

Curriculum Vitae

Ovidiu Savin

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Personal Information.

Born: January 1st, 1977
Citizenship: Romanian

Education.

Ph.D. Mathematics, University of Texas at Austin, 2003
M.S. Mathematics, University of Pittsburgh, 1999

Positions Held.

Associate Professor, Columbia University, 2006–
Miller Postdoctoral Fellow, UC Berkeley, 2003-2006
Graduate student, UT Austin, 1999-2003

Awards and Honors.

NSF grant, 2007–
Sloan Fellowship, 2007–2009
Invited speaker at the International Congress of Mathematics, Madrid, 2006
Liftoff Fellow, Clay Mathematics Institute, 2003
Frank Gerth III Dissertation Award, UT Austin, 2003
Gordon Whaley Graduate Fellowship, 2001
Professor Hubert S. Wall Memorial Fellowship, 1999
Putnam Fellow, 1997
Gold Medal, International Mathematical Olympiad, Toronto, Canada, 1995

Publications.

1. Rabier P., Savin O., Fixed points of multi-valued maps and static Coulomb friction problems, *J. Elasticity* 58 (2000), no. 2, 155-176.
2. Savin O., A free boundary problem with optimal transportation, *Comm. Pure Appl. Math.* 57 (2004) no. 1, 126-140.
3. Savin O., Phase transitions: Regularity of flat level sets, PhD. Thesis, UT Austin 2003 (to appear in *Annals of Mathematics*).
4. Savin O., The obstacle problem for Monge Ampere equation, *Calc. Var. Partial Differential Equations* 22 (2005), no. 3, 303-320.
5. Savin O., C^1 regularity for infinity harmonic functions in two dimensions, *Arch. Ration. Mech. Anal.* 176 (2005), no. 3, 351-361.

6. Evans L.C., Gangbo W., Savin O., Diffeomorphisms and nonlinear heat flows, SIAM J. Math. Anal. 37 (2005), no. 3, 737–751.
7. Savin O., Small perturbation solutions for elliptic equations, Comm. Partial Differential Equations, 32, 557–578, 2007.
8. Valdinoci E., Sciunzi B., Savin O., Flat level set regularity of p-Laplace phase transitions, Mem. Amer. Math. Soc. 182 (2006), no. 858.
9. Savin O., Symmetry of entire solutions for a class of semilinear elliptic equations, Proceedings of the ICM, Madrid 2006.
10. Evans L. C., Savin O., $C^{1,\alpha}$ regularity for infinity harmonic functions in two dimensions. (To appear in Calc. of Variations and PDEs)
11. De Silva D., Savin O., Symmetry of global solutions to a class of fully nonlinear elliptic equations in 2D. (To appear in Indiana Univ. Math. Journal)
12. Daskalopoulos P., Savin O., On Monge-Ampère equations with homogenous right hand side. (To appear in Communications in Pure and Applied Math.)
13. Savin O., Entire solutions to a class of fully nonlinear elliptic equations . (To appear in Annali Scuola Normale Sup. Pisa)
14. Savin O., Wang C., Yu Y., Asymptotic behavior of infinity harmonic functions near an isolated singularity, Int Math Res Notices (2008) Vol. 2008
15. De Silva D., Savin O., Minimizers of convex functionals arising in random surfaces, submitted
16. Savin O., Valdinoci E., Elliptic PDEs with fibered nonlinearities, submitted
17. Caffarelli L., Roquejoffre J-M., Savin O., Non-local minimal surfaces – to be submitted
18. Daskalopoulos P., Savin O., Interior $C^{1,\alpha}$ estimates for parabolic Monge-Ampère equations. (In preparation)
19. Savin O., Varvaruca E., A priori estimates for waves with vorticity and the existence of extreme waves.(In preparation)

Invited Speaker in the Analysis/PDEs seminar at the following Institutions

- University of Rome, “Tor Vergata” (Colloquium Speaker)
- Cornell
- Johns Hopkins
- Columbia University
- UT Austin
- University of Pennsylvania
- Rutgers University
- Princeton University
- University of Minnesota
- Mathematical Science Research Institute
- Courant Institute
- UC Berkeley
- UC San Diego

- UC Santa Cruz

Participant and Contributed Speaker at the following Conferences

- Workshop on “Optimal Transport Theory and Applications”, Pisa, Italy, October 2003
- Conference on “The p-Laplace equation, the infinity-Laplace equation and related topics”, Linköping, Sweden, October 2004
- Workshop on “Reaction-diffusion and Free Boundary Problems”, Banff International Research Station, March 2006
- Invited speaker at the International Congress of Mathematicians, Madrid, 2006
- Rivière-Fabes Symposium, University of Minnesota, April 2007
- Invited Address at the AMS meeting, Courant Institute of New York University, March 2008
- Workshop on “Aspects of Optimal Transport in Geometry and Calculus of Variations”, Institute for Pure and Applied Mathematics (IPAM) at UCLA, April 2008
- AMS 2008 Fall Eastern Section Meeting, Wesleyan University, Middletown, CT, October 2008, expected
- Meeting in honor of Luis Caffarelli on the occasion of his 60th birthday, Milan, Italy, February 2009, expected
- Conference on Geometric PDEs, Institute for Advanced Study, Princeton, February 2009, expected
- Meeting on Symmetry for elliptic PDEs: 30 years after a conjecture of De Giorgi and related problems, Istituto Nazionale di Alta Matematica, Rome, Italy, May 2009, expected
- Workshops on Nonlinear PDEs, Warwick Mathematics Institute, Warwick, England, June 2009, expected
- Conference in honor of Antonio Cordoba on the occasion of his 60th birthday, Madrid Spain, June 2009, expected
- Workshop on Complex Monge-Ampere Equation, Banff International Research Station, October 2009, expected