



Research Unit:

RiverLy

Laboratory:

EcoFlows

Coordinates:

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CURRICULUM VITAE

January 2020

NAME: **Hervé CAPRA**
BIRTH DATE: 1966, August 20th
NATIONALITY: French
CIVIL STATUS: Married, two children

POSITION: Senior Research Scientist

EDUCATION:
1995: PhD in Freshwater Ecology, University Lyon I, France.
1996: Post-Doctorate at INRS-Eau, Québec, Canada (Pr. M. Leclerc).
2014: Habilitation to lead research

LANGUAGES: French, English



MAIN INTEREST

Since 1996, I am fish ecology researcher of Cemagref, Irstea and now INRAE in Lyon. I had a biological / ecological university training (with special emphasis on river ecosystems) at University of Lyon. My main topics are stream physical habitat description, fish habitat relationships, and more recently fish population or community dynamics modeling (including habitat limiting events) and fish behavior analysis. I have a good practice in field studies of river hydraulics and fish habitat, including field studies in Canada, Belgium, Norway and Kerguelen Island (Antarctic).

SOME PROJECTS

Since 2018 Co-convenor of the workshop-site “Ain River, Confluences and Dis-Continuities”; 150 km of hydrographic network for assessing physical, biological and social spatio-temporal (dis)continuities in a hydrosystem.

Since 2017 Assessment of the effects of hydropeakings on fish communities; special emphasis on fish behaviour, fish habitat selection, stranding, ramping rates; after calibration and validation steps we use a 2D hydrodynamic model for modelling habitat shifts.

Since 2017 Assessment of the population genetic divergence in a river network with intermittent breaking of the connectivity (project ALBACOM)

Since 2012 Development of a new fish sampling protocol, adapted for long distances (SPA: Snorkeling Point Abundance). This protocol is used in the restoration project of the Poutès Dam (EDF) removal, on the Allier River, over 50 km, since 2013.

Since 2012 Identification of downstream migration routes of silver eels in the Rhône River over a hydropower facility (project DAARAC)

Since 2005 Analysis of the fish community response to high flow variability (hydropeakings) and temperature contrast in the Rhône River (2D hydrodynamic model; habitat models; fish behaviour; acoustic telemetry; long term (>1996) monitoring of Nuclear Power Plant heated water effluent impacts).