Shocks, Solitons and Turbulence Unit (Emile Touber)

FY2019 Annual Report

Shocks, Solitons and Turbulence Unit Associate Professor Emile Touber

Abstract

The Shocks, Solitons and Turbulence (S2T) Unit carries theoretical and computational studies of energy transfers and transport arising from shock/solitary waves and turbulence. We work on a variety of problems (from cosmic to biological scales) expressed in terms of (i) fields obeying some form of conservation laws, (ii) closed using physics-based or simple behavioral arguments, (iii) and found in a turbulent and/or shocked regime. Our current activities are articulated around three main themes: complex fluids, active fluids, analogous fluids.

1 Staff

- Emile Touber, Associate Professor
- · Stephen Winn, PhD student visiting from Imperial College London
- Saori Chappell, Research Unit Administrator

2. Collaborations

Nothing to report.

3. Activities and Findings

Nothing to report.

4. Publications

Nothing to report.

5. Intellectual Property Rights and Other Specific Achievements

Nothing to report.

6. Meetings and Events

Nothing to report.

7. Other

Nothing to report.