

Samuel C. Crew

Final year PhD Student - University of Cambridge

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Research interests Integrability in supersymmetric quantum field theory. Specifically, geometric representation theory of quiver varieties and the relation to supersymmetric indices.

Education **University of Cambridge** - Trinity College (2016 -)
PhD, Applied Mathematics and Theoretical Physics.
Supervisor: Prof. Nick Dorey

University of Oxford - Lincoln College (2015 - 2016)
MMathPhys, Mathematical and Theoretical Physics.
Advisor: Prof. Xenia de la Ossa
Distinction (92%) - Ranking: 1st

University of Oxford - Lincoln College (2012 - 2015)
BA (Dual classification), Mathematics.

Colston's School - Bristol (2001-2012)

Awards **Stansbie Prize** (2016) - *University of Oxford*
The Stansbie Prize is awarded for the best performance in a science Final Honours School

Lord Crewe Scholarship (2015)
Lincoln College, University of Oxford

Examination Prize (2016)
MMathPhys Examiners, University of Oxford

Publications **2016**

Crew, S. C. & Trinh, P. H. 2016 New singularities for Stokes waves. *J. Fluid Mech.* **798**, 256-283.

In preparation

Crew, S. C., Dorey, N. & D. Zhang - *Factorisation of the topologically twisted index and the geometry of quasimap spaces*

Crew, S. C. & Dorey, N. - *Representation theory of quantum affine algebras and Coulomb branch Hilbert series*

Talks

Localisation reading group "*Localisation of the $\mathcal{N} = 2$ topologically twisted index*"

Grad seminar "*Quiver varieties and the AGT correspondence*"

BAMC 2017 "*New singularities in Stokes' waves*"

Teaching

Part IB (2nd year) - Nat. Sci. Mathematics

Part II (3rd year) - Classical dynamics, general relativity

Part III (Master's level) - Symmetries, fields and particles

Other

Olympiad Mathematics - Mentor for the UK Maths trust.

Music - Drums and treasurer for Cambridge University Jazz Orchestra

Sport - Cycling and running - Cambridge university cycling

Languages - French B2 level.