Christopher Patrick (Paddy) Royall

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Employment

2021—	ESPCI Paris	**CNRS Director of Research**
2018-21	University of Bristol	**Professor of Chemical Physics**
2016-7	Kyoto University, Japan	Sabbatical
2015-		Reader (Associate Professor)
2009-	University of Bristol	Permanent appointment to Lecturer
2007-15		**Royal Society University Research Fellow (URF).**
2004-2006	University of Tokyo, Japan	**Japan Society for the Promotion of Science fellow**, with Prof Hajime Tanaka.
2002-2004	University of Utrecht, Netherlands	**Postdoctoral fellow**, with Prof Alfons van Blaaderen.
2001-2	UBS Warburg, London	Investment Banking**.** Marketing/development.

Education

1997-2001	University of Cambridge, (St Catharine's College)	**PhD in Physics,** with Prof Athene Donald, Polymers and Colloids Group. Graduated 12th May 2001.
1996-7	Gap Year	Long-distance sailing trip, UK to the Caribbean.
1992-6	University of Edinburgh	**BSc in Physics,** 1st class hons, graduated 10th July 1996

Publications. 134 publications, h-index 44. 8000 citations (Google Scholar). *Highlights:*

Royall CP, Charbonneau P, Dijkstra M, Russo J, Smallenburg F, Speck T and Valeriani C. "Colloidal Hard Spheres: Triumphs, Challenges and Mysteries", Accepted, *Rev. Mod. Phys.* (2024).

Zampetaki A, Yang, Y, Loewen, H and Royall CP "Dynamical Order and Many-Body Correlations in Zebrafish show that Three is a Crowd", *Nature Commun,* **15** 2591 (2024).

Mauleon-Amieva A, Allen MP, Liverpool TB and Royall CP, "Dynamics and Interactions of Quincke Roller Clusters: from Orbits and Flips to Excited States", *Sci. Adv.* **9** eadf5144 (2023).

Ortlieb L, Ingebrigtsen TS, Hallett JE, Turci F and Royall CP "Probing excitations and cooperatively rearranging regions in deeply supercooled liquids", *Nature Commun.* **14** 2621 (2023).

Ferreiro-Córdova C, Royall CP, van Duijneveldt JS, "Anisotropic viscoelastic phase separation in polydisperse hard rods: non-sticky gelation", *Proc. Nat. Acad. Sci.* **117** 3415 (2020).

Hallett JE, Turci F and Royall CP, "Local structure in deeply supercooled liquids exhibits growing lengthscales and dynamical correlations", *Nature Comms,* **9** 3272 (2018).

Williams I, Oguz EC, Speck T, Bartlett P, Loewen H and Royall CP "Transmission of torque at the nanoscale", *Nature Physics* **12** 98–103 (2016).

Royall CP, Williams SR, Ohtsuka, T and Tanaka H, "Direct observation of a local structural mechanism for dynamic arrest", *Nature Materials* **7**, 556-561, (2008).

Leunissen ME, Christova CG, Hyninnen A-P, Royall CP, Campbell AI, Imhof A, Dijkstra M, van Roij R and van Blaaderen A, "Ionic colloidal crystals of oppositely charged particles", *Nature* **437**, 235 (2005).