

CURRICULUM VITAE

ROBERT MYHILL

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CONTACT DETAILS

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PERSONAL DATA

<i>DOB</i>	16 March 1986
<i>Nationality</i>	British

EDUCATION

<i>The Mechanisms of Deep Focus Earthquakes</i>	<i>Current</i> PhD Research Student at U. Cambridge Researching the causes of earthquakes at depths greater than 300 km through an integrated analysis of seismic distributions, focal mechanisms and <i>P-T</i> regimes within which these events occur. I aim to combine this analysis with previous work to elucidate aspects of the interaction between subducting plates and the upper-lower mantle boundary. <i>Advisors: Dan McKenzie and Keith Priestley.</i>
<i>2004-2008</i>	MSci + BA Peterhouse, University of Cambridge, Class of 2008. Natural Sciences (Physical; 4 years).
<i>2007-2008</i>	Part III: First Class. 1/36 in Class (Geological Sciences).
<i>2006-2007</i>	Part II: First Class. 1/39 in Class (Geological Sciences).
<i>2005-2006</i>	Part IB: First Class (Maths, Stratigraphic Geology, Mineralogy and Petrology).
<i>2004-2005</i>	Part IA: First Class (Geology, Maths, Physics, Chemistry).
<i>1999-2004</i>	Sir John Leman High School, Beccles. 5 A grades at AS level, converted to 5 A grades at A2 level. (Physics, Chemistry, Mathematics, Further Mathematics, General Studies).

GRANTS AND AWARDS

2008	The Hugo de Balsham Prize for Exceptional Academic Distinction. Peterhouse College Prize. Harkness Scholarship (first-placed Finalist in Geological Sciences, Cambridge University). Huppert Prize in Geophysics (awarded for a high quality essay in geophysics). Cambridge University NERC Studentship 2008-11 (accepted). Open University NERC Studentship (with CASE Award; declined). Oxford University NERC Studentship (with CASE Award; declined).
2004-2007	Departmental Field Mapping Prizes (Arran, Sedbergh, Dorset and Cornwall, Greece).
2007	The Henry Wilkinson Cookson Senior Scholarship in Natural Sciences. The John Reekie Memorial Prize for the best geological fieldwork-based thesis submitted for the first degree at the Department of Earth Sciences.
2006	Peterhouse Senior Scholarship. Peterhouse Travel Grant and Prizes.
2005	Peterhouse Junior Scholarship.
2004	Prize for Further Mathematics. The George Watson Prize for Outstanding Scholarship (Best Results, Class of 2004).
2003	St. John Ambulance Grand Prior Award.
2002	100 Hours Active Service Award, St. John Ambulance.

PUBLICATIONS AND PRESENTATIONS

Peer-reviewed journal articles

2010	R. Myhill, D. McKenzie, K. Priestley, "Clustering of deep focus earthquakes in the southwest Pacific". <i>Submitted to EPSL.</i>
2008	R. Myhill, "Constraints on evolution of the Mesohellenic Ophiolite from sub-ophiolitic metamorphic rocks". <i>GSA Special Publication, accepted.</i>
2008	A. Rassios, Y. Dilek, R. Myhill, D. Ghikas, A. Mpatsi, "Melange Formations beneath the Pindos Basin Ophiolites, Northern Greece: Evidence of an active, rapid decollement emplacement surface". <i>GSA Special Publication, accepted.</i>

Presentations

2009	"Clustering of deep focus earthquakes in the southwest Pacific". <i>Poster presentation, AGU Fall Meeting.</i>
2009	"Faulting 300 kilometers down: The mystery of deep focus earthquakes". <i>Magdalene Parlour Talk.</i>
	"Deep focus earthquakes". <i>First year PhD presentation.</i>
2008	"The significance of high temperature low pressure rocks beneath the Mesohellenic Ophiolite". <i>Poster presentation, IGME Field Symposium: Ophiolites 2008.</i> IGME Field Symposium: Ophiolites 2008. <i>Field Guide.</i> Köln undergraduate field trip to Greece. <i>1-day Guest Field Guide.</i>

