swiss materials scientist specialized in digitalization. I'm passionate about machine learning, web applications, and how these technologies can accelerate research and development to help make the world a better place .

26/05/1994

La Chaux-de-Fonds

Swiss

CONTACT

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click or scan



LANGUAGES

FR - Native language

EN - Full proficiency

GE - B2

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 (1st authorship, 2021).
- Led research in self-supervised grain segmentation. Published results in the peer-reviewed journal Materials Characterization (1st 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.

SKILLS

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

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