

James A. J. Rynn

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James Rynn

Numerical Analyst, Mathematician & Statistician

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About me I have recently submitted my PhD thesis '*On the Use of a Stochastic Galerkin Surrogate to Accelerate the Solution of PDE-Based Bayesian Inverse Problems*' and am awaiting my defence. I wish to start a career in the field of Data Science which allows me to solve challenging real world problems using contemporary technologies and methodologies.

Education

The University of Manchester (UoM), Manchester 2015 – present
PhD in Mathematics. Industrial CASE Award PhD studentship with the National Physical Laboratory (NPL)

The University of Bath (UoB), Bath 2011 – 2015
MMath Undergraduate Masters in Mathematics. 1st Class (Hons)

Runshaw College, Leyland 2009 – 2011
A-Levels in Mathematics (A*), Further Mathematics (A*), Physics (A*) & ICT (A)

Albany Science College, Chorley 2004 – 2009
13 GCSEs grade A*–A inc. Mathematics (A*), English Literature (A*) & English Language (A)

Publications

J. A. J. Rynn, C. E. Powell, S. L. Cotter and L. Wright, *Surrogate Accelerate Bayesian Inversion for the Determination of the Thermal Diffusivity of a Material*, Metrologia, 56 (2019), p. 015018.

Selected Talks and Conferences

Invited Talks

- Data Science Group Seminar @ IBM Research, Daresbury 27 Mar 2019

Conference Talks

- SIAM Conference on Uncertainty Quantification 2018 (UQ18) @ Hyatt Regency Orange County, California 16 Apr 2018
- Advanced Mathematical and Computational Tools in Metrology and Testing XI @ The University of Strathclyde, Glasgow 29 Aug 2017
- 27th Biennial Numerical Analysis Conference 2017 @ The University of Strathclyde, Glasgow 30 Jun 2017

Experience

National Physical Laboratory

- **Summer Placements**, three 1 month placements continuing studies whilst shadowing industrial supervisor and participating in Data Science team routine

Jul 2016, Aug 2017, Aug 2018

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The University of Manchester

- **Supervisor for undergraduate mathematics courses**, assisting with classes of up to 50 students **Sep 2016 – Jun 2019**
- **Service course tutor**, leading classes of up to 30 non-mathematics students on undergraduate courses **Sep 2016 – Jun 2019**
- **Lead demonstrator**, leading a computer lab class of up to 80 students, marking coursework **Feb 2017 – Jun 2017**
- **Exam marker and invigilator** for various undergraduate courses in mathematics **Jan 2017 – Jun 2019**

The University of Bath

- **Tutor for undergraduate mathematics courses**, leading classes of up to 15 first year students, marking written work **Sep 2013 – Jun 2015**
- **Maths and Statistics Help Tutor**, supporting first year students with their studies at weekly drop-in sessions **Sep 2012 – Jun 2013**

Positions of Responsibility

- **Co-organiser** of the 'Informal Applied' seminar **Sep 2017 – Jun 2018**
- **UoM PG Student Rep** for Mathematics **Sep 2017 – Aug 2018**
- **Co-organiser** of Manchester Research Students' Conference **30 Sep 2016**
- **UoB UG Student Rep** for Mathematics (Elected) **Oct 2013 – May 2015**

Technical Skills

- MATLAB (Advanced)
- Mathematica (Advanced)
- LaTeX (Advanced)
- R (Intermediate)
- HTML (Intermediate)
- Microsoft Excel (Intermediate)
- Python (Intermediate)
- C++ (Past Experience)
- Julia (Past Experience)
- Familiarity with Windows, Linux and Mac OS operating systems

Miscellaneous

Prizes

- 'Best Student Presentation' at NAConf 2017 **30 Jun 2017**
- 'Ralph Hope Prize for Mathematics' at Runshaw College **12 Dec 2011**

Events & Organisation

- Co-organiser of the UK Maths Postgraduate Football Championship, sponsorship obtained from ATASS **30 Jul 2016**
- Organiser of UoM postgraduate 5-a-side football **Jan 2016 – Jun 2019**

Outreach & Charity

- Gave '*Mathematics: Degrees and Careers*' talk to over 60 local high school children as part of the Manchester Access Programme - UoM's flagship widening participation scheme **3 Jul 2019**
- Ran the Bath Half Marathon as part of a group of 12 former teammates raising money for Rainforest Concern **17 Mar 2019**
- Co-organiser of a UoM Staff v Students Charity Football Match raising money for Wood Street Mission **26 May 2018**
- Climbed Mount Kilimanjaro, raised £3000 for the Children's Society (individual total) **Jun 2014**

Interests

Football, running, travel, badminton, film and live music