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EDUCATION

PhD in Optoelectronics - [Zepler](#)

[Institute](#), University of Southampton

Masters Degree in Physics - First Class

Honours - [University of Southampton](#)

CORE SKILLS

Python Development

Numpy, Pandas, Git, pytest, Flask,
Matplotlib, OOP, FastAPI, TDD, Trunk
Based Development

Prototyping

Creative Problem Solving, Human-
Centred Design, Collaborative Working

Frontend Development

HTML5, CSS/SCSS, Vanilla JS, Leaflet,
Svelte, Node

Writing

Papers, Reports, Blogs, Patents, LaTeX

Geospatial Analysis

GeoPandas, Rasterio, QGIS/ArcGIS,
Vector Data, Raster Data

Data Science

scikit-learn, scikit-image, NetworkX,
AzureML

Agile Methodologies

Scrum Developer, Scrum Master, MS

SOME EXPERIENCE WITH

MS Azure (Web Apps, Serverless
Functions), Docker, PyPI & Poetry

Dr Josh Pooley

DATA SCIENTIST | DEVELOPER | PROTOTYPER

I'm a data scientist, developer and prototyper based in the UK, currently working in the geospatial industry. I love learning about new technologies, being creative and getting stuck in to a new project!

EXPERIENCE

Data Scientist (Rapid Prototyping)



[Ordnance Survey](#)

January 2020 – Present

I have been a part of Ordnance Survey's Rapid Prototyping Team since its inception in 2020. This role is hugely diverse and I have developed a wide range of skills including Python development, data science, web development, human-centred design, agile development and much more!

Post-Graduate Researcher (Optoelectronics)



[University of Southampton](#)

September 2015 – December 2019

My post-graduate research was focussed on the development of high-speed sensors for deployment in harsh environments. The work was a mixture of practical lab-based experimentation, computer modelling and writing research papers.

PROJECT HIGHLIGHTS

- Technical lead for the [osdatahub](#) project
- Technical lead for the [OS Data Hub Explorer](#)
- Technical lead for the [OS Heat Data prototype](#)
- Presented COVID-19 infection model to the Newton Institute,

WRITTEN WORK

- Rapid prototyping: at-home electric vehicle charging
- Graphic Design in Python Using Geospatial Data
- Fibre optic methods for measuring detonation velocity
- Detonation velocity measurements with uniform fibre Bragg gratings