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Research field: Differential equations, Functional Analysis / Real Analysis, Applied mathematics

Keywords: Navier-Stokes equations, Euler equations, geophysics, turbulence

Current research: I am working on differential equations of fluid mechanics, mainly on the Navier-Stokes and Euler equations. The fluid mechanics are related to various study fields such as physics of fluid turbulence and engineering. These various interdisciplinary interactions attract me a lot. If you are interested in my study group, I recommend you to read, for example, *Vorticity and Incompressible flow* (Majda-Bertozzi 2002) and/or *Perfect incompressible fluids* (Chemin 1998). These are good fundamental books of mathematical fluid theory. If you have already studied Lebesgue integral and functional analysis, then I think you can read them smoothly.

Notice for the students: Students who prefer interdisciplinary communications are highly welcome to my research group.