

FACULTY NEWS BULLETIN

28 April 2020



ANNOUNCEMENTS

The University's coronavirus pages are being updated frequently with more information and advice, please click [here](#) for more information.

PhD Approvals

Many congratulations to the following students who have recently completed their PhD's:

Susan Connolly	DPMMS	Beyond Parameter Estimation: Analysis of the Case-Cohort Design in Cox Models
Martina McMenamin	DPMMS	Statistical Methods to Improve Efficiency in Composite Endpoint Analysis
Yujun Qiao	DAMTP	A Multiplicative Regularisation Approach to Inverse Problems
Jacob Smith	DAMTP	Timescales of processes controlling water vapour entry to the stratosphere

Congratulations to Jack Thorne and Hugh Osborn who have just been elected [Fellows of the Royal Society](#).

Congratulations to John Taylor who has been awarded the [Pilkington Prize](#) in recognition of his contribution to teaching excellence.

Congratulations to Roland Bauerschmidt and Ewain Gwynne for jointly being awarded the Rollo Davidson Prize 2020. Roland for a series of advances in scaling limits for statistical field theory and random matrices and Ewain in recognition of his outstanding work in conformal probability.

NRICH

In response to school closures due to the COVID-19 pandemic, NRICH are actively working to support home educating school students - and their parents/carers - and teachers working remotely. There has been a surge in use of our online mathematics education resources: in particular, the NRICH website (<https://nrich.maths.org>) is currently attracting around 1.25 million page views a week.

NRICH resources cover all stages of Early Years, primary and secondary education for ages 3 to 19, focusing on developing mathematical thinking and transferable problem-solving skills. The entire NRICH site is freely accessible and actively being used, and they have also been working to create emergency packages of resources to support independent learning.

At the start of April an urgent call went out to the scientific modelling community to help the fight against the COVID-19 pandemic. The call is being coordinated by the Royal Society and led by a small group of academics including DAMTP's Mike Cates and Julia Gog. Read [here](#) for more information.



Mihaela van der Schaar's research team has partnered with NHS Digital to help hospitals in England respond to the COVID-19 pandemic. Four NHS trusts, including Cambridge University Hospitals, will trial a machine learning model designed to predict demand for scarce resources like ventilators and ICU beds. Following the initial trial phase, the model could be rolled out further across England's healthcare system.

"Professor van der Schaar's lab at the University of Cambridge is recognised as the UK's and possibly the world's leading team creating new methods in machine learning applied to address real-world medical problems," says Dr Jem Rashbass, Executive Director for Master Registries and Data at NHS Digital. "We recognised that there was an opportunity to industrialise the methods and deploy this as a service through the national infrastructure managed by NHSD and deliver a real data-driven planning tool to hospitals."

For more information, click [here](#).



Library Guide

Without the ability to currently use the library, the Physical Sciences Libraries have put together an [essential guide](#) to give you the know how of where to find and access the information you need.

ACTIVITIES

Biodiversity Month

As part of Spotlight on Biodiversity month this April, Environment and Energy are hosting a Biodiversity Photography Competition. The competition is open to all University and College staff. Winning images will be displayed on the Environment and Energy team's website, social media and newsletter. For the rules and to find out more information click [here](#). The closing date for entries is 1 May.

Botanic Garden

The Botanic Garden have a number of activities on their website. Join them for a [wellness wander](#) around their gardens, take part in some [family activities at home](#), this is usually updated every Thursday, or get some [top tips and advice for gardening](#) with a series of videos made their horticulture and learning teams to show what they are doing in their own gardens at home.

Museum of Zoology

The Museum of Zoology website has a range of exciting [activities](#) including wildlife from your window, a nature classroom for 5-11 years olds and our changing planet.

University Sports Centre

The University Sports Centre are [posting articles](#) with advice for individuals and families about how to keep fit while staying at home

GENERAL INFORMATION

Well Being

Since the outbreak of coronavirus (COVID-19), many of us are anxious about our health, both physical and mental, and that of our loved ones. The University is doing all it can to support members of the University collegiate community during this time. Please see the link [here](#) about the support available.

Whilst we are getting used to working away from CMS, the University has produced some guidance on [working remotely and looking after our well being](#).

Staff from the Winton Centre teamed up with Facilities in late autumn to plant these tête-à-tête daffodils in a barren area near to the CMS turning circle. They made it through to flowering despite the late planting and poor soil and we hope you will all be able to enjoy them properly in future years.

