

Dr. Richard Danyi
Mechanical Engineering
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Research interests

I am Lecturer in Engineering Mathematics. My main research area is Hydrodynamic Stability Theory with interest in aspects of fluid stability and high Reynolds number flows. I am also interested in use and application of Mathematics and Differential Equations in Engineering problems.

Qualifications

Fellow of Higher Education, PG Cert in Teaching and Learning in Higher Education, Keele University
Award Date: 1 Aug 2018

PhD Applied Mathematics, Global Instabilities of Stratified Mixing Layers Created by Confinement, Keele University
Award Date: 1 Jul 2018

BSc Mathematics and Physics, BSc Mathematics and Physics, Keele University
Award Date: 1 May 2012

Employment

Lecturer in Engineering Mathematics

Mechanical Engineering
Glasgow Caledonian University
Glasgow, United Kingdom
28 Jan 2021 → present

Lecturer in Mathematics

University of Hull
United Kingdom
1 Mar 2020 → 1 Jan 2021

Teaching Fellow in Mathematics

University of Hull
United Kingdom
1 Jan 2019 → 1 Feb 2020

Teaching Fellow in Mathematics

Keele University
United Kingdom
1 Aug 2017 → 1 Dec 2018

Sessional Teacher in Mathematics

Keele University
United Kingdom
1 Aug 2016 → 1 Aug 2017

Grants

£600, June 2018, awarded to support travel to the international summer school in Prague, Czech Republic, "Waves in Flows".

Conference Presentations

R. Danyi. Global instabilities of stratified mixing layers created by confinement. Summer school, "Waves in Flows", August 2018, Prague, Czech Republic

R. Danyi. Absolute instabilities of stratified mixing layers created by confinement. Faculty of Natural Sciences' Postgraduate Research Symposium, 2016, Keele

R. Danyi. Global instabilities of stratified mixing layers created by confinement. The 4th Joint British Mathematical Colloquium & British Applied Mathematics Colloquium, 30th March - 2nd April 2015, Cambridge, UK

R. Danyi. Absolute instabilities of stratified mixing layers created by confinement. Department of Mathematics, Internal Postgraduate Research Seminars, 2015, Keele

Professional Experience

Institute of Applied Physics of the Russian Academy of Science, Nizhny Novgorod, Russia.

Secondment June, 2014 - July, 2014. Collaborative work on the processes in the air/water interface with the use of experimental set-up and field work.

Teaching Modules Experience

Level 7 (MSc): Hydrodynamics Stability Theory, Projects.

Level 6 (BSc): Fluid Mechanics, Projects, Partial Differential Equations, Non-linear Differential Equations (Dynamical Systems)

Level 5 (BSc): Differential Equations, Complex Variables, Vector Calculus, Analysis, Computational Mathematics (Introduction to Matlab).

Level 4 (BSc): Calculus, Algebra, Probability and Statistics (Operational Research).

Computer Skills

OS: Linux/Unix, Windows.

Languages: Latex, Python (basics)

Software: Mathematica, Matlab (basics), MAPLE-TA, Open Office, MS-Office.

Languages

Czech and Slovak (native), English (fluent), German (basics), Russian (basics), Hungarian (basics), Polish (basics).