Andrew D. Bragg

Department of Civil and Environmental Engineering
Duke University, Durham, NC 27708
Email: andrew.bragg@duke.edu; Phone: (919) 684 5867.

Current Position

- Assistant Professor, Duke University, December 2016-present.

Education & Professional Preparation

- PhD, Newcastle University, Theoretical Fluid Dynamics, 2012.
- Post-Doctoral Associate, Cornell University, Sibley School of Mechanical & Aerospace Engineering, 2012-2015.
- Post-Doctoral Associate, Los Alamos National Laboratory, Applied Mathematics & Plasma Physics, 2015-2016.

Selected Publications

- A.D. Bragg, "Analysis of the forward and backward in time pair-separation probability density functions for inertial particles in isotropic turbulence," Journal of Fluid Mechanics, Vol. 830, pp. 63-92, 2017.
- A.D. Bragg, P.J. Ireland, L.R. Collins, "Forward and backward in time dispersion of fluid and inertial particles in isotropic turbulence," Physics of Fluids, Vol. 78, 013305, 2016.
- A.D. Bragg, L.R. Collins, "New insights from comparing statistical theories for inertial particles in turbulence: I. Spatial distribution of particles," New Journal of Physics, Vol. 16, 055013, 2014.
- P.J. Ireland, A.D. Bragg, L.R. Collins, "The effect of Reynolds number on inertial particle dynamics in isotropic turbulence. Part 1. Simulations without gravitational effects," Journal of Fluid Mechanics, Vol. 796, pp. 617-658, 2016.
- P.J. Ireland, A.D. Bragg, L.R. Collins, "The effect of Reynolds number on inertial particle dynamics in isotropic turbulence. Part 2. Simulations with gravitational effects," Journal of Fluid Mechanics, Vol. 796, pp. 659–711, 2016.