CURRICULUM VITAE EUGEN MIHAILESCU

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Current Position: Principal Researcher II, Institute of Mathematics Simion Stoilow of the Romanian Academy.

Education:
PH. D in mathematics, University of Michigan, USA 1995-1999.
Diploma in mathematics (Merit, 9.90 out of 10), University of Bucharest, Romania 1990-1995.

PH.D Thesis:
Periodicity and Hyperbolicity for Higher Dimensional Complex Dynamical Systems.
Thesis Adviser: Prof. John - Erik Fornaess, Univ. of Michigan.

Fields of interest:
Dynamical systems with hyperbolic behaviour, thermodynamical formalism, complex dynamics in several variables, complex analysis.

Academic employment/experience:
Principal Researcher II, Inst. of Mathematics of the Romanian Academy, since Febr. 2006.
Visiting Professor, Department of Mathematics, Texas A & M University, 1999-2001.
Visiting Professor, Department of Mathematics, University of North Texas, 2002.
Principal Researcher III, Inst. of Mathematics of the Romanian Academy, 1999-2006.
Graduate Teaching Assistant and Graduate Researcher, Univ. of Michigan, USA, 1995-1999.

Other research visits:
Erwin Schrodinger Institute, Vienna, Austria, June 2008.
Instituto Nacional de Matematica Pura e Aplicada (IMPA), Rio de Janeiro, Febr. 2008
Univ. of North Texas, Denton, Febr.- March 2007.
Gottingen University, Dec. 2006.

Univ. Paris 6, Oct. 2006.

University of North Texas, Oct. 2005.

Humboldt Univ. Berlin, March - May 2005.

Univ. of North Texas, Sept.-Oct. 2004.

IMPAN - Banach Center, Warsaw, Apr. 2004.

Univ. Pisa - Centro de Giorgi, Apr. 2002 and Nov. 2004.

Awards/Grants/Fellowships :

"Simion Stoilow" Prize of the Romanian Academy, Dec. 2007 (for articles published in 2005).

Member of the research team of grant CEEX 2006-2008, "Analiza complexa si domenii conexe", from the Romanian Ministry of Education and Research. Member also in other research grants in analysis, in the IMAR team.

CNCSIS Grant from the Romanian Ministry of Education and Research, "Complex dynamics and metric properties of fractals", Project director, 2004-2005.

Participant in a Humboldt Foundation Grant, within the Pact for Stability in South - East Europe, Febr-May, Humboldt Univ., Berlin, 2005.

Co-organizer and participant in the Exchange Program between the Romanian and Polish Academies, "Holomorphic Dynamics and Ergodic Theory", 2004-2005.

Rackham Fellowship, Univ. of Michigan, 1999.

National Merit Fellowships, Univ. of Bucharest, 1990-1995.

Publications:

[**1**] Transversal families of hyperbolic skew products, joint with M. Urbanski, Discrete and Continuous Dynamical Systems, vol. 21, no. 3, 907-928, 2008.

[**2**] Metric properties and dynamics for conformal maps, preprint for the Proceedings of the 6-th Congress of Romanian Mathematicians, 2007.

[**3**] Inverse pressure estimates and the independence of stable dimension for non-invertible maps, joint with M. Urbanski, Canadian J. Math., vol. 60, no.3, 658-684, 2008.

[**4**] Unstable manifolds and Hölder structures associated to non-invertible maps, Discrete and Cont. Dyn. Syst.vol. 14, no 3, 419-446, 2006.

[**5**] Metric properties of some fractal sets associated to Axiom A maps in higher dimension, preprint 2007.

[**6**] Estimates for the stable dimension for holomorphic maps, joint with M. Urbanski, Houston J. Math., vol. 31, no.2, 2005, 367-389.

[**7**] Inverse topological pressure and applications to holomorphic dynamics in several variables, joint with M. Urbanski, Commun. Contemp. Math., vol.6, no.4, 653-681, 2004.

[**8**] Holomorphic maps for which the unstable manifolds depend on prehistories, joint with M. Urbanski, Discrete and Cont. Dyn. Syst., **9**(2003), 443-451.

[**9**] The set K^- for hyperbolic non-invertible maps, Ergodic Theory and Dynamical Systems, 2002, 22, 873-887.

