

CURRICULUM VITAE
OF
LOUIS TEBOU
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ADDRESS

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EDUCATION

Habilitation	University of Strasbourg (France)	Applied Mathematics	11/1999
Ph.D.	University of Metz (France)	Applied Mathematics	5/1995
M.S.	University of Metz (France)	Applied Mathematics	6/1992

WORK EXPERIENCE

Florida International University	Associate professor	8/2006-present
Florida International University	Assistant professor	8/2001-7/2006
York University (Toronto, Canada)	Course Director	9/2000-5/2001
Universidad Complutense de Madrid (Spain)	Postdoc fellow	5/1999-12/1999
University of Saint-Louis (Senegal)	Assistant professor	01/1998-12/1998
U. Strasbourg (France)	Visiting Researcher	9/1996-12/1997
U. Metz (France)	Teaching & Research Associate	9/1994-8/1996
U. Metz (France)	Teaching Assistant	9/1993-6/1994
U. Metz (France)	Teaching Assistant	9/1992-12/1992

PUBLICATIONS

Papers in Professional Journals (all of them are refereed articles)

1. Louis Tebou, *Uniform null controllability of the heat equation with rapidly oscillating periodic density*. C. R. Acad. Sci. Paris, Ser. I 347(2009), 779-784.
2. Louis Tebou, *Equivalence between observability and stabilization for a class of second order semilinear evolution equations*. DCDS Supplements 2009(2009), 744-752
3. *Well-posedness and stability of a hinged plate equation with a localized nonlinear structural damping*. Nonlinear Anal. TMA, 71(2009), 2288-2297.
4. Louis Tebou, *Stabilization of the elastodynamic equations with a degenerate locally distributed dissipation*. Systems and Control Letters 56 (2007) 538– 545.

5. Louis Tebou, *A Carleman estimates based method for the stabilization of some locally damped semilinear hyperbolic equations*. ESAIM: COCV 14 (2008) 561–574.
6. Louis Tebou, *Locally distributed desensitizing controls for the wave equation*. C. R. Acad. Sci. Paris, Ser. I 346(2008), 407-412.
7. Louis Tebou, *On the stabilization of dynamic elasticity equations with unbounded locally distributed dissipation*. Differential Integral Equations, 19(2006), 785-798.
8. Louis Tebou, *A direct method for the stabilization of some locally damped semilinear wave equations*. C. R. Acad. Sci. Paris, Ser. I , 342(2006), 859-864.
9. Louis Tebou & Enrique Zuazua, *Uniform boundary stabilization of the finite differences space discretization of the 1-d wave equation*. Advances in Computational Mathematics, 26(2007), 337-365..
10. J. Edward & Louis Tebou, *Internal null-controllability for a structurally damped beam equation*. Asymptotic Analysis, 47(2006), 55-83.
11. Louis Tebou, *Uniform null controllability of the 1-D finite differences space semi-discretization of the heat equation with locally distributed control*. Journal of Computational Analysis and Applications, 7(2005), 169-186.
12. Theodore Tachim & Louis Tebou, *Robust control problems in fluid flows*. Discrete and Continuous Dynamical Systems 12(2005), no 3, 437-463.
13. Theodore Tachim & Louis Tebou, *Adjoint-based iterative method for robust control problems in fluid mechanics*. SIAM Journal on Numerical Analysis 42(2004), no 1, 302-325.
14. Louis Tebou, *Energy decay estimates for the damped Euler-Bernoulli equation with an unbounded localizing coefficient*. Portugaliae Mathematica 61(2004), no 4, 375-392.
15. Louis Tebou & Enrique Zuazua, *Uniform exponential long time decay for the space finite differences semi-discretization of a locally damped wave equation via an artificial numerical viscosity*, Numerische Mathematik 95(2003), no 3, 563-598.
16. Louis Tebou, *Sur quelques inégalités d'observabilité de J.L. Lions liées à l'équation des ondes perturbée*, Afrika Matematika (3) 10(1999), 26-35.
17. Salah Bendib & Louis Tebou, *Homogenization of a class of nonlinear problems in perforated domains*, C. R. Acad. Sci. Paris, Série I 328(1999), 1145-1149.
18. Louis Tebou, *Stabilization of the wave equation with localized nonlinear damping*. Journal of Differential Equations, 145(1998), 502-524.
19. Louis Tebou, *Well-posedness and energy decay estimates for the damped wave equation with L^1 localizing coefficient*. Commun. in P.D.E., 23(1998), 1839-1855.
20. Louis Tebou, *Sur quelques résultats d'observabilité liés à l'équation des ondes perturbée*, C. R. Acad. Sci. Paris, Série I 327(1998), 277-281.
21. Louis Tebou, *On the decay estimates for the wave equation with a local degenerate or nondegenerate dissipation*, Portugaliae Mathematica 55(1998), 293-306.
22. Louis Tebou, *Estimations d'énergie pour l'équation des ondes avec un amortissement nonlinéaire localisé*, C. R. Acad. Sci. Paris, Série I 325(1997), 1175-1179.
23. Jeannine Saint Jean Paulin & Louis Tebou, *Contrôlabilité exacte interne dans des domaines perforés avec une condition aux limites de Fourier sur le bord des trous*, Asymptotic Analysis 14(1997), 193-221.
24. Louis Tebou, *Contrôle distribué de l'équation des ondes dans des domaines minces*, "RAIRO Modélisation Mathématique et Analyse Numérique", 31(1997), 871-890.

