# ON SOME NONLOCAL CRITICAL EQUATIONS

**Raffaella Servadei**

(Universita' degli Studi di Urbino Carlo Bo)

*E-mail:* `raffaella.servadei@uniurb.it`

Aim of this talk will be to discuss some existence and multiplicity results for critical nonlocal fractional problems got via variational and topological methods. In particular we will present recent contributions got in the joint paper [1].

Fractional and nonlocal operators appear in various models coming from many different fields. This is one of the reason why, recently, nonlocal fractional problems attracted the interest of the entire scientific community and not just the mathematical one.

## REFERENCES

[1] G. Molica Bisci, K. Perera, R. Servadei and C. Sportelli. Nonlocal critical growth elliptic problems with jumping nonlinearities. *J. Math. Pures Appl.*, 183: 170–197, 2024.