[**10**] Applications of thermodynamic formalism in complex dynamics on $\mathbb{P}^2$, Discrete and Cont. Dynamical Systems, vol.7, no 4, October 2001, 821-836.

[**11**] Periodic points for actions of tori in Stein manifolds, Mathematische Annalen 314, 1999, no 1, 39-52.

[**12**] PH.D Thesis, Periodicity and hyperbolicity for higher dimensional complex dynamical systems, University of Michigan Press, 1999.

[**13**] A class of functions which are continuous but nowhere monotonous, Annals of the Univ. of Bucharest, vol. 42-43, 1994.

[**14**] On some topologies on the space of analytic coherent subsheaves, Revista Matematica TUNTCD, 1995.

Invited talks:

IMPA Dynamical Systems and Ergodic Theory Seminar, Febr. 2008.

6-th International Congress of Romanian Mathematicians, Bucharest, July 2007.

Dynamical Systems Seminar, Univ. of North Texas, Denton, March 2007.

Conformal Structures Workshop, Inst. fuer Mathematische Stochastik, Univ. Gottingen, Germany, Dec. 2006.

Dynamical Systems and Harmonic Analysis Seminar, Univ. Paris 11, Orsay, France, Oct. 2006.

Analysis and Dynamics Seminar, University of North Texas, USA, October 2005.

X-th Finnish-Romanian Seminar and the International Conference on Complex Analysis and Related Fields, Cluj, Romania, August 2005.

Holomorphic Dynamics Seminar, Centro de Giorgi, Univ. Pisa, Italy, Nov. 2004.

Millican Colloquium Series, University of North Texas, October 2004.

Dynamical Systems Seminar, Univ. of Warsaw, Poland, May 2004.

Complex Analysis and Dynamics Seminar, IMPAN-Banach Center, Warsaw, April 2004.

International Conference on Dynamical Systems, Denton, USA, May 2003.

Dynamics Seminar, University of North Texas, October 2000.

Holomorphic Dynamics in Several Variables Workshop, Scuola Normale Superiore, Pisa, Italy, April 1999.

Complex Analysis Seminar, Texas A& M Univ., April 1999 and March 2000.

Some other talks:

Complex Dynamics Trimester, Inst. Henri Poincare, Paris, France, September 2003

5-th Congress of Romanian Mathematicians, Pitesti, June 2003

First Joint American Mathematical Society - Real Sociedad Matematica Espanola Meeting, Sevilla, Spania, June 2003

Dynamical Systems Trimester, Centro de Giorgi, Scuola Normale Superiore, Pisa, Italy, April 2002

PRODYN Conference on Non-Hyperbolic Dynamical Systems, Georg-August-Universitat Gottingen, Germany, June 2001

Higher Dimensional Complex Dynamics at Centre International de Rencontres Mathematiques, Luminy, France, June 2001

Southwest Regional Conference in Dynamical Systems, University of Southern California, Los Angeles, November 2000

International Conference on Dynamical Systems, IMPA, Rio de Janeiro, Brazil, July 2000

AMS-MAA Joint Meeting, Washington DC, January 2000

Midwest Several Complex Variables Conference, Ann Arbor, MI, December 1999

Midwest Several Complex Variables Conference, Bloomington, USA, Feb. 1999.

AMS - MAA Joint Meeting, San Antonio, TX, January 1999

Wabash Modern Analysis Conference, Indianapolis, Oct. 1998.

Univ. of Michigan Dynamical Systems Seminar, Nov. 1998

Teaching:

In the Fall semester 2007, I taught a graduate course on Topology and Dynamics of Hyperbolic Maps, at SNSB (Scoala Normala Superioara Bucuresti) for some selected best students of Romanian universities. In 2006 I taught

two graduate courses at SNSB: Introduction to Dynamical Systems (Spring 2006), and Ergodic Theory with Applications to Dynamics (Fall 2006). At SNSB (2006-2007) I supervised also the Master thesis of Raluca Tanase, and advised other students as well.

My teaching experience consists also of many diverse courses I taught in the mathematics departments of University of Michigan, University of North Texas, Texas A & M University, Universitatea Politehnica Bucuresti, University of South Carolina, etc.