

Curriculum Vitae

Alberto Bressan

Born on June 15, 1956 in Venice, Italy.

Married with Wen Shen.

Two daughters: Luisa Mei and Maria Lan.

PRESENT POSITION

Eberly Chair Professor of Mathematics, Penn State University, University Park, Pa. 16802, USA.

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EDUCATION

- Laurea in Matematica, University of Padova, Italy, 1978.

Thesis: Processi di controllo lineari. Proprietà della funzione tempo minimo.

Advisor: Roberto Conti

- Ph.D. in Mathematics, University of Colorado, Boulder, 1982.

Thesis: Two mathematical problems related to the theory of combustion.

Advisor: Jerrold Bebernes

APPOINTMENTS

Long term positions:

Feb. 1979–Jan. 1980	C.N.R. research fellowship	University of Florence
Jan. 1982–	Ricercatore	Università di Padova, Italy
Sept. 1983–July 1984	Research Associate	Mathematics Research Center Madison, Wisconsin
Sept. 1986–	Associate Professor	University of Colorado, Boulder
June 1991–	Professor	S.I.S.S.A., Trieste

Nov. 2003– Professor Penn State University

Short term and visiting positions:

April–May 1980	Visiting Scientist	M.I.T., Boston
Spring 1983	Instructor	S.I.S.S.A., Trieste
Summer 1983	Research Assistant	University of Colorado, Boulder
June 1987–88–89–90	Visiting Professor	S.I.S.S.A., Trieste
Sept.1997	Visiting Scholar	Mittag-Loeffler Institute, Stockholm
June 1998	Visiting Professor	City University, Hong Kong
Sept. 2000–May 2001	Visiting Scholar	N.T.N.U., Trondheim
Sept.–Oct. 2002	Visiting Professor	Chinese U. and City U., Hong Kong
Aug–Sept. 2008	Visiting Professor	Center for Advanced Studies, Oslo.

AWARDS

- “A. Feltrinelli” prize for Mathematics, Mechanics and Applications, *Accademia Nazionale dei Lincei*, Rome, 2006.
- “Analysis of Partial Differential Equations” prize, *Society for Industrial and Applied Mathematics*, Phoenix, 2007 (with Stefano Bianchini).
- “M. Bôcher” prize, *American Mathematical Society*, San Diego, 2008.

PH.D. STUDENTS SUPERVISED

Franco RAMPAZZO, S.I.S.S.A. 1989
Chang Eon SHIN, University of Colorado Boulder 1992
Benedetto PICCOLI, S.I.S.S.A. 1994
Graziano CRASTA, S.I.S.S.A. 1994
Rinaldo COLOMBO, S.I.S.S.A. 1995
Debora AMADORI, S.I.S.S.A. 1995
Paolo BAITI, S.I.S.S.A. 1997
Andrea MARSON, S.I.S.S.A. 1999
Graziano GUERRA, S.I.S.S.A. 2000
Marta LEWICKA, S.I.S.S.A. 2000
Paola GOATIN, S.I.S.S.A. 2000
Stefano BIANCHINI, S.I.S.S.A. 2000

Giuseppe COCLITE, S.I.S.S.A. 2003

Massimo FONTE, S.I.S.S.A. 2005

Fabio PRIULI, S.I.S.S.A. 2006

Yunho HONG, Penn State 2007

MEMBER OF THE EDITORIAL BOARD OF

- Advances in Differential Equations
- Analysis and Applications
- Archive for Rational Mechanics and Analysis
- Bollettino dell'Unione Matematica Italiana
- Communications in Mathematical Sciences
- Control, Optimization and Calculus of Variations
- Differential and Integral Equations
- Discrete and Continuous Dynamical Systems
- International Journal of Dynamical Systems and Differential Equations
- Kinetic and Related Models
- Journal of Dynamics and Differential Equations
- Journal of Differential Equations
- Networks and Heterogeneous Media
- Nonlinear Differential Equations and Applications
- Rendiconti del Seminario Matematico, Università di Padova
- Set Valued Analysis
- S.I.A.M. Journal of Mathematical Analysis

OTHER EDITORIAL WORK

- Editor in chief of the AIMS book series on Applied Mathematics
- Co-editor of the special volume of *J. Differential Equations* in honor of A. Cellina and J. Yorke.
- Co-editor of the Proceedings of the Conference: "Geometric Control and Nonsmooth Analysis" (June 2006), World Scientific.

SELECTED PLENARY LECTURES

- VI International Conference on Hyperbolic Problems, Hong Kong, June 1996.

- International Conference in memory of S. N. Kruzhkov, Besancon, June 1999.
- XVI Congress of the Unione Matematica Italiana, Naples, September 1999.
- Conference in honor of C. Dafermos, Providence, April 2001.
- Nonlinear Evolutionary P.D.E., Yellow Mountain, China, June 2001.
- Progress in P.D.E., Edinburgh, July 2001.
- IX International Conference on Hyperbolic Problems, Pasadena, March 2002.
- SIAM 50-th Anniversary Meeting, Philadelphia, July 2002 (topical lecture).
- International Congress of Mathematicians, Beijing, August 2002.
- International Conference on Nonlinear P.D.E. - Theory and Applications, Hong Kong, Sept. 2002.
- Nonlinear Evolution Problems, Roma, January 2003.
- Joint Conference of the Austrian Mathematical Society and the Unione Matematica Italiana, Bolzano, Sept. 2003.
- Workshop on non-linear PDE's, Princeton, March 2004.
- International Conference on Mathematics and its Applications, Hong Kong, May 2004.
- Conference on Analysis, Modeling and Computation of PDE and Multiphase Flow, Stony Brook, Aug. 2004.
- Australian Mathematical Society Annual Conference, Melbourne, Sept. 2004.
- S.I.A.M. Meeting on Mathematical Aspects of Nonlinear PDE's, Houston, Dec. 2004.
- AMS-IMS-SIAM Summer Research Conference in the Mathematical Sciences on "Control Methods in PDE-Dynamical Systems", July 2005.
- A.M.S. 1010-th Sectional Meeting, Johnson City, Oct. 2005.
- Conference on General Relativity and Shock Wave Theory, Stanford, April 2006.
- Conference on Geometric Control and Nonsmooth Analysis, Rome, June 2006.

- A.I.M.S. 6-th International Conference on Dynamical Systems, Differential Equations and Applications, Poitiers, June 2006.
- “Control of Physical Systems and Partial Differential Equations”, Institut Henri Poincaré, Paris, June 2008.
- “50 Years of Optimal Control”, Banach Center, Bedlewo, Poland, September 2008.
- Conference on “Nonsmooth Analysis, Control Theory and Differential Equations”, Rome, June 2009.
- SIAM Meeting, Denver, July 2009 (topical lecture).

SELECTED LECTURES AT ACADEMIC INSTITUTIONS

- Current Developments in Mathematics Conference, Harvard University, 2002.
- DiPerna Lecture, University of California, Berkeley, 2006.

SUMMER COURSES

- Introduction to hyperbolic conservation laws, Ravello, Italy, Sept. 1998.
- Hyperbolic systems of conservation laws, Anogia, Crete, July 2000.
- Viscosity solutions for systems of conservation laws, Newton Institute, Cambridge, UK, April 2003.
- BV solutions to hyperbolic systems via vanishing viscosity, C.I.M.E. course in Cetraro, Italy, July 2003.
- Introduction to hyperbolic conservation laws in one space dimension, C.I.M.E. course, Cetraro, Italy, June 2009.
- A tutorial on hyperbolic conservation laws, I.M.A., Minneapolis, July 2009.

(Last updated: July 2009)