

Joshua Zahl

CONTACT INFORMATION	UCLA Department of Mathematics Los Angeles, CA 90095-1555 jzahl@math.ucla.edu
RESEARCH INTERESTS	Classical harmonic analysis, maximal functions, discrete and combinatorial geometry.
EDUCATION	University of California, Los Angeles Ph.D. Candidate, Mathematics (expected graduation date: June 2013) <ul style="list-style-type: none">◦ Advisor: Terence Tao M.A., Mathematics, 2010 California Institute of Technology B.S., Mathematics, 2008
HONORS AND AWARDS	National Defense Science and Engineering Graduate Fellowship (NDSEG), 2010–2013 National Science Foundation Graduate Research Fellowship Program (NSF GRFP). Deferred to accept NDSEG Caltech Upper Class Merit Award, 2007
TEACHING EXPERIENCE	University of California, Los Angeles <i>Teaching Assistant</i> , September 2008 – December 2009 <ul style="list-style-type: none">Math 245b graduate real analysisMath 245a graduate real analysisPIC 10c advanced C++ and introductory C#Math 32a multivariate differential calculusPIC 10a introductory C++
PUBLICATIONS	On the Wolff circular maximal function. Submitted. An improved bound on the number of point-surface incidences in three dimensions. Submitted. L^3 estimates for an algebraic variable coefficient Wolff circular maximal function. Accepted, <i>Revista Mat. Iber.</i> Bounds on degrees of p-adic separating polynomials. (with D. Katz). <i>J. Comb. Theory Ser. A</i> , 115:1310-1319, 2008. On universal cycles for multisets. (with G. Hurlbert and T. Johnson). <i>Discrete Math.</i> , 309::5321-5327, 2009. Evaluation of a Deposit Erosion Model for Heat Transport System Crud Formation (with L. Wong, S. Murphy, and D. Gonzolas). <i>Atomic Energy of Canada Limited</i> , internal publication, 2002.
INVITED TALKS	A variable coefficient Wolff circular maximal function. AMS Fall Western Section Meeting, Special Session on Harmonic Analysis and Dispersive Partial Differential Equations. University of Utah, Salt Lake City, UT. October 2011.