25. Louis Tebou, *On the Stabilization of the wave and linear elasticity equations in 2-D*, PanAmerican Mathematical Journal 6(1996), 41-55.
26. Louis Tebou, *Internal stabilization and exact controllability in thin cellular structures*, Ricerche di Matematica, Vol. XLV, (2)(1996), 457-490.
27. Louis Tebou, *Contrôlabilité exacte interne des vibrations d'un corps mince*, C. R. Acad. Sci. Paris, Série I, 322(1996), 745-748.
28. Louis Tebou, *Sur la stabilisation de l'équation des ondes en dimension 2*, C. R. Acad. Sci. Paris, Série I, 319(1994), 585-588.

WORKS SUBMITTED

1. Well-posedness and stabilization of an Euler-Bernoulli equation with a localized nonlinear dissipation involving the Δ -Laplacian.
2. Stabilization of some coupled hyperbolic/parabolic equations.

FUNDED RESEARCH

- 2002 FIU Provost's Office and FIU Foundation Summer research grant for proposal: *Numerical Control of vibrating structures*, \$9353.42
- 2008 College of Arts and Sciences Summer research award for proposal: *Stabilization of some plate models with locally distributed nonlinear viscoelastic damping*, \$5,000.

PRESENTATIONS AND LECTURES – Outside residing department

1. *Uniform null controllability of a parabolic equation with rapidly oscillating coefficients*. Invited talk, SIAM Conference, Miami, FL, December 7-10/2009.
2. *Desensitizing control for a semilinear wave equation*, invited talk, Conference in honor of Prof. Russell, Beijing, China, May 15-17/2009.
3. *Uniform null controllability of the heat equation with rapidly oscillating periodic density*. PDEs Seminar, University of Virginia, Charlottesville, March 17, 2009.
4. *The elasticity equations with degenerate Robin boundary conditions: energy dissipation through a locally distributed unbounded feedback control*, invited talk, Conference in honor of Prof. A.V. Balakrishnan, UCLA, Los Angeles, January 30-31, 2009.
5. *Well-posedness and stabilization of an Euler-Bernoulli equation with a localized nonlinear dissipation involving the Δ -Laplacian*, The 5th World Congress of Nonlinear Analysts, Orlando, July 2-9, 2008.
6. *Locally distributed desensitizing controls for the wave equation*, invited talk, AIMS Conference, University of Texas, Arlington, May 18-21, 2008.

