Dr Jenny Wong

SENIOR RESEARCH SOFTWARE ENGINEER

CONTACT

07725212725

jnywong.pro@gmail.com

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

Containers

Fortran

C++

Linux

Git

SQL

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.
- Certified NVIDIA Instructor 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.