RESEARCH EXPERIENCE

*Metamorphic
Development
beneath the
Mesohellenic
Ophiolite*

06/07-01/08

Masters Thesis at U. Cambridge

This project involved studying the metamorphic sole beneath the Vourinos and Pindos Complexes in Northern Greece. Its primary aim was to discover the mechanisms of sole formation, and thus obduction and emplacement of the Mesohellenic Ophiolite. The project allowed me to gain further experience in fieldwork and sampling. Further to this, I developed skills including: thin section preparation, petrographic analysis, electron probe microscopy, conventional thermobarometry, THERMOCALC thermobarometry and pseudosection construction. The project concluded with the development of a novel mechanism for emplacement of the Mesohellenic Ophiolite. I obtained a high First (80%) for this project.
Advisor: Dr. Timothy Holland, Cambridge University.

*Independent
mapping project
and industrial
work experience:
Vourinos,
Northern Greece.*

06/06-01/07

Bachelors Thesis at U. Cambridge

I was part of an international team of researchers studying areas of the Vourinos Ophiolite due to be flooded in 2009. My studies concentrated on 1:5000 scale mapping of the structural geology at the base of the Vourinos Ophiolite, particularly within the underlying tectonic mélange. I obtained the top First in the year for this project (80%).
Advisors: Dr. Alan Smith, Cambridge University and Dr. Anne Rassios, Greek Institute of Geology and Mineral Exploration (IGME).

VW, Tellus Project

07/05-08/05

British Geological Survey

This paid research appointment involved soil and stream sampling and record keeping, plus field mineralogical and geological identification, for part of a national environmental survey completed in 2006.
Advisors: Louise Ander, Sean Quigley, Sophia Passmore (British Geological Survey).

FIELD EXPERIENCE

230 days fieldwork experience (as of 01/06/09) including:

- 10-days as demonstrator on the Department of Earth Sciences IA Arran Field Trip.
- 28-days field research for my Senior (Part III) Thesis.
- 28-days independent mapping project.
- 28 days paid experience with the British Geological Survey.
- 6 days as field guide for the Ophiolites 2008 Field Symposium, Northern Greece
- Department-organised field trips and field courses.
(Locations include: Ireland, Greece, Dorset, Cornwall, Sedbergh, and the Isles of Arran and Skye.)

TEACHING EXPERIENCE

Supervisions given in the following courses: *IA Geology; IB Hydrosphere, Tectonics and Structural Geology; II/III Essay Skills.*
Demonstrated in the following courses: *IB Tectonics and Structural Geology; II/III Tectonics, Seismology (partial).*
Field Demonstrator: *Ketton (IA), Arran (IA), Sedbergh (IB).*

OTHER EXPERIENCE

2010-2011	Treasurer, Magdalene Middle Common Room. Duties Coordinator, Cambridge LINKS (St. John Ambulance).
2007-2008	Treasurer, Cambridge University Association Football League. Teaching Liaison Committee Member, Department of Earth Sciences. President, Sedgwick Club (Geological Society of the University of Cambridge).
2006-2007	Time Truck (Cambridge Geological Outreach) Committee Member. Chairman, Cambridge University Association Football League. Vice President, Sedgwick Club.
2005-2006	Teaching Liaison Committee Member, Department of Earth Sciences.
2005-present	Volunteer for Time Truck. Team Member of Science and Engineering Experiments for Kids, Cambridge: Science Outreach for local schools.
2002-2003	Member of a National Engineering Team working for Shell UK.

SKILLS

- Competent user of L^AT_EX, Microsoft and Serif Office programs and basic knowledge of Access.
- Basic knowledge of programming in C, C++, and use of the OpenGL API.
- Working knowledge of HTML coding (including css, javascript, flash).
- Over 300 hours experience with THERMOCALC (a thermobarometry program based on Gibbs Energy minimisation).
- First Aid at Work due for renewal December 2012.
- First Aider with St John Ambulance.
- Basic Training in Manual Handling, Radio Communication, Fire Safety.
- Enhanced CRB checked (Disclosure Number: 001077125731).
- Attended the Advanced Undergraduate Course in Modern Greek, Cambridge (1 year; 2007-2008).

Interests Geology · Music · First Aid · Programming · Foreign Travel

REFEREES

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<http://www.srcf.ucam.org/~rm438/files/CV.pdf>

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