
CURRICULUM VITÆ

13 June 2017

Dr Jean Noël Renaud

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born on the 5th of April 1973
British and French citizenships

Current position

Lecturer in Applied Mathematics, University of St Andrews.

Education

- 1991 Baccalauréat Série C (Maths & Physics) (Lycée Beauissier, La Seyne sur Mer)
- 1991/93 Advanced Classes in Mathematics to prepare entrance to the French 'Grandes Ecoles'
— Mathématiques Supérieures, lycée Dumont d'Urville, Toulon, France.
— Mathématiques Spéciales P', lycée Dumont d'Urville, Toulon, France.
- 1996 Engineering degree (M.Eng) in Aeronautics, 'Ecole Nationale Supérieure d'Ingénieurs de Constructions Aéronautiques' (ENSICA, now ISAE), Toulouse, France.
- DEA (M.Sc) in Fluid Mechanics, Toulouse, distinction *très bien*.
— Dissertation: *Résolution lagrangienne des équations d'Euler bidimensionnelles par méthode vortex*. Supervisor : Dr L. Joly
- 2000 Ph.D in Fluid Dynamics, Institut National Polytechnique de Toulouse, distinction *très honorable*. Thesis awarded the *prix Léopold Escande*.
— Dissertation: *Analyse physique par simulations numériques lagrangiennes de couches de mélange à densité variable*. Supervisors : Prof P. Chassaing & Dr L. Joly.

Positions held

- 1996/97 National service. Centre d'Essais de la Méditerranée, Ile du Levant.
Engineer.
- 1 Oct 2000 / 31 Aug 03 University of St Andrews, Vortex Dynamics research group.
Research Fellow funded by the UK EPSRC.
- 1 Sep 2003 / University of St Andrews, School of Mathematics and Statistics.
Lecturer in Applied Mathematics.

Postgraduate/Postdoctoral supervision

Mr Amit Kiran, MSc student “Interactions between two atmospheric Quasi-Geostrophic Vortices” (graduated in 2004, PhD student at the University of Warwick).

Dr Ross Bambrey, PhD student “Strong Vortex interactions in Quasi-Geostrophic Flows” (co-supervisor: D.G. Dritschel), October 2003 – May 2007.

Dr Ersin Ozugurlu, Postdoctoral research fellow “A comprehensive exploration of vortex interactions in geophysical flows.”, September 2004 – June 2006, now assistant professor in Turkey.

Dr David Devlin, PhD student “An investigation into the use of balance in operational numerical weather prediction” (co-supervisor: M. Cullen, Met Office) 2005/2011.

Dr William McKiver, Postdoctoral research fellow “The structure, stability and interaction of geophysical vortices ” (co-workers: D. Dritschel, R. Scott), January 2010 - January 2011.

Dr Yue-Kin Tsang, Postdoctoral research fellow “The structure, stability and interaction of geophysical vortices ” (co-workers: D. Dritschel, R. Scott), September 2011 - July 2013.

External PhD examination

External examiner for the PhD of Alan Hinds (University of London), 2007.

Internal PhD examination

Internal examiner for the PhD of Jemma Shipton (2010), Louise Smy (2011), Daniel Lucas (2012).

Award

2001 *Léopold Escande* Ph.D thesis prize from the scientific council of the Institut National Polytechnique de Toulouse.

Grants

2004/2006 *A comprehensive exploration of vortex interactions in geophysical flows.*
UK Engineering and Physical Sciences Research Council, £96, 683.

2005/2008 *Numerical Study of Atmospheric and Oceanic Models.*
UK Engineering and Physical Sciences Research Council, £52, 892
Met Office £16, 950

2009/2012 *The structure, stability and interaction of geophysical vortices.*
UK Engineering and Physical Sciences Research Council
(PI, with Co-Inv Dr Richard Scott & Prof. David Dritschel), £382, 762

Refereeing: Journal of Fluid Mechanics, Journal of Atmospheric Sciences, Canadian Journal of Physics, Fluid Dynamics Research, Physics of Fluids, Geophysical and Astrophysical Fluid Dynamics, Non Linear Processes in Geophysics, European Journal of Applied Mathematics, Ocean Modelling, Journal of Engineering Mathematics, Deep-Sea Research Part I, Geophysical Research Letters, Fluids, Chaos, Journal of Geophysical Research - Atmospheres, Revista Mexicana de Física. Also reviewer for EPSRC and NSF and ERC Alliance grants.

Reviewing: Mathematical Reviews (AMS).

Memberships:

- 2006 - Elected member of the Edinburgh Mathematical Society.
- 2016/17 - Member of the EPSRC Peer Review Associate College
- 2017 - Member of the EPSRC College