

Craig Evans

UC BERKELEY

Research Area: Mathematical Analysis



The UCLA origins of viscosity solutions

Tuesday, May 9th, 2022 2:00 pm at MS 6627

I will present a motivated introduction to the notion of viscosity solutions, a huge breakthrough in nonlinear PDE theory. The history and prehistory here is strongly tied to the UCLA Mathematics Department.

Passing to limits, lots of examples

Wednesday, May 10th, 2022 2:00 pm at MS 6627

This talk will be an overview of the many applications of viscosity solutions, focussing upon some highlights, both past and recent.

Recent developments: successes and failures

Thursday, May 11th, 2022 2:00 pm at MS 6627

I will conclude my overview by explaining new perspectives, new research opportunities and some really important (but really intractable) open questions.