DATA AND POLICY ANALYST

Berlin, DE

☑agl.hurley@gmail.com | ♠aglhurley.rbind.io | ☑0000-0002-9641-2805 | ☑the-hull | ☐aglhurley | У aglhurley

Goal

Drive decision-making in organizations as well as the public while enjoying myself - usually by solving puzzles or generating tools and toys.

Key Achievements _____

- · Completed data science boot-camp and prototyped a flask web-application with a recommendation algorithm.
- Developed and contributed to several open-source applications for research, including an interactive data processing tool.
- Developed and executed research study on Berlin's street trees to inform climate change adaptation. The work included a reproducible pipeline for ETL, statistical analyses, visualization, and document generation.
- Led and collaborated on several research projects across academia and industry requiring extensive expeditions, data analyses, and communication with stakeholders through peer-reviewed publications and presentations.
- Led and contributed to organizations and projects promoting open and reproducible science as well as computer literacy.
- · Led and contributed to projects on data and policy analyses with direct impact on the German government's actions.

Employment and research experience ______

German Council of Experts on Climate Change	Berlin
Scientific Associate	2022 - present
Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences	Potsdam
VISITING SCIENTIST	2022 - 2023
Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences	Potsdam
Post-doctoral Researcher	2019 - 2021
University of Birmingham	Birmingham
TEACHING ASSOCIATE	2015 - 2019
Leibniz-Institut für Gewässerökologie und Binnenfischerei	Berlin
RESEARCH INTERN	2013 - 2013
Universität Bayreuth	Bayreuth
RESEARCH ASSISTANT	2011 - 2013
Universität Bayreuth	Bayreuth
RESEARCH ASSISTANT	2010 - 2011

Education

University of Birmingham	Birmingham
PHD	2015 - 2020
University of East Anglia	Norwich
APPLIED ECOLOGY, EMMC MSc (DISTINCTION)	2014 - 2015
Universidade de Coimbra	Coimbra
APPLIED ECOLOGY, EMMC MSc (DISTINCTION)	2014 - 2014
Universidad San Francisco de Quito	Quito
APPLIED ECOLOGY, EMMC MSc (DISTINCTION)	2014 - 2014
University of Poitiers	Poitiers
APPLIED ECOLOGY, EMMC MSc (DISTINCTION)	2013 - 2014
Universität Bayreuth	Bayreuth
BSc Geoökologie	2010 - 2013

Skills

Quantitative (examples: https://github.com/the-Hull/code_portfolio)

- Data processing, visualization, analyses, frequentist statistics, machine learning (advanced: R, DPLYR, DATA.TABLE, GGPLOT2, PLOTLY, MGCV; intermediate: Excel; intermediate/basic: PYTHON, SCIKIT-LEARN, PANDAS, SEABORN, MATPLOTLIB; basic: MATLAB),
- Data(base) management and ETL (advanced: R; basic: PostrgreSQL),
- GIS, spatial analyses (R, TERRA, SF, ESRI ARCMAP),
- Web-application development (advanced: SHINY, basic: FLASK),
- · Web-scraping,
- Version control (GIT, GITHUB), continuous integration (GitHub Actions),
- Reproducible and open science (advanced: R, RMARKDOWN, DRAKE, TARGETS, RENV, GITHUB, basic: DOCKER)

General

- Considerate, empathetic, team-oriented approach to work
- Excellent written and oral communication to experts and lay people
- Project management and workshop organization
- · German and English native speaker

Software_

• erkolor(R) https://github.com/the-Hull/erkolor|| Nextrip protoype (PYTHON, FLASKAND SCIKIT-LEARN) - http://aglhurley.pythonanywhere.com&https://github.com/the-Hull/nextrip|| remis (R, CURL, HTTPR) - https://github.com/the-Hull/remis|| datacleanr (R, SHINY) - https://the-hull.github.io/datacleanr|| Peters et al. (2020). TREX (R) - https://the-hull.github.io/TREX (Contributed to code refactoring, continuous integration and testing)|| Peters et al. (2018) RAPTOR (R) - https://doi.org/10.1016/j.dendro.2017.10.003 (Contributed to code refactoring, continuous integration and testing)|| BIFOR Data and Outreach Platform POC (R, SHINY) - https://aglhurley.shinyapps.io/bifor

Professional and personal activities.

- Led, delivered or contributed to several workshops (10), seminars (3) and outreach activities (1); organized (1) and co-chaired (3) conference sessions
- Supervision: 1 research assistant, remote field work for 8 under-graduate and 1 post-graduate dissertations, 1 under-graduate professional development internship, co-supervised 1 post-graduate dissertation
- Geoforschungszentrum Potsdam Post-Doctoral Researcher Representative (2021)
- Co-founded DEEP Platform for outreach and teaching (2020). https://deep-tools.netlify.app/
- Course Representative on Post-Graduate Taught Affairs Committee (2014)
- OpenNASA Datanaut Citizen Data Scientist / Volunteer (2018 present)
- FishAct (frm. The Black Fish) Social Media Coordinator Germany (2014 2015)

Awards_

- 2017 British Ecological Society Training and Travel Grant
- 2016 Alpkit Personal Development Grant
- 2014 Merit Grant for Outstanding Academic Achievement (Portuguese Government)
- 2013 Erasmus Mundus scholarship of the European Commission for Master's of Excellence

Publications and conferences

- 10 peer-reviewed publications (2 first-author)
- 6 reports
- 9 conference contributions