

# Mary Crossland, B.Sc., M.Sc.

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## Education

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Sep 2015 – Oct 2016    Bangor University, UK  
M.Sc. Agroforestry (Distinction)

Dissertation conducted in northwestern Ethiopia in collaboration with the World Agroforestry Centre, Kenya. Fieldwork combined biophysical surveys, semi-structured interviews, and participatory mapping to explore farmers' perceptions of land degradation and restoration activities.

Sep 2010 – Jun 2013    University of Southampton, UK  
B.Sc. Environmental Science (2:1)

Dissertation, entitled 'An investigation into the viability of small-scale heartnut (*Juglans ailantifolia* var. *cordifomis*) production in the United Kingdom', obtained a 1<sup>st</sup> class mark and considered climatic factors using GIS to define optimal areas for establishment. Interviews on nut crop adoption were undertaken with nut growers, along with over 150 consumer surveys.

2005 – 2009            Corfe Hills School, Dorset, UK  
A-Levels: Geology (A); Fine Art (A); Biology (C)

## Employment

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Sep 2014 – Sep 2015    *Agroforestry Researcher, The Organic Research Centre, Newbury, UK*

Helped deliver a number of UK based agricultural research projects. Key responsibilities included:

- Overseeing farmer-led on-farm trials of diverse cover crop mixes.
- Conducting farmer interviews on the management implications of silvoarable systems.
- Developing an Excel-based protocol to aid farmers in monitoring hedgerow biodiversity.
- Mathematical modelling of the carbon sequestration potential of hedges managed for woodfuel.
- Regular fieldwork including vegetation surveys, soil sampling and microclimate measurements.

## Experience

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Jun 2014 – Sep 2014    *Research Intern, World Agroforestry Centre, Nairobi, Kenya*

Investigated methods for identifying potential agroforestry options for dryland areas in eastern Kenya. Methods included site visits, focus groups and review of literature.

Nov 2013 – Jan 2014    *GIS Research Intern, The Earthwatch Institute, Oxford, UK*

Worked within a multidisciplinary research team to identify and evaluate high-resolution geospatial data for the project's urban freshwater quality GIS.

Jul 2013 – Oct 2013    *Research Intern, The Organic Research Centre, Newbury, UK*

Produced an extensive literature review on the ecosystem service provision of UK hedgerows. Assisted in regular fieldwork including botanical surveys and crop assessments.

#### Additional Courses and Experience

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Nov 2012                    *Presentation Zen, London, UK*  
Two-day seminar on presentation design and public speaking.

Sep 2011                    *Growing Nut Crops, The Agroforestry Research Trust, Totnes, UK*  
Five-day course on growing nut crops in the UK.

Jan - Mar 2010            *Sustainable Land Use Course, full time, Ragman Lane Farm, UK*  
Residential course covering organic horticulture and permaculture design.

#### Awards

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*Tilhill Forestry Phil Johnson Memorial Award for Best Silviculture Student 2015/16 (Bangor University).*

#### Key Skills

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Experience in MS Office, Outlook, Mac OS, SPSS, ArcGIS, Quantum GIS, EndNote and R Statistics.

#### Professional Memberships

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European Agroforestry Federation (EURAF); Farm Woodland Forum (FWF).

#### Publications

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Wolton, R., Westaway, S., Chambers, M., Crossland, M. and Smith, J. 2016. Harvesting fuel from hedges. *Conservation Land Management* 14 (1), pp. 4-9.

Crossland, M., Westaway, S., Smith, J. and Gerrard, C. 2015. *A report on the development of the Hedgerow Biodiversity Protocol*. The Organic Research Centre, UK.

Chambers, M., Crossland, M., Westaway, S. and Smith, J. 2015. *A guide to harvesting woodfuel from hedges*. The Organic Research Centre, UK.

Crossland, M. 2015. *The carbon sequestration potential of hedges managed for woodfuel*. The Organic Research Centre, UK.

Crossland, M. and Westaway, S. 2015. Optimising Subsidiary Crop Applications in Rotations: On-farm Testing of Cover Crop Species Mixes. *Aspects of Applied Biology* 129, pp. 13-18.

Crossland et al. 2015. An online toolbox for cover crops and living mulches. *Aspects of Applied Biology* 129, pp. 1-5.