

# Preface

The purpose of these pages is to collect a set of notes that are a result of several talks and minicourses delivered here and there in the world (Milan, Cortona, Pisa, Roma, Santiago del Chile, Madrid, Bologna, Porquerolles, and Catania to name a few). We will present here some mathematical models related to nonlocal equations, providing some introductory material and examples.

Of course, these notes and the results presented do not aim to be comprehensive and cannot take into account all the material that would deserve to be included. Even a thorough introduction to nonlocal (or even just fractional) equations goes way beyond the purpose of this book.

Using a metaphor with fine arts, we could say that the picture that we painted here is not even impressionistic, it is just naïf. Nevertheless, we hope that these pages may be of some help to the young researchers of all ages who are willing to have a look at the exciting nonlocal scenario (and who are willing to tolerate the partial and incomplete point of view offered by this modest observation point).

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