

Biographical Sketch

Jeremy Marzuola

October 8, 2006

Professional Preparation:

University of Oklahoma 2002, B.A. in Mathematics, summa cum laude. Minor in Physics.

University of California, Berkeley Ph.D. candidate in Mathematics, expected graduation date May 2007, under the supervision of Professor Daniel Tataru.

Appointments:

Graduate Student Instructor/Researcher - UC Berkeley 2002-2006

Publications and Preprints:

“Soliton splitting by external delta potentials,” (with Justin Holmer and Maciej Zworski) submitted to *Journal of Nonlinear Science*, 2006.

<http://math.berkeley.edu/~marzuola/hmz.pdf>

“Fast soliton scattering by delta impurities,” (with Justin Holmer and Maciej Zworski), submitted to *Communications in Mathematical Physics*, 2006.

<http://math.berkeley.edu/~marzuola/hmz2.pdf>

“Nonconcentration of eigenfunctions for partially rectangular billiards,” *Comm. Partial Differential Equations* **31** (2006), 775–790.

Synergistic Activities:

Journal Referee: *Journal of Computational Physics*

Student PDE/Analysis Seminar Co-Organizer: UC Berkeley, 2004

UCLEADS Undergraduate Student Mentor: 2004

(Assisted my advisor, Daniel Tataru, in the mentoring of a student in the study of nonlinear dispersive equations.)

Professional Development Program Instructor: 2003-2005

(This program is specifically designed to fit the needs of students who have an interest in mathematics and science, but may have had a weaker mathematical background. The discussion section meets five hours per week instead of the usual three and the directors ask that the class materials all be developed uniquely for each class.)

Collaborators & Other Affiliations:

Collaborators:

Matt Blair - Johns Hopkins University, Justin Holmer - UC Berkeley, Jason Metcalfe - UC Berkeley, Sarah Raynor - Wakeforest University, Daniel Tataru - UC Berkeley, Doug Wright - University of Minnesota, Maciej Zworski - UC Berkeley

Thesis Advisor:

Daniel Tataru - UC Berkeley