

Bethany McDonagh

Education

University of Bologna 2020-2024.

- PhD Future Earth, Climate Change, and Societal Challenge
 - Provisional thesis title: Wave-induced mixing processes and their parameterisation in coupled numerical models, supervised by Dr. Emanuela Clementi and Prof. Nadia Pinardi.

University of Reading 2019-2020.

- MSc Atmosphere Ocean and Climate
 - Achieved a high distinction with an average of 77%.
 - Dissertation title: The future of the global monsoon in the CMIP6 model experiments, supervised by Prof. Andrew Turner and Dr. Amulya Chevuturi.
- Developed numerical models for the atmosphere and ocean, built numerical schemes from scratch and analysed their performance.
- Modules include: Numerical Modelling of the Atmosphere and Oceans, Fluid Dynamics, Extra-Tropical Weather Systems, Tropical Weather Systems, Climate Change, Global Circulation of the Atmosphere and Ocean.

University of Warwick 2013-2016.

- BSc Physics
 - Dissertation title: Automated Identification of Structures in the Solar Corona, supervised by Dr. Erwin Verwichte
- Modules include: C programming, Physics of the Weather, The Challenges of Climate Change.

Work Experience

Brainlabs are a medium-sized, technology-driven digital marketing agency based in London. I worked in various roles in their technology department from 2016-2019, after joining their graduate scheme in 2016.

Group Account Director, Brainlabs July-September 2019.

- Below responsibilities, as well as:
 - Leading on software design and quality control of technology products.
 - Leading a larger team and guiding the direction of the department.
 - Leading on strategy for a wide variety of clients.

Tech Account Director, Brainlabs January 2018-June 2019.

- Below responsibilities, as well as:
 - Designing technology products and advising junior software developers technically.
 - Contributing to large code bases and internal libraries using object oriented design structures.
 - Managing a team with a wide range of skills to service a varied group of clients.
 - Advising clients strategically, ensuring that our technology adds value to their business.

Tech Account Manager, Brainlabs September 2016-December 2017.

- Providing technology solutions for PPC to our clients with the goal to improve efficiency, boost performance and add value to their business.
- Creating unique software using JavaScript, Python and PHP to provide bespoke solutions.
- Working with external (Google) APIs to meet the data needs of clients and to integrate their marketing platforms.
- Auditing and analysing data for clients, providing them with insights and recommendations.

Volunteering Experience

Schistosomiasis Control Initiative October 2018.

- Used CSS to create a new website for the charity according to a brief, alongside other volunteers.
- This project allowed them to receive donations more effectively, and receive advertising funding from Google where previously they were not eligible.

Extra-Curricular

- I play double bass to a high standard (Grade 8 distinction), and have sat in the principal chair in several amateur orchestras and opera societies, as well as maintaining committee roles in some of these groups.
- PhD Future Earth, Climate Change and Societal Challenge student representative 2021-2022.

Last updated: October 2021