

DAMON McDOUGALL

PERSONAL DATA

CITIZENSHIP: UK Citizen
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EDUCATION

PRESENT	Ph.D in MATHEMATICS, University of Warwick , Coventry Data Assimilation Advisers: Prof. A M STUART, Prof. C K R T JONES Expected completion date: Sep 2012
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

2010-2011	Lecturer at UNIVERSITY OF WARWICK, Coventry <i>Numerical Methods for C++</i> Lectured a two-part 20 week course for 50 Financial Mathematics MSc students. Wrote and marked a C++ project.
2008-2010	TA at UNIVERSITY OF WARWICK, Coventry <i>Programming for Scientists</i> Teaching Assistant for a Java module. Taught 150 first and second year undergraduate Mathematicians. Marked their homework.
2007-2008	Supervisor at UNIVERSITY OF WARWICK, Coventry <i>First Year Undergraduate Supervisions</i> Supervised two groups of four 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 <i>Investment Banking Technology</i> Worked 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. Kalman filtering and smoothing for linear wave equations with model error. *Inverse Problems*, 27(9):095008, Sept. 2011. ISSN 0266-5611. doi: 10.1088/0266-5611/27/9/095008. URL <http://iopscience.iop.org/0266-5611/27/9/095008>.

SKILLS AND INTERESTS

Basic Knowledge: Javascript, HTML, CSS, Spanish
Intermediate Knowledge: Office, Linux, Ubuntu, C++, Java, Objective-C
Expert Knowledge: C, Python, Mac OS X, \LaTeX , Electric guitar, English

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	NCEO & EPSRC Ph.D funding: ca. £13,000 p.a.

RECENT TALKS AND POSTERS

DATE	PLACE	EVENT	TITLE
13/02/2012	RENCI @ ITS Manning	DA Journal Club	Turning particle filters into rock stars: A review
24/01/2012	University of Delaware	MURI Meeting	Data Assimilation and Control
15/11/2011	SAMSI	DA in IPCC Level Models	CAM, DA and the IPCC
07/11/2011	RENCI @ ITS Manning	DA Journal Club	Monte Carlo sampling and Data Assimilation
30/09/2011	RENCI @ ITS Manning	Annual MCRN Meeting	Data Assimilation for the transport equation
18/07/2011	Vancouver Convention Center	ICIAM 2011	Data Assimilation for the transport equation
15/06/2011	University of Warwick	Postgraduate seminar	Monte Carlo sampling
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
09/06/2010	University of Warwick	Postgraduate seminar	Bayesian Data Assimilation for a toy model
04/12/2009	University of Warwick	Reading/Warwick DA meeting	Model error in wave propagation problems
18/11/2009	University of Warwick	Postgraduate Open Day	Mathematics of climate change