

List of publications

Andres Zuniga

Publications and Preprints

5. *A nonlocal isoperimetric problem with density perimeter*, with Stan Alama, Lia Bronsard and Ishan Topaloglu. **Preprint** arXiv:2006.16278 [math.AP]
4. *Prescribed energy connecting orbits for gradient systems*, with Francesca Alessio and Piero Montecchiari. **Discrete Cont. Dyn. Syst. Series A**, vol. 39, no. 8, pp. 4895–4928, 2019.
3. *Continuity of minimizers to weighted least gradient problems*. **Nonlinear Analysis**, vol. 178, pp. 86–109, 2019.
2. *On the heteroclinic connection problem for multi-well gradient systems*, with Peter Sternberg, **J. Differential Equations**, vol. 261, no. 7, pp. 3987–4007, 2016.
1. *A two-end family of solutions for the inhomogeneous Allen-Cahn equation in \mathbb{R}^2* , with Oscar Agudelo. **J. Differential Equations**, vol. 256, no. 1, pp. 157–205, 2014.

Collaborations in Progress

- *Symmetry for a weighted logarithmic Hardy inequality: carré du champ method*, with Jean Dolbeault
- *Symmetry breaking in interpolation inequalities: the porous medium case*, with Jean Dolbeault and Matteo Muratori.
- *Weighted porous medium diffusion equation: Sharp asymptotic rates of convergence by entropy methods*, with Jean Dolbeault and Matteo Muratori.
- *Bifurcation analysis characterization of the symmetry breaking in the Caffarelli-Kohn-Nirenberg inequalities*, with Josephine Evans.
- *On the stability of radial solutions of an anisotropic Ginzburg-Landau equation arising from the study of umbilical defects in nematic liquid crystals*, with Xavier Lamy.