

PHD STUDENT RESEARCH SUPERVISION

- Ph.D. = Doctoral dissertation
- M.Sc. = Master of Science dissertation
- CDT MP = ESPRC Doctoral Training industrial mini project
- SumRes = Summer research project
- MMath = 4th year dissertation or equivalent
- BA Math = 3rd year dissertation or equivalent

YEAR	STUDENT	SCHOOL	TYPE	PROJECT TITLE	COMMENTS
2018–Present	Josh Shelton	Bath	Ph.D.	Free-surface flows near a singular limit	Co-advised with P.A. Milewski
2018–Present	Yyanis Johnson-Llambias	Bath	Ph.D.	Singular perturbations in wave-structure interactions	Co-advised with P.A. Milewski
2017–Present	Joseph Harris	Bath	Ph.D.	Singularities in nematic liquid crystals	Co-advised with Apala Majumdar
2016–Present	Clint Wong	Oxford	Ph.D.	Fluid flows through vegetations	Co-advised with S.J. Chapman
2015–Present	Helen Fletcher	Oxford	Ph.D.	Active wave absorption for polychromatic waves	Co-advised with S.J. Chapman & J. Whiteley
2016	Davin Lunz	Oxford	CDT MP	Prediction of bulk properties from microstructure	Co-advised with J. Chapman & M. Bruna
2012–2016	Naima Hammoud	Princeton	Ph.D.	On instabilities in thin film flows	Co-advised with H.A. Stone

UNDERGRADUATE, MMATH, AND MSC RESEARCH SUPERVISION

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2018–2019	Christopher Blake	Bath	MMath	Free-surface flows over rapidly-varying topographies	
2018–2019	Jackson Phoong	Bath	MMath	Mathematical modeling of optical fibres	
2018–2019	Reuben Russell	Bath	MMath	The multidimensional method of steepest descents	
2017–2018	Emily Flicos	Oxford	MMath	Steep standing waves and the Penney-Price conjecture	
2017–2018	John Fitzgerald	Oxford	MMath	Stokes surfaces in nonlinear three-dimensional flows	
2017–2018	Bryn Davies	Oxford	MMath	Exponential asymptotics and snaking bifurcation diagrams	
2017–2018	Liza Hadley	Oxford	MMath	Finding Neptune	
2017–2018	Charles Hutchings	Oxford	BA Math	The Abel impossibility theorem	
2016–2017	Thomas Chandler	Oxford	MMath	On the separation between free surface and rigid wall	
2016–2017	Yyanis Johnson-Llambias	Oxford	MMath	Bifurcations in water waves in finite depth	Summer funding from Lincoln College
2016–2017	Oliver Mulley	Oxford	MMath	Gravity-capillary waves with vorticity	
2016–2017	John Fitzgerald	Oxford	BA Math	Numerical methods for complex rays	Summer funding from Lincoln College
2016–2017	Charlie Hutchings	Oxford	BA Math	On the Bender-Wu problem and hydrodynamics	
Summer 2016	Thomas Chandler	Oxford	SumRes	Splash models for breaking waves	Funded by EPSRC CDT InFoMM
2015–2016	Sean Jamshidi	Oxford	MMath	Searching for new gravity-capillary waves	Presented BAMC 2016 (Oxford, UK)
2015–2016	Thomas Chandler	Oxford	MMath	Splash models for flows near the bow of a ship	Presented BAMC 2016 (Oxford, UK)
Summer 2015	Samuel Crew	Oxford	SumRes	New singularities for Stokes waves	Presented BAMC 2016 (Oxford, UK) Crew & Trinh (2016) J. Fluid Mech.
2014–2015	Amy Guyomard	Oxford	M.Sc.	The multi-dimensional method of steepest descents	
2014–2015	Alexander Gower	Oxford	MMath	Phase field models and the thin film limit	
2014–2015	Benjamin Whitlock	Oxford	MMath	Models for thin film flows on curved surfaces	
2014–2015	Jamie Cruickshank	Oxford	MMath	Tissue growth in a mono-layered epithelium	Co-advised with S. Waters
2013–2014	Lucy Auton	Oxford	MMath	Multiple scales for discrete difference equations	Co-advised with C. Hall
2013–2014	Thomas Pettifor	Oxford	MMath	Discrete and continuum models for in vitro tissue growth	Co-advised with S. Waters
2013–2014	Melissa Varney	Oxford	MMath	Mathematical models for the wrinkling of thin sheets	Co-advised with D. Vella
2013–2014	Stephanie Yayoi Teramoto	Princeton	MMath	Stability of patterns in reaction-diffusion equations	Winner SIAM 2013 contest for Teaching Dynamical Systems
2011–2012	Rafael Y. Grinberg	Princeton	MMath	Topics in real analysis	Departmental thesis award
2011–2012	Daniel Wu	Princeton	BA Math	Functional analysis and applications to potential theory	