

Jeffrey Wong

CONTACT INFORMATION	Duke University Department of Mathematics Durham, NC 27708 <i>Email:</i> jtwong@math.duke.edu <i>Website:</i> http://www.math.duke.edu/~jtwong/
RESEARCH INTERESTS	Stability of thin liquid films; suspension and multiphase thin film flows. Asymptotics and numerical methods for non-linear diffusion problems.
EMPLOYMENT	Duke University Griffiths Assistant Research Professor, Fall 2017-Present
EDUCATION	University of California, Los Angeles , Los Angeles, California Ph.D., Applied Mathematics (June 2017) Thesis: Thin-film models for viscous suspension flows (Advisor: Dr. Andrea Bertozzi) Harvey Mudd College , Claremont, California B.S. in Mathematics (June 2011)
HONORS/AWARDS	UCLA Dissertation Year Fellowship, 2016-17
PUBLICATIONS	Mavromoustaki, A., L. Wang, J. Wong and A. L. Bertozzi. <i>Modeling and simulation of particle-laden flow with surface tension</i> Nonlinearity Vol. 31 No. 7, 2018. J. Wong and A. L. Bertozzi, <i>A conservation law model for bidensity suspensions on an incline</i> . Physica D (2016): 47-57. Lee, S., J. Wong and A. L. Bertozzi. <i>Particle laden flows of bidensity suspensions</i> . Mathematical Modeling and Numerical Simulation of Oil Pollution Problems, The Reacting Atmosphere Volume 2, pp. 85-97, Mattias Ehrhardt, Ed., 2015. Levy, R., S. Rosenthal and J. Wong. <i>Engineering flow states in a Marangoni-driven thin film with localized forcing</i> . Phys. Rev. E, Vol. 82, No. 5, 2010.
CONFERENCE PRESENTATIONS	<i>Particle-Laden Viscous Flow on An Incline: Singular Shock Solutions and Surface Tension Effects</i> . SIAM Annual Meeting, Boston, MA, July 2016. <i>Surface tension models for particle laden thin films</i> . APS March Meeting, Baltimore, MD, 2016. <i>Shock dynamics for bidensity suspensions on an incline</i> . APS DFD, San Francisco, CA, Nov. 2014. <i>Numerical modeling of bidensity suspensions in gravity-driven, thin-film flows</i> . APS DFD Meeting, Pittsburgh, PA, Nov. 2013.
TEACHING EXPERIENCE	Duke University Math 361S: Mathematical Numerical Analysis, Spring 2018 Math 353: Ordinary and Partial Differential Equations, Fall 2017 University of California, Los Angeles Mentor, REU Program (Research Experience for Undergraduates), Summer 2015 and 2016. Teaching Assistant: Math 134 (Nonlinear Systems of ODEs), Spring 2016. Math 142 (Mathematical Modeling), Fall 2015. Math 151 (Applied Numerical Methods), Fall 2014 - Spring 2015, Winter 2016