

# Diogo Oliveira e Silva

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CONTACT INFORMATION	Department of Mathematics University of California at Berkeley 1075 Evans Hall Berkeley, CA 94720-3840, USA	<i>Phone:</i> +1 (510) 642-6550 <i>E-mail:</i> dosilva@math.berkeley.edu <i>www:</i> <a href="http://math.berkeley.edu/~dosilva/">http://math.berkeley.edu/~dosilva/</a>
DATE OF CV	November 2011	
CITIZENSHIP	Portuguese	
RESEARCH INTERESTS	Harmonic analysis, partial differential equations	
EDUCATION	<b>University of California at Berkeley, USA</b> Ph.D. in Mathematics (expected graduation date: May 2012) <ul style="list-style-type: none"><li>• Advisor: Michael Christ</li></ul> <b>University of Porto, Portugal</b> B.S. in Mathematics, July 2006 <ul style="list-style-type: none"><li>• Final score: 19/20</li></ul>	
HONORS AND AWARDS	University of California, Berkeley <ul style="list-style-type: none"><li>• Pinto-Fialon graduate fellowship, 2007-present</li></ul> Fundação para a Ciência e a Tecnologia <ul style="list-style-type: none"><li>• Graduate fellowship (BD), 2007-2011</li></ul> University of Porto <ul style="list-style-type: none"><li>• Prize “Eng. António de Almeida”, 2007</li><li>• Prize “Dr. Neves Real”, 2007</li><li>• Prize “Augusto Martins”, 2006</li><li>• Prize “Dr. Gomes Ribeiro”, 2006</li><li>• Prize “Prof. Abílio Aires”, 2006</li><li>• Prize “Prof. Dr. Jayme Rios de Sousa”, 2004</li></ul> Sociedade Portuguesa de Física <ul style="list-style-type: none"><li>• Prize “Mário Silva”, 2002</li></ul> Fundação Calouste Gulbenkian <ul style="list-style-type: none"><li>• Merit grant, 1999-2006</li></ul>	
ACADEMIC EXPERIENCE	<b>University of California at Berkeley, USA</b> <i>Graduate Student</i> <i>Graduate Student Instructor</i> <ul style="list-style-type: none"><li>• Math 202A: Introduction to Topology and Analysis (Fall 2011)</li><li>• Math 1B: Calculus 2 (Spring 2007)</li><li>• Math 1A: Calculus 1 (Fall 2006)</li></ul>	<b>August 2006 to present</b>

**University of Porto, Porto, Portugal**

*Undergraduate Student*

**September 2002 to July 2006**

- Erasmus in Technische Universität Berlin, Germany (Fall 2005)
- Math in Moscow, Independent University of Moscow, Russia (Fall 2004)

*Undergraduate Researcher*

**September 2002 to July 2004**

- Third and fourth editions of the program *Novos Talentos em Matemática*.

PAPERS AND  
PREPRINTS

D. Oliveira e Silva, *Extremals for a Fourier restriction inequality: planar curves*. In preparation.

M. Christ and D. Oliveira e Silva, *On trilinear oscillatory integrals*. Preprint, arXiv: 1107.2495.

A. Guedes de Oliveira and D. Oliveira e Silva. *Note on the integer geometry of bitwise XOR*. *European Journal of Combinatorics* **26** (2005), no. 5, 755-763.

RESEARCH TALKS **Instituto Superior Técnico, Lisbon, Portugal**

*On trilinear oscillatory integrals*, Analysis, Geometry and Dynamical Systems Seminar. **06/22/2011**

**University of California at Berkeley, USA**

*The restriction problem*, Harmonic Analysis and PDE Seminar. **04/27/2010**

EXPOSITORY  
TALKS

**University of California at Berkeley, USA**

*Boundedness of the Hilbert transform along one-variable vector fields*, Harmonic Analysis and PDE Seminar. **09/20/2011**

*Sharp bounds for weighted norm inequalities*, Harmonic Analysis and PDE Seminar. **09/28/2010**

*Multilinear oscillatory integrals*, Harmonic Analysis and PDE Seminar. **10/27/2009**

*The Brunn-Minkowski inequality and some consequences*, Harmonic Analysis and PDE Seminar. **03/18/2009**

*On the size of Kakeya sets*, Ergodic Theory/Additive Combinatorics/Harmonic Analysis Student Seminar. **09/24/2008**

CONFERENCES  
AND SUMMER  
SCHOOLS

**Summer School in Geometric and Fourier analytic questions in Euclidean space**, Lake Arrowhead, CA, USA **September 2011**

**Oscillatory integrals in harmonic analysis**, Edinburgh, UK **June 2011**

**“Analysis and Applications”**, Princeton, NJ, USA **May 2011**

**Journée d’Analyse Harmonique**, Orsay, France **January 2011**

**Southern California Analysis and PDE meeting**, Los Angeles, CA, USA **November 2010**

**Summer/Fall School in Weighted estimates for singular integrals**, Lake Arrowhead, CA, USA **October 2010**

<b>Harmonic analysis and related topics</b> , Lisbon, Portugal	<b>June 2010</b>
<b>Harmonic Analysis and Applications</b> , Seville, Spain	<b>June 2010</b>
<b>Summer School in Harmonic Analysis, Carleson Theorems and Multilinear Analysis</b> , Snowbird, UT, USA	<b>June 2009</b>
<b>“The Power of Analysis”</b> , Princeton, NJ, USA	<b>May 2009</b>

PROFESSIONAL  
ACTIVITIES

**University of California at Berkeley, USA**

*Organizer of the Harmonic Analysis and Differential Equations Seminar* (with B. Ettinger) **August 2010 to May 2011**

*Organizer of Mentor Lecture Series* (with S. Lin) **August 2007 to May 2008**

**American Mathematical Society**

*Member* **August 2006 to present**

**Sociedade Portuguesa de Matemática**

*Member* **August 2002 to present**

TECHNICAL SKILLS Programming: C++, Mathematica, Matlab, Maple

Applications:  $\text{\TeX}$ ,  $\text{\LaTeX}$ , Microsoft Office, and other common productivity packages for Windows and OS X

Operating Systems: Microsoft Windows XP/2000, Apple OS X

LANGUAGES

Portuguese (native), English (fluent), German (fluent), French (proficient), Spanish (working knowledge), Russian (working knowledge)