

DAMON McDougall

PERSONAL DATA

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EDUCATION

OCT 2012	Ph.D. in MATHEMATICS, UNIVERSITY OF WARWICK, Coventry Topic: Data Assimilation Advisors: Prof. A M STUART, Prof. C K R T JONES
JUL 2008	MMath in MATHEMATICS, UNIVERSITY OF WARWICK, Coventry 1 st Class Honors Thesis: "Numerical Solution of the 2D Euler Equations" Adviser: D BARKLEY
SEP 2004	A Levels, TUXFORD COMPREHENSIVE, Nottinghamshire A Level MATHEMATICS: A A Level PHYSICS: A A Level CHEMISTRY: B AS Level FURTHER MATHEMATICS: A

EMPLOYMENT

2012–PRESENT	Postdoc at ICES, UNIVERSITY OF TEXAS AT AUSTIN, Austin, Texas <i>Predictive Engineering and Computational Science</i> Quantifying uncertainty in partial differential equations
2010–2011	Lecturer at UNIVERSITY OF WARWICK, Coventry Lectured a two-part 20 week C++ course for 50 Financial Mathematics MSc students, centred on numerical methods. Wrote and marked a C++ project.
2008–2010	TA at UNIVERSITY OF WARWICK, Coventry Taught Java to 150 first and second year undergraduate Mathematicians. Marked their homework.
2007–2008	Supervisor at UNIVERSITY OF WARWICK, Coventry Supervised two groups of four first year undergraduate Mathematics students. Met each group for an hour twice a week to provide one-to-one feedback on homework and go through difficult course material.
JUL–SEP 2007	Business Analyst Intern at JPMORGAN CHASE & Co., London Worked in investment banking technology as part of a rapid application development team. I documented and streamlined their entire application development cycle over the course of a ten week Summer internship.

PUBLICATIONS

- W. Lee, D. McDougall and A. M. Stuart (2011). *Kalman filtering and smoothing for linear wave equations with model error*. Inverse Problems **27** (9), 095008.
- D. McDougall and C. K. R. T Jones (2014). *Variance reduction for controlled ocean gliders*. In preparation.
- R. O. Moore and D. McDougall (2014). *A posteriori controlled ocean gliders for a testbed model*. In preparation.
- O. Zielke, D. McDougall, I. Babuska and C. Simmons (2014). *Bayesian near real-time earthquake source inversion*. In preparation.

SKILLS AND INTERESTS

Basic Knowledge: Javascript, HTML, CSS, Spanish, Fortran
Intermediate Knowledge: Office, Linux, Ubuntu, C++, Java, Objective-C, svn
Expert Knowledge: C, Python, git, Mac OS X, L^AT_EX, Electric guitar

AWARDS AND ACHIEVEMENTS

2012	Warwick SIAM Student Chapter at UNIVERSITY OF WARWICK, Coventry Founded the Warwick SIAM Student Chapter.
2010	ASSEC Travel: ca. £500
2008–2012	NERC & EPSRC Ph.D funding: ca. £13,000 p.a.

RECENT TALKS AND POSTERS

DATE	PLACE	EVENT	TITLE
8/04/2014	KAUST	CES Seminar	Bayesian parameter estimation with an application to earthquake rupture constraints
24/07/2013	Raleigh Convention Centre	USNCCM12	Infinite Dimensional UQ in Model Inadequacy for a Convection-Diffusion Model Problem
21/05/2013	Snowbird Ski Resort	SIAM Conference on Applications of Dynamical Systems	Optimal Control in Lagrangian Data Assimilation
25/04/2013	ICES	Seminar	An introduction to git and GitHub
13/04/2013	Purdue University	Workshop on Inverse Problems in Scattering and Imaging	UQ for Lagrangian Data Assimilation
18/07/2011	Vancouver Convention Center	ICIAM 2011	Data Assimilation for the transport equation
04/04/2011	University of North Carolina at Chapel Hill	GMA seminar	MCMC and Lagrangian Data Assimilation
09/02/2011	University of Oxford	4th Annual Oxford SIAM Student Chapter	Data Assimilation for the transport equation
07/01/2011	University of Manchester	SIAM UKIE Meeting	Data Assimilation for the transport equation