

Philip James Taylor

Work History

2014-Present

Environmental Data Scientist, CEH

2008 – 2014

Spatial Scientist & Web Applications Developer, Forest Research

2007-2008

GIS Operations Engineer, Farrer Consulting

Education

MSc (Taught) Geographical Information Science

University of Edinburgh

Awarded 2007 – with Distinction.

BSc Geography (Hons)

University of Edinburgh

Awarded 2006.

Training & Experience

Technical

- Extensive use of a wide variety of GIS software: ArcGIS (Spatial, 3D and Geostatistical extensions), Smallworld, QGIS, FME, GRASS, GeoTools, R-raster.
- Regular use of a wide range of databases, including Oracle, Oracle Spatial, mysql, Microsoft Access, PostgreSQL, PostGIS. Experienced in relational database design, SQL querying and data management.
- Regular use of coding languages for spatial and statistical analysis: Python, ArcPy, R.
- Frequent use of numerous programming languages: Perl, Python, Java, FORTRAN.
- Experience setting up and working with code-sharing and versioning (GitHub)
- Over a decade of experience with web applications, technologies and design, including running my own web business for 6 years. HTML(4,5), CSS(2,3), JavaScript, jQuery, Java, Perl, php, XML, RSS.
- Good experience with various spatial web technologies: OpenLayers, Geoserver, GeoTools, PostGIS, Google Maps API.
- Regular handling, analysis and interpolation of large datasets, including climate projections (UKCIP02, UKCP09, 11-RCM), land cover (LCM2007), soil data (JHI, soil sample data), forestry data and mapping data (MasterMap, OSM, remote sensing)
- Consistent use of Quality Assurance and metadata creation, including INSPIRE and ISO 19115 / 19139.
- Experienced user of Windows and Linux (Ubuntu, Scientific Linux) in both client and server settings.
- Advanced user of various data management programs: Excel (including VB), Calc, Textpad.
- Regular use of Excel, R and Illustrator producing journal-quality graphical output.

Communication

- Presented drought risk work at the European Forest Institute Conference in Bordeaux, 2013.
- Presented ecological modelling work at the Forest Research Update Conference, 2013.
- Set up and manage the GIS Users Group at Forest Research.
- Experience leading and managing work areas and research projects.
- Peer-reviewed journal papers, EU project book contributions, technical reports.
- Presented research to MSPs, UK government ministers, DEFRA, BBSRC.
- Set up and manage the recording system for Forest Research's Technical Seminars and live webinars.

Recent Academic Publications

- "A new methodology for forest wind risk modelling: development and validation" - Hale, S. et al. (2015), Environmental Modelling and Software
- "Comparing the provision of ecosystem services in plantation forests under alternative climate change adaptation management options in Wales" - Ray, D. et al. (2014), Regional Environmental Change.
- "Adapting European forest management to climate change: Institutional barriers and opportunities" (in review) - Bouriaud, L. et al. (2014), Regional Environmental Change.