**Georgina Milne**   
My main interests lie in scientific research, data analytics, software development and project management. I graduated from the University of Cambridge in 2008 with a Masters in Natural Sciences (MA), then completed a Masters (MSc) in Management at Queen's University Belfast before joining Deloitte consulting as a trainee management consultant in data warehousing and data analytics. I later moved to Citigroup as a software developer in a data warehouse team, helping to develop reports, analyse data and support the system. I was subsequently awarded a fully funded PhD at Queen’s University, Belfast, modelling how species have been impacted by past climate change.

**Education**

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| **PhD Biological Sciences** | **Queen’s University, Belfast** | **September 2012** | **July 2016** |

*Environmental niche evolution and ancestral niche reconstruction*

This role was largely computational and requires a wide skill-set and high technical competence. I investigated long-term responses to environmental change via reconstructing the climatic tolerances of ancestral species. I worked with large datasets and used a range of software and modelling tools (including Bayesian techniques) to manipulate the data, analyse the results and ensure that the output was clear, succinct and comprehensive.   
*Skills: 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.”*

I investigated the technology behind RFID and its benefits and limitations to small businesses. This study 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** “The influence of pigmentation patterning on bumblebee foraging from flowers of *Antirrhinum majus*.” [now published]

**Employment History**

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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** |

I trained extensively in the basics of software development, project lifecycles and stakeholder engagement. Client work involved assisting with gathering technical requirements from key stakeholders, developing business strategy documents and project timelines. I was also involved with developing and producing hands-on training materials for new software. Besides client work, I was part of a team generating bids for new projects and furthermore, I conducted client reviews to identify ethical concerns or conflicts of interest.

*Skills: ● Data warehousing (SQL and COGNOS) ● stakeholder engagement ● technical documentation ● business plans ● bids and client assessment*

**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**

**Problem solving**: I hold over three years’ experience working in software development, alongside a further three years’ as a PhD researcher using R, Python, MS Excel, MS Access and GIS tools to analyse large datasets, solve problems and troubleshoot bugs. All programming is self-taught.

**Research skills**: I demonstrate strong academic capabilities, holding a Masters in Natural Sciences, a Masters in Management and a PhD in theoretical ecology. I have developed the ability to read technical documentation, evaluate the contents and aggregate the outputs into numerous communicable formats. I was shortlisted in the 2013 science communication award “SET for BRITAIN” and consequentially exhibited a poster of PhD research in the House of Commons.

**Communication and teamwork:** Iassisted with improving Citigroup’s Peer Mentoring programme and was involved in both graduate recruitment and the “Women in Technology” initiative within Deloitte. I have also conducted research and written papers with international co-authors during my PhD research. I contributed to the QUB Biology Blog and maintain several websites.

**Organisation and management**: I completed extensive project management training in Deloitte and I also planned my own PhD project with the input of my supervisory team. I am the elected chair of a local community group and I undertake related tasks such as organising meetings, confirming agenda items and booking rooms. I also have to listen carefully to the group members in order to facilitate discussion and decision making, and ensure follow-up on agreed actions.

**Volunteering**: Since 2013 I have volunteered with a number of organisations including TCV (The Conservation Volunteers) and STEMNet (an organisation which encourages pupils to engage with STEM careers) at the NI Science Festival. I am heavily involved with community groups campaigning for a better environment. I also play in an all-female international samba band.