

## People - Mathematics

This page contains details of some of the people from the School of Mathematics that are involved in the CMMCE.

### [Dr John Leach \(/staff/profiles/math/leach-john.aspx\)](/staff/profiles/math/leach-john.aspx)

Research Interests: Reaction-diffusion theory, hyperbolic reaction-diffusion theory, asymptotic methods, dynamical systems.

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### [Dr David Leppinen \(/staff/profiles/math/leppinen-david.aspx\)](/staff/profiles/math/leppinen-david.aspx)

Research Interests: Free surface flows, convective and buoyant flows, numerical simulation.

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### [Dr Daniel Loghin \(/staff/profiles/math/loghin-daniel.aspx\)](/staff/profiles/math/loghin-daniel.aspx)

Research Interests: dynamics, numerical methods, algorithm design for large-scale computations.

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Research Interests: Computational fluid

### [Professor David Needham \(/staff/profiles/math/needham-david.aspx\)](/staff/profiles/math/needham-david.aspx)

Research Interests: Reaction-diffusion theory, nonlinear waves, asymptotic methods, alluvial hydraulics, hydrodynamics, dynamical systems, applied analysis.

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### [Dr David Smith \(/staff/profiles/math/smith-david.aspx\)](/staff/profiles/math/smith-david.aspx)

Research Interests: Low Reynolds number fluid mechanics of cilia and flagella, numerical simulation of particle tracking and advection-diffusion of chemicals.

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### [Dr Jamal Uddin \(/staff/profiles/math/uddin-jamal.aspx\)](/staff/profiles/math/uddin-jamal.aspx)

Research Interests: Free surface hydrodynamics, rupture of liquid threads and films, droplet formation, industrial mathematics, asymptotic structures coating and micro-fluidics.

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