**Georgina Milne**   
Georgina Milne graduated from the University of Cambridge in 2008 with a Masters in Natural Sciences (MA). 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. Georgina’s main skills and interest include data analytics, ecological modelling and phylogenetics. **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.

**Included topics**: Ecological niche modelling *●* Climate change *●* Palaeoecology *●* Historical biogeography *●* Phylogenetics *●* Ancestral niche reconstruction  
**Specific skills developed**: *Coding in R, Python, and SQL ● Niche modelling ● GIS (Geographic Information Systems) ● Bioinformatics ● Data handling, data manipulation and process automation*

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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** |

Whitney, H.M., **Milne, G.**, Rands, S.A., Vignolini, S., Martin, C., Glover, B.J., 2013. *The influence of pigmentation patterning on bumblebee foraging from flowers of Antirrhinum majus***.** Naturwissenschaften 100, 249–256. ***[undergraduate thesis]***

**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 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*

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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*

**Technical skills**

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| **Operating systems**  OS Windows  OS Ubuntu  **Code and data**  R  Python | ❶❷❸❹❺  ❶❷③④⑤  ❶❷❸❹⑤  ❶❷③④⑤ | **MS Office Package**  *MS Word*  *Excel*  *Access*  *PowerPoint* | ❶❷❸❹⑤  ❶❷❸❹❺  ❶❷❸④⑤  ❶❷❸❹⑤ |
| MS-SQL  MySQL  HTML/CSS  VBA  **Niche Modelling**  Maxent  Arc-GIS  DIVA-GIS | ❶❷❸④⑤  ❶❷③④⑤  ❶❷③④⑤  ❶❷③④⑤  ❶❷❸❹❺❶❷③④⑤  ❶❷❸❹⑤ | **Phylogenetics**  Bayestraits  BayesPhylogenies  MrBayes  Mesquite  Phylip  Mega6  RAxML | ❶❷❸④⑤  ❶❷❸④⑤  ❶❷③④⑤  ❶❷❸④⑤  ❶❷③④⑤  ❶❷❸❹⑤  ❶❷❸④⑤ |
| GIS (R)  ENM Tools | ❶❷❸④⑤  ❶❷❸④⑤ |  |  |

**Publications**

Whitney, H.M., **Milne, G.**, Rands, S.A., Vignolini, S., Martin, C., Glover, B.J., 2013. *The influence of pigmentation patterning on bumblebee foraging from flowers of Antirrhinum majus***.** Naturwissenschaften 100, 249–256. *[undergraduate thesis]*

**Professional qualifications and membership**

* 2010ISEB (Information Systems Examinations Board) certified Software Development & Testing
* Member of: Royal Entomology Society ● British Ecological Society ● Quaternary Research Assoc.

**Teaching and communication**

* 2013- Demonstrator for Environmental Biology first year field course. Duties included explaining concepts and principles of hedgerow ecology, assisting student practical and written work and general duties of assembling equipment and assisting lead lecturer.
* Volunteered at NI Science Festival 2015 ● Member of STEMNet

**Grants, awards and prizes**

2013 ● E500 ● COST INTIMATE ● Travel & accommodation for INTIMATE conference.

2013 ● £500 ● QUB ● co-applicant for provision of R training course.

2014 ● £100 ● QUB entrepreneurial award ● Winner of QUB “What’s the Big Idea?”

2014 ● SET for Britain ● Shortlisted for science communication award.

2015 ● £600 ● INQUA QRA (Quaternary Research Association) ● Travel for INQUA Conference.

2015● £1000 ● William and Betty McQuitty QUB travel scholarship

**Research interests**Niche Modelling ● Palaeoecology ● Quaternary Science ● Phylogenetics ● Palaeoclimate reconstructions ● Databases and data management● Software development ● Process Automation ● Data Science