



Dr Jenny Wong

SENIOR RESEARCH SOFTWARE ENGINEER

CONTACT



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Birmingham, UK

SKILLS

Teamwork

I am a dynamic individual with an interdisciplinary ethos who enjoys forging international research collaborations.

Communication

I regularly deliver talks at industry workshops and meetings, and published 3 peer-reviewed articles.

Leadership

I manage stakeholder expectations and lead the support team of the HPC facility at the University of Birmingham.

TOOLS

Python

pandas, numpy,
scipy, matplotlib,
plotly, dash,
scikit-learn,
TensorFlow, Keras,
Django, RAPIDS,
Dask, celery

Matlab

HPC

Fortran

C++

Linux

Git

WORK EXPERIENCE

University of Birmingham, Birmingham

Senior Research Software Engineer

DECEMBER 2021 - PRESENT

- Accelerating and profiling data assimilation codes for space weather forecasts, which ingest up to 250GB per hour of data from hundreds of stations globally, and implementing interactive, web-based visualisations.
- Providing data engineering and deep learning training for researchers, and general high-performance computing support.

Institut des Sciences de la Terre, Grenoble

Postdoctoral Researcher

JULY 2020 - NOVEMBER 2021

- Developed a model of differential equations describing the physics of phase change and compaction of a solid-liquid system, and solved them using finite volume methods in Python.

Institut de Physique du Globe de Paris, Paris

Postdoctoral Researcher

FEBRUARY 2019 - JULY 2020

- Ran large-scale numerical simulations solving the magneto-hydrodynamic equations describing the Earth's dynamo on high-performance computers using Fortran and OpenMP, and post-processed large data sets in Python.

EDUCATION

University of Leeds, Leeds

PhD, MSc Fluid Dynamics

SEPTEMBER 2014 - FEBRUARY 2019

Thesis: A Slurry Model of the F-Layer in the Earth's Core

University of Leeds, Leeds

MMath, BSc Mathematics

First Class Honours

SEPTEMBER 2009 - JULY 2013

First Class Honours

References available upon request.