Alberto M. Teguia

Curriculum vitae

CONTACT INFORMATION	Jesse H. Jones Graduate School of Business	at17@rice.edu
	Rice University	919 − 452 − 0962 (cell)
	Houston, T.X. 77006	919 − 660 − 2833 (office)

EDUCATION		
	RICE UNIVERSITY, Ph.D. Finance,	Expected May 2016

	DUKE UNIVERSITY, Ph.D. Mathematics,	May 2011

Dissertation Title: *Stochastic Gravitational Microlensing*
Adviser: Dr. Arlie O. Petters

	EAST TENNESSEE STATE UNIVERSITY, M.S.,	May 2005

Thesis Title: *Extensions of the Cayley-Hamilton Theorem with Applications to Elliptic Operators and Frames*
Adviser: Dr. Jeff Knisley

	UNIVERSITY OF BUEA, B.S., Mathematics,	Dec. 2003

RESEARCH INTERESTS	Asset Pricing, Emerging/Developing Markets, International Finance

PUBLICATIONS & PREPRINTS

with A. O. Petters and R. Rider, *A Mathematical Theory of Stochastic Microlensing II. Random Images, Shear, and the Kac-Rice Formula,*
 J. Math. Phys. **50**, 122501 (December, 2009).

with A. O. Petters and R. Rider, *A Mathematical Theory of Stochastic Microlensing I. Random Time-Delay Functions and Lensing Maps,*
 J. Math. Phys. **50**, 072503 (October, 2009).

with J. Gardner *et al.*, *Domination Cover Pebbling: Graph Families,*
 J. of Combinatorial Mathematics and Combinatorial Computing **64**, 255 (2008)

with A. Godbole, *Sierpinski Gasket Graphs and Some of their Properties,*
 Australasian Journal of Combinatorics **35**, 181 (June, 2006).

with A. O. Petters, *A Mathematical Theory of Stochastic Microlensing III. Densities for Radial, Spatial Distributions with General Random Mass Spectrum,*
 preprint (2010).

with A. O. Petters, *A Mathematical Theory of Stochastic Microlensing. IV. Global Expectations and Shear for Radial Distributions with a General Random Mass Spectrum,*
 preprint (2010).

AWARDS & HONORS

	Travel Award,	"Joint Mathematics Meetings"
	New Orleans, LA,	Jan. 2011,

	Travel Award,	"Negotiating the Ideal Faculty Position Workshop"
	ADVANCE, Rice University,	Sept. 2010

	Research Highlight,	Journal of Mathematical Physics, Fall 2009

| | Best Poster Presentation, Conf. of African American Researchers in Math. Sci. |
| | Georgia Institute of Technology |

Best Poster Presentation,   Conf. of African American Researchers in Math. Sci.
Georgia Institute of Technology   July 2008

Outstanding Graduate Student Award,   Department of Mathematics
East Tennessee State University   May 2005

Valedictorian,   Department of Mathematics
University of Buea   December 2003

TEACHING   Instructor, "Linear Algebra and Ordinary Differential Equations",   Summer 2010

Lab instructor, "Laboratory Calculus II",   Fall 2006

Guest Lecturer:
"Quantitative Finance", Fuqua School of Business,   Spring 1 2009
"Probability Theory", Dept. of Math.,   Spring 2008

TALKS &
POSTERS

What Does Marriage have to do with Gravitational Lensing?, presented at:
- Grad-Fac Seminar, Duke Univ.,   Jan. 2010

Geometry of the Random Time Delay Surface and the Expected Number of Lensed Images in Microlensing, presented at:
- Joint Math. Meeting, New Orleans,   Jan. 2011
- Rice University, Dept. of Math.,   Sept. 2010

Foundations of Stochastic Microlensing, presented at:
- Gravitational Lensing Workshop, Univ. of South Florida,   April 2010

On the Maximum Number of Images in Multiplane Lensing, presented at:
- Workshop on Dark Matter, Complex Methods, and Orbifolds in Gravitational Lensing, Petters Research Institute, Belize,   March, 2010

A Mathematical Theory of Stochastic Gravitational Lensing, presented at:
- Joint Math. Meeting, AMS Geometry and Topology, San Fran., CA, Jan. 2010
- Probability and its Lensing Applications, Petters Research Institute, Belize,   Dec. 2008
- Blackwell-Tapia Conference, SAMSI,   Nov. 2008
- CAARMS 14, Georgia Institute of Technology,   June 2008
- Seminar, Department of Mathematics, Howard University,   April 2008

The Mathematics of Gravitational Lensing, presented at:
- Grad-Fac Seminar, Duke Univ.,   April 2009

Random fields and Stochastic Microlensing, presented at:
- Random Fields and Stochastic Geometry, BIRS, Banff, Canada,   Feb. 2009

An Extension of the Cayley-Hamilton Theorem to a Class of Elliptic Operators, presented at:
- Blackwell-Tapia Conference, IMA,   Nov. 2006
- Joint Math. Meeting, Atlanta, GA,   Jan. 2005
- SIAM Student Seminar, Virginia Tech,   March 2005
- CAARMS 11, IPAM,   June 2005

A Sierpinski Graph and Some of its Properties, presented at:
- 36th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton,   Spring 2005

Domination Cover Pebbling, presented at:
- Seminar, ETSU,   Fall 2004

CONFERENCES & WORKSHOPS

Joint Mathematics Meetings, New Orleans,   Jan. 2011

Blackwell-Tapia Conference, Mathematical Biosciences Institute,   Nov. 2010

Workshop on Gravitational Lensing, Uni. of South Florida   April 2010

Workshop on Dark Matter, Complex Methods, and Orbifolds in Gravitational Lensing, Petters Research Institute, Dangriga, Belize   March 2010

Topological Complexity of Random Sets, American Institute of Mathematics, Aug. 2009

Random Fields and Stochastic Geometry, BIRS, Banff, Canada,   Feb. 2009

Workshop on Probability and its Lensing Applications, Petters Research Institute, Dangriga, Belize,   December 2008

23rd Annual Geometry Festival, Duke University,   April 2008

Gravitational Lensing in Kerr Spacetime Geometry, American Institute of Mathematics,   Jul. 2005

Workshop on Minorities and Applied Mathematics, Institute of Mathematics and its Applications,   April 2005

SERVICE

Reviewer, Journal of Methodology and Computing in Applied Probability

Chair, Session on Geometry and Topology IV, Joint Math Meeting,   Jan. 2010.

Vice-President, Bouchet Society, Duke University,   Fall 2009 -Spring 2009.

Graduate Mentor, Petters Research Group,   May 2005 - May 2008

Organizer, Geometry Forum, Duke University,   Fall 2006 - Spring 2007

Graduate Mentor, REU , ETSU,   Summer 2004

MEMBERSHIPS

AMS, SIAM

SOFTWARE

Gravlens, Mathematica, MatLab

LANGUAGES

Fluent in English and French