

# IAN DAVID BASTOW

**DATE OF BIRTH:** 13/10/77

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## PRESENT POSITION

### 2007-PRESENT UNIVERSITY OF BRISTOL

Post Doctoral Researcher, Department of Earth Sciences with the Hudson Bay Lithospheric Experiment (HuBLE). In addition to taking primary responsibility for the HuBLE research programme, I lead its field campaign that will be supported by the Geological Survey of Canada until 2011. I continue to engage in collaborative research in the fields of hotspot tectonism and rifting in Ethiopia, lithospheric foundering in western North America, and lithospheric structure in Scotland. When added to time spent deploying and servicing seismic instruments in Ethiopia and the Sierra Nevada since 2001, my work in the Canadian Arctic with HuBLE brings my total experience of field management and organisation to ~17 months.

## EDUCATION

### 2001 – 2005 UNIVERSITY OF LEEDS, UK

NERC Ph.D. studentship, supervised by Prof. Graham Stuart and Prof. J-Michael Kendall. Thesis title: *Lithospheric seismic structure in a region of incipient continental breakup: northern Ethiopian rift.*

### 2000 – 2001 UNIVERSITY OF EDINBURGH, UK

Master of Research in the Natural Environment (MRes with distinction). Thesis title: *A comparison of seismic moment tensors to tectonic deformations in the north Pacific.*

### 1996 – 2000 UNIVERSITY OF EDINBURGH, UK

BSc in Geophysics (1st Class Hons.). Final year modules included: potential field theory, geomagnetism, seismology, exploration seismology, palaeomagnetism, deformation processes. Final year projects: (1) *Improved estimation of transfer functions in the magnetotelluric dead band.* (2) *A comparison of seismic moment tensors to tectonic deformations in the Aegean.*

### 1989 – 1996 OSSETT SCHOOL, OSSETT, WEST YORKSHIRE, U.K.

GCSE: English, French, Economics, Geography, Double Sciences, Mathematics and Computer Studies.

A-LEVEL: Mathematics, Physics, and Geography.

## EMPLOYMENT HISTORY

- University of South Carolina, USA. Post Doctoral Researcher, Department of Geological Sciences focusing on lithospheric foundering in the Sierra Nevada and structure of the Scottish Highlands. In addition to carrying out research, I supervised undergraduate students during ~5 months of seismic fieldwork in the Sierra Nevada.
- University of Calgary, Department of Geosciences Gallagher Visiting Scientist, May 2009. Visit included the delivery of a public research lecture and a two-day course on seismic anisotropy and receiver function analysis.
- Undergraduate and MSc lab demonstrator at University of Leeds: fundamentals of geophysics, environmental and engineering geophysics, basic maths in Earth sciences, and inverse theory.

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- Assistant data analyst for Dr R. Banks, University of Edinburgh (5 weeks in summer 1999). Working on *complex of demodulation of time-series data in the magnetotelluric dead band*.
- Assistant data analyst with the University of Edinburgh Seismic and Sequence Stratigraphy research group (6 weeks in summer 1999).

## GRANTS AND FUNDING

- Royal Society URF – application submitted, 2009.
- HuBLE-UK GSC-funded project extension (2009-2011) – co-investigator.
- SEIS-UK Instrument Loan for HuBLE phase II (2009-2011) – co-investigator.
- NERC-funded Postdoctoral Research Position – HuBLE.
- University of South Carolina Post-Doctoral Fellowship (2005-7).
- NERC PhD Studentship – University of Leeds (2001-4).

## AWARDS AND PRIZES

- 1<sup>st</sup> prize: best NSF Margins student presentation at AGU, 2004.
- 1<sup>st</sup> prize: best oral presentation at the British Geophysical Association conference 2004.
- 1<sup>st</sup> prize: best MRes student oral presentation at the Edinburgh Graduate School conference 2001.
- Thomas Cowan Scholarship (University of Edinburgh) 1998/1999 and 1999/2000 (£1200 p/a).

## COMMUNITY ROLES

- I am a regular reviewer for international research journals, including GJI, PEPI, GRL, Tectonophysics, G<sup>3</sup> and JVGR.
- I have delivered several public Earth science lectures to non-specialist audiences including the Yorkshire Geological Society and the North-East Geological Society.
- I am acknowledged for my assistance in the writing of the continental rifting section of the new edition of “Global Tectonics” – Kearey, Klepeis & Vine.
- I have helped on Department UCAS days in Bristol, giving introductory Earth Science talks to prospective students and their parents. I also co-organize the Bristol department seminar series.

## SELECTED PRESENTATIONS

- Gallagher Visiting Scientist, University of Calgary, May 2009.
- AGU Joint Assembly, 2009, Toronto, Canada (invited speaker).
- University of Leeds, May 2008 (invited speaker).
- University of Plymouth, November 2007 (invited speaker).
- AGU Joint Assembly, 2006, Baltimore (invited speaker).
- Fall AGU, 2004 (1<sup>st</sup> prize – Best oral presentation, NSF Margins).
- British Geophysical Association conference, 2004 (1<sup>st</sup> prize - Best oral presentation).
- EGS/AGU Joint Assembly, 2003 (invited speaker).
- The Edinburgh Graduate School Conference, 2001 (1<sup>st</sup> prize - Best MRes oral presentation).

## REFEREES

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