



Alex Aguado

CV

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Education

<i>Duke University</i>	Durham, NC
Ph.D. in Mathematics	Current
<i>Duke University</i>	Durham, NC
MS in Mathematics	2009
<i>Illinois State University</i>	Normal, IL
BS in Mathematics	2006
- University Honors Scholar (Summa Cum Laude)	
- Undergraduate thesis: <i>Cantor Sets, Antoine's Necklace and p-Adic Numbers</i> , 22 figs., 48 pp.	

Research Interests

Geometry/Topology, Manifolds, Combinatorics

Awards & Honours

Outstanding Senior Award	2006
Douglas & Dorothy Bey scholarship in mathematics	2005
NSF Undergraduate Research Fellowship	2004-2005
Certificate in University Honors	2003-2006
Honors Program Scholar	2003-2006

Publications

1. Alejandro Aguado, *On group designs and the social golfer problem*, In preparation.
2. Alejandro Aguado, *A short note on mapping cylinders*, arXiv:1206.1277v2 [math.AT], June 2012.
3. Alejandro Aguado, *Problem 1888*, Mathematics Magazine, vol. 85 no. 1, February 2012.
4. Alejandro Aguado and Saad I. El-Zanati, *On σ -labeling the union of three cycles*, Journal of Combinatorial Mathematics and Combinatorial Computing, vol. 64 (2008), pp. 33-48.
5. Alejandro Aguado, Saad I. El-Zanati, et al., *On ρ -labeling the union of three cycles*, The Australasian Journal of Combinatorics, vol. 37 (2007), pp. 155-170.
6. Alejandro Aguado, *A 10 days solution to the social golfer problem*¹, Math games: Social Golfer problem, by Ed Pegg Jr. (2004), MAA Online.

¹This work is cited in over 10 research papers and theses in mathematics and computer science.

Online Mathematical Writings

<i>Classification of surfaces and the TOP, DIFF and PL categories for manifolds</i> http://mathoverflow.net/questions/96670/classification-of-surfaces-and-the-top-diff-and-pl-categories-for-manifolds	2012
<i>Into how many parts do n ellipsoids divide \mathbb{R}^3?</i> http://math.stackexchange.com/questions/194078/into-how-many-parts-do-n-ellipsoids-divide-mathbbR3	2012

Work in Mathematics Publishing

Lead the preparation of a revised edition of <i>Morse Theory</i> by J. Milnor Created T _E X version of the manuscript, graphics, bibliography and index	Ongoing
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Recent Conferences

IAS/PCMI: Moduli Spaces of Riemann Surfaces	July 2011
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Teaching

Duke University Calculus Lab (TA)	Fall 2007 25 students
Duke University Calculus and Functions I (Instructor)	Fall 2008 28 students

Skills and Languages

T _E X, L ^A T _E X, METAPOST, TikZ	Advanced
JAVA, Maple	Mid-Advanced
English	Native fluency
Spanish	Native fluency
French	Intermediate
Italian	Intermediate
Korean	Beginner

Contributions

Volunteer at the Duke University Hospital (Assistant to Dr. Roger Velasquez)	2013
Member of the Duke University Cycling Club	2012
Founding the Duke University Parkour Club	2009
Participated in the creation of the REU program in mathematics at Illinois State University	2005