Mattia Amadio

Climate scientist and disaster risk expert

I am an environmental scientist with 10 years of experience in the field of climate hazards and disaster risk management. I have been involved in academic research projects at global scale, working with highly-ranked international institutions. In 2010 I was awarded a PhD in *Science and Management of Climate Change* from the Ca' Foscari University of Venice. Since 2012 I work as consultant for the World Bank's GFDRR. My expertise covers GIS analytics and mapping, impact modelling, and development of geo-analytical tools. I am a science enthusiast with a skeptical attitude.

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WORK EXPERIENCE

Short-term consultant

GFDRR, World Bank

2018 – Present   *Washington DC (US)*

- GIS Data management and analytics (ThinkHazard!; GFDRR GeoNode; Risk Data Library)
- Risk Data Library design and development
- Support for disaster risk assessment in regional projects
- Climate indicators for DRR

Contact: Pierre Chrzanowski

Asian Development Bank

2021 – Present   *Manila (PH)*

- Development of Climate and Disaster Risk screening and assessment tool

Contact: Charles A. Rodgers; Belinda Hewitt

Academic researcher

Euro-Mediterranean Centre on Climate Change

Research foundation on climate change

2012 – 2020   *Venice (IT)*

- Climate-KIC project SAFERPLACES, flash-flood hazard from extreme precipitations and risk mitigation in European cities (2 years)
- H2020 project CLARA, climate forecast enabled knowledge services (3 years)
- ECHO project CHAKE OU, flood risk mapping in Paraguay (8 months)
- National Climate Change Adaptation Plan (PNACC) for Italy (2 years)

Contact: Jaroslav Mysiak

SKILLS

GIS   Spatial analytics   Map Design   Python

Disaster risk assessment   Geodata management

LANGUAGES

English	Italian	Spanish
Full Professional Proficiency	*Native Proficiency*	*Elementary Proficiency*

LATEST PUBLICATIONS

12/2021   *Journal article*

Cost-benefit analysis of coastal flood defence measures in the North Adriatic Sea

M. Amadio, A.H. Essenfelder, S. Bagli, S. Marzi et al.

Natural Hazards and Earth System Sciences

Cost-benefit analysis of coastal flood defence infrastructures in Italy considering the effects of climate change.

2021   *Study report*

Investment in Disaster Risk Management in Europe makes economic sense

GFDRR, ECA

The World Bank

Reporting for DG-ECHO on Cost-Benefit analysis of existing DRM projects in the EU.

09/2021   *Study report*

Disasters, Conflict, and Displacement: Intersectional Risks in South Sudan

GFDRR, IOM

The World Bank

Part one: analytic mapping of intersectional risks for South Sudan based on existing data and assessments related to natural hazards and conflict and fragility.

03/2019   *Journal article*

Testing empirical and synthetic flood damage models: the case of Italy

M. Amadio, A.R. Scorzini, F. Carisi, A.H. Essenfelder et al.

Natural Hazards and Earth System Sciences

Study to evaluate the predictive performance of existing flood damage models in comparison with empirical losses.

EDUCATION

PhD in Science and Management of Climate Change

Ca' Foscari University

09/2015 - 12 / 2018   *Venice (IT)*

- Thesis title: *Integrated Framework for Flood Risk Assessment in Italy.* The thesis consists of four articles published on academic journals.