

CURRICULUM PROFESORADO ESCUELA TÉCNICA SUPERIOR DE ARQUITECTURA Y EDIFICACIÓN

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|---|--|------------|--------------|
| Profesor | Pedro J. Martínez Aparicio | | |
| Departamento | Matemática Aplicada y Estadística | | |
| Área de conocimiento | Matemática Aplicada | | |
| Ubicación del despacho | 2.07, Edificio de la E.U.I.T.Civil-E.T.S.I.Naval y Oceánica 2ª Planta | | |
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| URL / WEB | http://www.dmae.upct.es/~pjma/ | | |
| Horario de atención / Tutorías | Consultar Aula Virtual | | |
| Ubicación durante las tutorías | 2.07, Edificio de la E.U.I.T.Civil-E.T.S.I.Naval y Oceánica 2ª Planta | | |
| Titulación | Doctor en Matemáticas | | |
| Vinculación con la UPCT | Profesor Contratado Doctor | | |
| Año de ingreso en la UPCT | 2011 | | |
| Nº de quinquenios (si procede) | 1 | | |
| Líneas de investigación (si procede) | Ecuaciones en derivadas parciales elípticas y parabólicas Homogeneización de ecuaciones elípticas Análisis no lineal Bifurcación de ecuaciones diferenciales Cálculo Variacional | | |
| Nº de sexenios (si procede) | 1 | | |
| Experiencia profesional (si procede) | Desde 2004 experiencia investigadora | | |
| Experiencia Docente | Desde 2005 | | |
| Publicaciones de interés | <p>Giachetti, Daniela; Martínez-Aparicio, Pedro J; Murat, François. A semilinear elliptic equation with a mild singularity at $\\$u=0\\$: existence and homogenization. J. Math. Pures et Appl., to appear.</p> <p>Giachetti, Daniela; Martínez-Aparicio, Pedro J; Murat, François. Advances in the study of singular semilinear elliptic problems, to appear in the volumen Trends in differential equations and applications SEMA-SIMAI Springer Series 8, (2016).</p> | | |

Carmona, José; Martínez-Aparicio, Pedro J. A Singular Semilinear Elliptic Equation with a Variable Exponent. *Adv. Nonlinear Stud.* To appear

Arcoya, David; Carmona, José; Martínez-Aparicio, Pedro J. Comparison principle for elliptic equations in divergence with singular lower order terms having natural growth. *Communications in Contemporary Mathematics*, to appear.

Carmona, José; Martínez-Aparicio, Pedro J.; Suárez, Antonio A sub-supersolution method for nonlinear elliptic singular systems with natural growth and some applications. *Nonlinear Anal.* 132 (2016), 47–65.

Carmona, José; Martínez-Aparicio, Pedro J.; Rossi, Julio D. A singular elliptic equation with natural growth in the gradient and a variable exponent. *NoDEA Nonlinear Differential Equations Appl.* 22 (2015), no. 6, 1935–1948.

Martínez-Aparicio, Pedro J.; Pérez-Llanos, Mayte; Rossi, Julio D. The sublinear problem for the 1-homogeneous p -Laplacian. *Proc. Amer. Math. Soc.* 142 (2014), no. 8, 2641–2648.

Arcoya, David; Carmona, José; Martínez-Aparicio, Pedro J. Gelfand type quasilinear elliptic problems with quadratic gradient terms. *Ann. Inst. H. Poincaré Anal. Non Linéaire* 31 (2014), no. 2, 249–265.

Martínez-Aparicio, Pedro J.; Pérez-Llanos, Mayte; Rossi, Julio D. The limit as $p \rightarrow \infty$ for the eigenvalue problem of the 1-homogeneous p -Laplacian. *Rev. Mat. Complut.* 27 (2014), no. 1, 241–258.

Carmona, José; Cingolani, Silvia; Martínez-Aparicio, Pedro J.; Vannella, Giuseppina Regularity and Morse index of the solutions to critical quasilinear elliptic systems. *Comm. Partial Differential Equations* 38 (2013), no. 10, 1675–1711.

Arcoya, David; Carmona, José; Martínez-Aparicio, Pedro J. Radial solutions for a Gelfand type quasilinear elliptic problem with quadratic gradient terms. *Recent trends in nonlinear partial differential equations. II.*

Stationary problems, 21–30, *Contemp. Math.*, 595, Amer. Math. Soc., Providence, RI, 2013.

Carmona, José; Martínez-Aparicio, Pedro J.; Suárez, Antonio Existence and non-existence of positive solutions for nonlinear elliptic singular equations with natural growth. *Nonlinear Anal.* 89 (2013), 157–169.

Leonori, Tommaso; Martínez-Aparicio, Pedro J.; Primo, Ana Nonlinear elliptic equations with Hardy potential and lower order term with natural growth. *Nonlinear Anal.* 74 (2011), no. 11, 3556–3569.

Arcoya, David; Carmona, José; Martínez-Aparicio, Pedro J. Bifurcation for quasilinear elliptic singular BVP. *Comm. Partial Differential Equations* 36 (2011), no. 4, 670–692.

MR2734981 Reviewed Martínez-Aparicio, Pedro J.; Petitta, Francesco Parabolic equations with nonlinear singularities. *Nonlinear Anal.* 74 (2011), no. 1, 114–
Martínez-Aparicio, Pedro J. Singular Dirichlet problems with quadratic gradient. *Boll. Unione Mat. Ital. (9)* 2 (2009), no. 3, 559–574.

Arcoya, David; Carmona, José; Leonori, Tommaso; Martínez-Aparicio, Pedro J.; Orsina, Luigi; Petitta, Francesco Existence and nonexistence of solutions for singular quadratic quasilinear equations. *J. Differential Equations* 246 (2009), no. 10, 4006–4042.

Arcoya, David; Barile, Sara; Martínez-Aparicio, Pedro J. Singular quasilinear equations with quadratic growth in the gradient without sign condition. *J. Math. Anal. Appl.* 350 (2009), no. 1, 401–408.

Arcoya, David; Martínez-Aparicio, Pedro J. Quasilinear equations with natural growth. *Rev. Mat. Iberoam.* 24 (2008), no. 2, 597–616.

Arcoya, David; Carmona, José; Martínez-Aparicio, Pedro J. Elliptic obstacle problems with natural growth on the gradient and singular nonlinear terms. *Adv. Nonlinear Stud.* 7 (2007), no. 2, 299–317.

Otros temas de interés

Premio Extraordinario de Doctorado
Acreditado a Profesor Titular de Universidad desde
2014

Varios Preprints sometidos a publicación.