15/14/38
Liberal Arts and Sciences
Mathematics Department
Patricio Aviles Papers, 1980-1995

Box 1:

Articles
- "Boundary Behavior of Harmonic Maps on Non-Smooth Domains and Complete Negatively Curved Manifolds" (with H. Choi and M. Micallef), c. 1980s
- "The $C^{1,a}$ Boundary Regularity of the P-Laplacian System" (with J. Manfredi), c. 1990s
- "Conformal Deformations of Complete Manifolds with Negatie Curvature" (with R. McOwen), undated
- "Duality Formulas and Variational Integrals" (with Y. Giga and N. Komuro), 1992
- "Long Time Existence and Removable Singularities for the Evolution of Harmonic Maps of Surfaces" (with M. Micallef and H. Naito), c. 1990s
- "Minimal Currents, Geodesics and Relaxation of Variational Integrals on Mappings of Bounded Variation" (with Y. Giga), c. 1990s
- "Numerical Problems Related to the Mathematical Theory of Liquid Crystal Configurations and Harmonic Maps," c. 1980s
- "On the Regularity of Harmonic Maps," 1990
- "On the Sobolev Quotient of an Einstein Manifold" (with J. Escobar), c. 1990s
- "On the Yamabe Problem"
- "Partial Regularity and Compactness of Solutions of Semilinear Elliptic Equations. Applications to Conformal Geometry" (with A. Folguera), c. 1990s
- "Partial Regularity of Least Gradient Mappings" (with Y. Giga), c. 1990s
- "The Reularity and Compactnessfor Harmonic Maps into Manifolds and Liquid Crystals," c. 1990s
- Report on the Paper of P. Aviles "Local Behavior of Solutions of some Eliptic Equations," c. 1980s
- "The Regulatory Theory for Harmonic Maps into Varieties," c. 1990s
- "The Regulatory Theory for Minimizer Harmonic Maps into Admissible Singular Targets," c. 1990s
- "Singularities and Rank One Properties of Hessian Measures" (with Y. Giga), 1988
- "A Study of Phragmén-Lindelöf Type of Theorems for Certain Classes of Nonlinear Partial Differential Equations" (with J. Serrin), c. 1980s
- "A Study of Singularities and Phragmén-Lindelöf Theorems for Certain Classes of Nonlinear Elliptic Second Order Partial Differential Equations," 1981
- "Una Teoria de Regularidad en la Frontera Para Aplicaciones Armonicas Definidas Sobre Dominios Lipschitz," undated
- "Variational Integrals on Mappings of Bounded Variation" (with Y. Giga), c. 1990s

Biography, 1994
Colombia, 1988-1990
Committies, 1988-1991
Correspondence, 1985-1991

Correspondence, 1988-1995
Departmental Memos, 1991-1994
Grant Proposals
- "Algebraic Differential Equations and Exponential Polynomials," 1991[RESTRICTED]
- "Combinatorial Properties of Polytopes," 1988 [RESTRICTED]
- "Computing Equipment for Research in Mathematics," Professor C.W. Henson (with Aviles, Craggs, Newton, Robinson and West), 1988 [RESTRICTED]
- "Differential Geometry and Partial Differential Equaitons Proposal to the Center for Advanced Studies"
- "Mathematical Sciences: Existence and Regularity for Solutions of Elliptic Equations and Systems," 1994
- "National Science Foundation Comments on Previous Research of P. Aviles," 1989
- "N.S.F. Progress Report"
- "Numerical Calculations in Nonlinear Partial Differential Equations," 1989 [RESTRICTED]
- "Problems Related to Differential Geometry and Mathematical Physics," c. 1980s [RESTRICTED]
- "Proposal for Apple Computer Equipment"
- "Proposal to the Center for Advanced Studies: Differential Geometry and Partial Differential Equations," c. 1980s
- "Proposals to the National Science Foundation," 1988 [RESTRICTED]
- "Research In Problems of Differential Geometry and Mathematical Physics," undated [RESTRICTED]
- "Research Plans in Japan (with Y. Giga)," c. 1980s
- "Review of 1988 SCREMS Proposal from UIUC Math Department," 1989
- "Scientific Computing Research Equipment for the Mathematical Sciences (SCREMS) National Science Foundation Proposal (with Henson, West, Newton, Craggs, and Robinson)," c. 1980s
- "Singularities in Nonlinear Partial Differential Equations," 1988

Mathematical Research Institute of Oberwolfach, 1992
Referred Articles
Syllabi, 1990-1993
Thesis–"A Study of Singularities and Phragmén-Lindelöf Theorems for Certain Classes of Nonlinear Elliptic Second Order Partial Differential Equations," 1981
Transparencies, undated