**Georgina Milne**   
Georgina Milne graduated from the University of Cambridge in 2008 with a Masters in Natural Sciences (MA). During her undergraduate degree, Georgina worked as a lab assistant in the Agri-Food and Biosciences Institute (AFBI) assisting with data collection for arable crop trials. She completed a Masters (MSc) in Management at Queen's University Belfast before joining Deloitte consulting as a trainee analyst in data warehousing and data analytics. Georgina later moved to Citigroup as a software developer in a data warehouse team, helping to develop reports, analyse data and support the system. Georgina was subsequently awarded a fully funded PhD at Queen’s University, Belfast in theoretical ecology and currently models how species have been impacted by past climate change.

**Education**

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| **PhD Biological Sciences** | **Queen’s University, Belfast** | **September 2012** | **November 2015** |

*Environmental niche evolution and ancestral niche reconstruction*

This role is largely computational and requires a wide skill-set and high technical competence. This thesis focuses on long-term responses to environmental change, and specifically aims to reconstruct the climatic niche of ancestral species. I work with large datasets and use a range of software and modelling tools (including Bayesian techniques) to manipulate the data, analyse the results and ensure that the output is clear, succinct and comprehensive.   
*Skills: Coding in R, Python, and SQL ● GIS (Geographic Information Systems) ● Process automation ● Statistical analysis ● Scientific writing ● Collaboration with co-authors, peers and supervisors ● Presenting research at conferences ● Poster presentations ● Applying for grants and funding*

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| **Masters (MSc) Management** | **Queen’s University, Belfast** | **September 2008** | **September 2009** |

**Dissertation Topic:** “*Limiting factors of RFID update within small business.”*

This research investigated the technology behind RFID and its benefits and limitations to small businesses. The study was largely quantitative and involved reviewing technical documentation, interviewing business owners and developing and analysing survey questionnaires.

*Skills: Quantitative and qualitative research techniques ● Statistical analysis ● Project planning*

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| **MA Natural Sciences 2:1** | **University of Cambridge** | **September 2005** | **June 2008** |

**Dissertation Topic (now published)** “The influence of pigmentation patterning on bumblebee foraging from flowers of *Antirrhinum majus*.”

**Employment History**

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| **Customer services advisor** | **Argento** | **Dec 2015** | **Jan 2016** |

This temporary Christmas role required taking and making inbound and outbound telephone calls, corresponding with customers via email to resolve complaints and general office duties.  
*Skills: Customer services ● Developing telephone manner● Problem resolution*

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| **Analyst software developer** | **Citibank** | **December 2010** | **August 2012** |

As an analyst software developer in a global data mining team I worked on a multi-terabyte MS-SQL database which housed the aggregation and reporting of global foreign exchange data. The data mining team developed and supported the database and also processed the data into reports and charts to help the business manage currency sales. The position demanded the ability to investigate and fix bugs and data errors, alongside knowledge of MS-SQL/VBA/MDX and general data warehousing tools.  
*Skills: Data warehousing ● Database design and development ● Reporting in SSRS ● Data Integration in SSIS ● OLAP and Development in SSAS ● System support and bug fixes ● Teamwork*

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| **IT consultant** | **Deloitte** | **September 2009** | **December 2010** |

As a graduate analyst consultant I trained extensively in the basics of software development, project lifecycles and stakeholder engagement. I specifically assisted in the design, development and implementation of data warehouse solutions for data storage, aggregation and analytics.   
*Skills: ● MS-SQL ● Data analytics ● COGNOS Business intelligence tools ● Data warehousing*

*tools ●Advanced/Expert MS-Excel and Word capabilities*

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| **Lab assistant** | **AFBI** | **Casual 2005-2008** |  |

Duties associated with this role included general harvesting tasks, collection of crop-trial data and data entry for the continual testing and improvement of crops such as cereals, potatoes and grass. I was also specifically involved with assessing crops for disease and quantifying harvest yield.  *Skills: Working within the agricultural sector ● data collection and analysis in MS-Excel ● teamwork*

**Technical Skills**

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| **Operating systems**  OS Windows *…………..*  OS Ubuntu*………………* | ❶❷❸❹❺  ❶❷③④⑤ | **SSIS** (SQL Server Integration Services)……………  **SSAS** (SQL Server Analysis Services)………………. **Tableau** (Data Visualisation)………………………….. | ❶❷❸④⑤  ❶❷③④⑤  ❶❷❸④⑤ |
| **Code and data** R……………………………..  Python*…....................*  MS-SQL*…………….…….*  MySQL …………*……...*  HTML/CSS*….…………..*  VBA*…………………………* | ❶❷❸❹⑤  ❶❷③④⑤  ❶❷❸④⑤  ❶❷③④⑤  ❶❷③④⑤  ❶❷③④⑤ | **MS Office Package**  *MS Word………………………..................................*  *Excel……………………………....................................*  *Access…………………………....................................*  *PowerPoint……………………..................................*  **Other**  Geographic information Services (GIS)………….. | ❶❷❸❹⑤  ❶❷❸❹❺  ❶❷❸④⑤  ❶❷❸❹⑤ ❶❷❸④⑤ |

**Personal Skills**

**Software development** **and data analysis**– Over three years’ experience working in software development alongside a further three years’ experience as a PhD researcher using R, Python, MS Excel, MS Access and GIS tools to analyse large datasets, solve problems and troubleshoot bugs.

**Research skills**– Demonstrates strong scientific acumen though an undergraduate degree in Natural Sciences, a Masters in Management and a PhD in theoretical ecology. This demands the ability to read technical documentation, evaluate the contents and aggregate the outputs into a communicable format. Voted as winner of the 2014 “What’s the Big Idea” Queen’s University Entrepreneurial award. Shortlisted to present research in the 2013 science communication award “SET for BRITAIN” and consequentially exhibited a poster of PhD research in the House of Commons.

**Environmental awareness**– Has experience volunteering with TCV (The Conservation volunteers) and volunteered at the NI Science Festival as Member of STEMNet (an organisation which encourages pupils to engage with STEM careers). Since 2013, has become involved with community groups and political organisations campaigning for a better environment. Also engages with the community through playing in an all-female international samba band.

**Communication and teamwork–** Assisted with improving Citigroup’s Peer Mentoring programme and was involved in both graduate recruitment and the “Women in Technology” initiative within Deloitte. Has conducted research and written papers with international co-authors during PhD research. Contributes to the QUB Biology Blog and assisted students as a paid demonstrator.

**Employment Interests**

Data analysis and data modelling ● Scientific research and investigation ● Environmental and ethical business ● Software development and system support