Jorge Alberto Calvo
Curriculum Vitae

Dept. of Mathematics & Physics	email:	jorge.calvo@avemaria.edu
Ave Maria University	web:	www.avemaria.edu/jcalvo
5050 Ave Maria Boulevard	work:	239.280.1608
Ave Maria, FL 34142	fax:	239.280.1637

Personal Data

Born 22 April 1971 in San José, Costa Rica; nationality: U.S.A.

Education

Ph.D., Mathematics — 12 June 1998
University of California, Santa Barbara
Dissertation: *Geometric Knot Theory*
Thesis Advisor: Kenneth C. Millett

M.A., Mathematics — 17 December 1994
University of California, Santa Barbara

S.B., Mathematics and Computer Science — 28 May 1993
Massachusetts Institute of Technology

Publications

(1) *Physical and Numerical Models in Knot Theory Including Applications to the Life Sciences.*
Jorge A. Calvo, Kenneth C. Millett, Eric J. Rawdon, and Andrzej Stasiak, editors.
Series on Knots and Everything, vol. 36, World Scientific, Singapore, 2005.
ISBN: 981-256-187-0.

(2) *Physical Knots: Knotting, Linking, and Folding Geometric Objects in* $\mathbb{R}^3$.
Jorge A. Calvo, Kenneth C. Millett and Eric J. Rawdon, editors.
Contemporary Mathematics, vol. 304, American Mathematical Society, Providence, 2002.
ISBN: 0-8218-3200-X.

(3) *Characterizing Polygons in* $\mathbb{R}^3$
in *Physical Knots* (Calvo, Millett, and Rawdon, editors), Contemporary Mathematics, vol. 304, American Mathematical Society, Providence, 2002, pp. 37 – 53.

(4) *Convexifying polygons with simple projections*
(with D. Krizanc, P. Morin, M. Soss, and G. Toussaint),
Information Processing Letters **80** (2001) no. 2, 81–86.

(5) *Teoría de nudos geométricos e isotopía poligonal,*
Revista de Matemática: Teoría y Aplicaciones **8** (2001) no. 2, 101–130.

(6) *Geometric knot spaces and polygonal isotopy,*
Journal of Knot Theory and its Ramifications **10** (2001) no. 2, 245–267.

(7) *The embedding space of hexagonal knots,*
Topology and its Applications **112** (2001) no. 2, 137–174.

(8) *Minimal edge piecewise linear knots* (with K. C. Millett),
in *Ideal Knots* (Stasiak, Katrich, and Kauffman, editors), Series on Knots and Everything, vol. 19, World Scientific, Singapore, 1999, pp. 107 – 128.

(9) *Knot enumeration through flypes and twisted splices,*
Journal of Knot Theory and its Ramifications **6** (1997) no. 6, 785–798.

Teaching Experience

Associate Professor of Mathematics Department of Mathematics Ave Maria University Naples, FL 34119	2006 – present
Adjunct Professor of Mathematics Department of Mathematics North Dakota State University Fargo, ND 58105	2004 – present
Assistant Professor of Mathematics Department of Mathematics Ave Maria University Naples, FL 34119	2004 – 2006
Graduate Program Director Department of Mathematics North Dakota State University Fargo, ND 58105	2003 – 2004
Assistant Professor of Mathematics Department of Mathematics North Dakota State University Fargo, ND 58105	1999 – 2004
Visiting Assistant Professor of Mathematics Department of Mathematics Williams College Williamstown, MA 01267	1998 – 1999
Graduate Teaching Assistant Department of Mathematics University of California, Santa Barbara, CA 93106	1994 – 1998

Conferences and Presentations

Invited speaker, MAA Invited Paper Session on Applications of Topology to Biology, Chemistry, and Physics, Joint Mathematics Meetings (Phoenix, AZ, January 2004).

Co-organizer, Special Session on Numerical Methods, Calculations, and Simulations in Knot Theory and its Applications, AMS Western Section Meeting (San Francisco, CA, May 2003).

Invited speaker, First Cuban Workshop on Algorithms and Data Structures (La Habana, Cuba, May 2001).

Co-organizer and speaker, Special Session on Physical Knotting and Unknotting, AMS Western Section Meeting (Las Vegas, NV, April 2001).

Invited speaker, Special Session on Knot Theory and its Applications, AMS Southeastern Section Meeting (Charlotte, NC, October 1999).

Invited speaker, Knots in Hellas 98, International Conference on Knot Theory and its Ramifications (Delphi, Greece, August 1998).

Awards and Honors

NDSU College of Science and Mathematics Award for Excellence in Teaching	2003
Mathematical Association of America Project NExT Fellow	1999
Sigma Xi (Scientific Research Society)	1999
UCSB Department of Mathematics Graduate Teaching Award	1998
National Science Foundation Graduate Fellow	1995 – 1998
A.T.&T. Foundation Doctoral Fellow	1995
UCSB Department of Mathematics Raymond L. Wilder Award	1994
UCSB Regents Special Fellow	1993 – 1998
Phi Beta Kappa (Chi of Massachusetts)	1993

Memberships

American Mathematical Society

Mathematical Association of America

Society for Advancement of Chicanos and Native Americans in Science

Service and Committees

AMU Admissions Committee	2006 – present
AMU Library Committee	2005 – 2006
AMU Information Technology Committee	2004 – 2006
AMU Biology Search Committee	2004 – 2005
NDSU University Senate	2003 – 2004
NDSU Ronald E. McNair Scholars Program Adviser	2003 – 2004
NDSU Mathematics Department Executive Committee	2003 – 2004
NDSU Graduate Council	2002 – 2004