7. *Stabilization of a semilinear hyperbolic equation with a locally distributed damping in the whole space*, invited talk, Third South Florida Analysis seminar Ft. Lauderdale, March 30-April 1, 2007.
8. *Approximate controllability of the heat equation in a domain with small holes*, invited talk, AMS Southeastern meeting, FIU, Miami, April 01, 2006.
9. *Stabilizability of a nonlinear coupled wave/heat equation*, 30 minutes invited talk, AMS Southeastern meeting, East Tennessee State University, Johnson City, October 15, 2005.
10. *Asymptotic behavior of a coupled nonlinear wave/heat equation*, 1 hour invited talk, Colloquium, Department of Mathematics, Virginia Tech, September 30, 2005.
11. *Semi-internal stabilization of semilinear elastodynamic systems*, 45 minutes invited talk, The Fourth World Congress of Nonlinear Analysts, Orlando, July 06 2004.
12. *A direct approach for the stabilization of some locally damped distributed systems*, 1 hour talk, Applied mathematics seminar, University of Strasbourg (France), November 1999.
13. *Stabilization of the wave equation with an unbounded localized damping*, 1 hour talk, Applied mathematics seminar, University of Besançon (France), December 1998.
14. *Stabilization of the wave equation with a nonlinear localized damping*, 1 hour talk, Applied mathematics seminar, University of Saint-Louis (Senegal), March 1998.
15. *A new method for the stabilization of the wave equation with localized damping*, 1 hour talk, Applied mathematics seminar, University of Strasbourg (France), May 1997.
16. *Stabilization of the wave equation with a degenerate locally distributed damping*, 1 hour talk, Applied mathematics seminar, University of Metz (France), January 1997.
17. *On the exact internal controllability in perforated domains*, 1 hour talk, Applied mathematics seminar, University of Metz (France), May 1995.
18. *On a Fourier-Dirichlet problem in exact internal controllability*, 20 minutes talk, 26th National Congress of Numerical Analysis, Les Karellis (France), May 1994.

PRESENTATIONS AND LECTURES – at FIU

1. *Uniform exponential decay of the energy of the space semi-discretization of a locally damped wave equation via an artificial numerical viscosity*, part 1, Analysis Seminar, September 2001.
2. *Uniform exponential decay of the energy of the space semi-discretization of a locally damped wave equation via an artificial numerical viscosity*, part 2, Analysis Seminar, October 2001.
3. *A Carleman estimate approach to the stabilization of a locally damped semilinear wave equation*, October 07, 2005.

4. *Asymptotic Stability of a thermoelastic system*, 25 minutes talk, FAU-FIU-UM mini-conference on Analysis, October 22, 2005.

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

1. Referee articles for the journals: Journal of Differential Equations, Journal of Mathematical Analysis and Applications, Revista Matemática Complutense, Portugaliae Mathematica, Journal of Optimization Theory and Applications, Nonlinear Analysis, Annales des sciences mathématiques du Québec, Electronic Journal of Differential Equations, Nonlinear Differential Equations and Applications, ESAIM COCV, Annales de l'Institut Henri Poincaré (C) Analyse Non Linéaire, Systems and Control Letters, Proceedings of the American Mathematical Society,
2. Reviewer for "Mathematical Reviews", a database for the mathematical sciences, by the American Mathematical Society.
3. Colloquium organizer and host. February 2004: Professor Enrique Zuazua, Universidad Autónoma de Madrid.
4. Colloquium organizer and host. April 2004: Professor Vilmos Komornik, University of Strasbourg.
5. Member of the departmental Hiring Committee, 2007-2008, and in 2005-2006, 2004-2005, 2002-2003.
6. Course coordinator: MAS 5145-Applied Linear Algebra, and MAP 5236-Mathematical Techniques of Operational Research.
7. Independent Study- Partial Differential Equations (MAP 5326)- 1 student in Fall 2002.
8. Independent Study-Numerical Analysis- 1 student in Summer 2005.
9. Colloquium organizer and host. February 2006: Professor David Russell, Virginia Tech.
10. Colloquium organizer and host. March 2006: Professor Vilmos Komornik, University of Strasbourg.
11. Professeur Invité, University of Strasbourg, July 2007.
12. Independent Study-Optimization (MAP 5236)- 1 student in Summer 2008.
13. Co-organizer of a technical session at the 5th World Congress of Nonlinear Analysts, Orlando, July 02-09, 2008.
14. Member of the departmental Curriculum and Scheduling Committee, 2008-2009.
15. Member of the CAS Curriculum Committee, Spring 2009.
16. Member of the departmental Accreditation Committee, 2009-2010.