JOSEPH TURNER

💻 PROFESSIONAL EXPERIENCE

Principal Specialist: Data Analytics
Present | 2021

The Biodiversity Consultancy   📍 Cambridge, GBR

- Work directly with (large) businesses to help them set biodiversity and sustainability targets.
- Use a combination of large datasets and analysis workflows to assess biodiversity risk and quantify biodiversity impacts across complex supply chains.
- Provide technical support and knowledge to initiative such as the Taskforce on Nature-related Financial Disclosures (TNFD) and the Science-Based Targets Network (SBTN).
- Biodiversity and deforestation risk analysis to identify priority areas in supply chains for companies to consider to reach their sustainability commitments.
- Big data analysis and visualisation to automate analyses and produce appropriate results for companies to present and interpret results to specialists and the c-suite.
- Development of new methods and metrics in-house and in collaboration with partner organisations (e.g. NGO's) and wider networks (e.g. Science-Based Targets Network) to acheive biodiversity goals.
- Technical development of junior staff to implement automated methods across the organisation.

Programme Officer (Business and Biodiversity Team)
2021 | 2020

UNEP World Conservation Monitoring Centre (WCMC)   📍 Cambridge, GBR

- Technical lead for the Proteus partnership to provide private sector companies with access to global biodiversity data and tools.
- Chair of the Integrated Biodiversity Assessment Tool (IBAT) user sub-committee.
- Technical lead for the Oil for Development programme to strengthen the availability and use of biodiversity data across partner countries.
- Analysis of large, global, datasets using R, Python, and GIS software for businesses, governments, and financial institutions.
- Build data analysis pipelines to automate workflows.
- Manage relationships between private sector and governmental partners.
- Provide technical leadership and support across the Business and Biodiversity team to streamline data analysis workflows and upskill others in the team.
- Delivered remote training courses in data fundamentals and data management to international clients with limited technical knowledge.

Senior Marine Ecologist
2020 | 2019

Ocean Ecology Ltd   📍 Gloucester, GBR

- Lead role in data manipulation, analysis, and visualisation and report writing.
- Streamlined data analysis processes using R and Python scripts.
- Built workflows to automate data analysis and QA procedures.
- Progressed the quality management system to ensure effective data management of different data types and quality control of data.
- Produced reports and deliverables (e.g. data packages) tailored to the individual needs of clients.
- Formatted large datasets to meet international metadata standards for data archiving.
- Lead role in mapping and advanced geospatial analysis using R and ArcGIS Pro software.

CONTACT

- ✉ Email
- 🐦 Twitter
- 🔗 Google Scholar
- in LinkedIn
- ⓖ GitHub

TECHNICAL SKILLS

Proficient:

- R
- Python
- ESRI GIS Products
- QGIS
- GitHub

Working knowledge:

- Javascript
- SQL

2016
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2014

Marine Offshore Habitats Monitoring Officer

Joint Nature Conservation Committee (JNCC)

📍 Peterborough, GBR

- Led the development of scientific guidance documents in collaboration with scientific and governmental organisations.
- Managed research and development projects and worked with contractors to synthesise information on UK marine benthic habitats and the ecosystem services they provide.
- Collaborated with partner organisations and across teams within JNCC to plan surveys.
- Presented work at international conferences and at senior cross-organisation meetings.
- Applied data analysis techniques to ensure scientific robustness of surveys.

2014
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2013

Marine Monitoring Specialist

Natural England

📍 Newcastle, GBR

- Sourced spatial data to inform survey design using GIS and programming skills.
- Managed contracts, in collaboration with partner organisations, for inshore UK MPA monitoring to gather evidence for designation and to assess site condition.

🎓 EDUCATION

2019
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2016

PhD Spatial Ecology

University of Western Australia

📍 Perth, AUS

- Awarded a globally advertised BHP Marine Research scholarships to work in collaboration with the Commonwealth Scientific and Industrial Research Organisation (CSIRO).
- Established advanced GIS and programming skills to develop workflows to combine and analyse large data sets to obtain quantitative results.
- Detailed knowledge of statistics and modelling methods to identify the appropriate techniques to analyse data including mixed-effect models and machine-learning.
- Developed experience in the operation of remote sensing techniques and subsequent data analysis.
- Established a global network of contacts and led collaborations across institutions to produce quality research papers and book chapters.
- Presented work at multiple international and domestic conferences and seminars.
- Synthesised complex scientific concepts to a variety of stakeholders.
- Effectively practiced time management, self-management, and personal motivation.

2012
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2011

MSc Tropical Coastal Management

University of Newcastle upon Tyne

📍 Newcastle, GBR

- Set up a collaboration with the Department of Parks and Wildlife (Australia) to complete my research project and subsequently published this work.
- Advanced GIS and Python skills to analyse spatial data sets to complete assignments.
- Obtained knowledge of the interactions between biodiversity and the private sector, such as Environmental Impact Assessment (EIA) processes.

2011
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2008

BSc (Hons) Marine Zoology

University of Newcastle upon Tyne

📍 Newcastle, GBR

- Developed knowledge of marine ecology and biodiversity from a cellular to ecosystem level.
- Established skills of data interpretation and analysis.
- Experienced in use of Microsoft Office and statistical software including Primer and R.

2008
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2006

A Levels

King George V Sixth Form College

📍 Liverpool, GBR

- Mathematics (A)
- Chemistry (A)
- Biology (A)
- Geology (A)

ℹ INTERESTS

Athletics and Cross-Country

- International level ultrarunner. Competed for England in 2021 in the 100 km. Rank 18th all-time in GBR for 100 km.
- Club secretary for the Newcastle University Athletics and Cross-Country Club 2011/12.
- Committee member for the University of Western Australia Athletics Club and led the development of the UWA Run Club to encourage greater student participation.

SCUBA Diving

- Professionally qualified diver (PADI Divemaster) with associated first aid qualifications.

Made with the R packages **pagedown** and **datadrivencv**.

The source code is available **github.com/jt-tbc/cv**.

Last updated on 2022-10-29.