

## Dr. EFREM FERRARI

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### PROFESSIONAL SUMMARY

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Disaster Risk Management and Climate specialist with 10 years of working experience in developing countries, primarily focusing South Asia. Areas of expertise lie in Disaster Risk Management (DRM), natural resource management, and climate change. Experienced in providing advisory services and facilitating capacity development for various clients, including private sector firms and government entities.

### EXPERIENCE

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#### Fondazione CIMA

##### DRM consultant

March 2024 – July 2024

- Carried out desk research and consultations (virtual and in-person) to support the assessment of the institutional framework, infrastructures, tools and human resources capabilities related to End-to-End Early Warning System for Flood Forecasting and Drought Monitoring/Prediction and warning in the Nile Basin Region (Ethiopia, Rwanda, Sudan, South Sudan, and Uganda). Assisted Cima Foundation in developing country-specific Assessment Consultation Reports for the Nile Basin Region (Ethiopia, Rwanda, Sudan, South Sudan, and Uganda), in both draft and final version.

#### THE WORLD BANK GROUP

##### WB – South Asia Urban & Disaster Risk Management Unit

August 2021 – Present

##### DRM consultant

- Supported the implementation of two World Bank flagship initiatives, the “*Enhancing Capacity of Regional DRM and Hydromet Institutions and Last mile Connectivity*” and the “*South Asia Regional Hydromet, Early Warning and Climate Services*” (P169663 & P171154). These initiatives aimed to foster collaboration among hydromet and disaster management authorities, enhance capacity at the regional and sub-regional levels, and improve hydromet, early warning and climate services in South Asia.
- Oversaw and provided advisory support to the Regional Integrated Multi-Hazards Early Warning System for Africa and Asia (RIMES) in coordinating the South Asia Hydromet Forum (SAHF). Facilitated collaboration and regional engagement across three dimensions: i) promoting regional dialogue and knowledge sharing, including organization of regional conferences (SAHF III); ii) establishing a regional training hub and conducting capacity building activities on topic such as Impact Based Forecasting; iii) providing technical assistance to develop a regional strategy for enhancing hydromet service delivery (working papers).

##### WB – South Asia Urban & Disaster Risk Management Unit

Oct 2019 – Present

##### DRM consultant

- Supported the implementation of the “*Climate Risk & Early Warning Systems*” (CREWS) for Afghanistan, a joint World Bank – World Meteorological Organization (WMO) initiative aimed at strengthening the capacity of providers and user agencies for the development and delivery of weather, water, and climate-related early warning services. Held responsibilities for supervising consultants, organizing technical workshops, coordinating efforts, and engaging in consultations with governmental counterparts.
- Played a key role in the conceptualization, design, and pre-implementation stages of the “*Early Warning, Early Action, Early Financing Project*” (ENETAWF, P173387). This initiative aimed to enhance the resilience of rural communities to drought by integrating a satellite remote sensing-based drought early warning decision support system with pre-arranged financing and response mechanisms. Led the development of the Project Early Warning component, which involved overseeing the creation of a new Drought Early Warning Decision Support tool (developed by IWMI). Additionally, provided support for piloting and facilitating the adoption of this tool by the relevant client entities, including the Afghanistan Ministry of Agriculture, Irrigation, and Livestock (MAIL), National Statistics and Information Authority (NSIA), and the Afghanistan Meteorological Department (AMD) and Water Resources Department (WRD).
- Oversaw a comprehensive technical assessment of the capacities and needs of the Afghanistan Disaster Management Authority (ANDMA).

##### WB – South Asia Energy Unit, Kabul (Afghanistan)

May 2019 – June 2020

##### Renewable energy consultant

- Designed the off-grid component for the upcoming “*Afghanistan Energy Study Phase II TA project*” (cancelled). The component focused on establishing a robust and effective institutional framework to coordinate the promotion of productive use appliances leveraging solar energy (known as PULSE). The goal was to create the market and stimulate the demand for productivity-enhancing technologies in off-grid areas by working with private sector and government stakeholders.

**IFC – Manufacturing Agribusiness and Services Unit, Islamabad (Pakistan)** Jan 2017 – June 2020

**Lighting Afghanistan/Pakistan Program Coordinator Consultant**

- Coordinated the Afghanistan solar market diagnostic study which aimed to identify and assess capacities/bottlenecks of private sector providers in the solar energy sector and profile consumers demand for solar energy.
- Supported the establishing of B2B partnerships between global manufacturers of high-quality solar products and local distributors. This was accomplished through organizing trade events and conferences, leading to over 60,000 commercial sales of solar products.
- Planned, coordinated, and monitored targeted consumer awareness campaigns (above the line & below the line) in rural areas. These campaigns aimed to promote the usage of quality verified solar products. The efforts yielded impressive results, reaching over 10 million people.
- Co-supervised a study that utilized night-time satellite images to identify off-grid areas in Punjab and Sindh.

**ITALIAN DEVELOPMENT AGENCY – MINISTRY OF FOREIGN AFFAIRS**

**Pakistan Country Office, Islamabad (Pakistan)**

Feb 2020 – March 2021

**Short Term Expert**

- Developed a co-financing proposal totaling 20 million EUR for the IFAD's initiative '*Environmental Transformation Initiative Gilgit – Baltistan*'. The proposal aimed to foster the development of the national/international market for high-value agriculture products (apricot & potatoes) by investing in infrastructure, processing, and transformation.
- Designed a proposal amounting to 1.1 million EUR titled "*Glaciers & Students*" to support glacier monitoring in Pakistan mountain areas (Himalaya, Karakorum, and Hindu Kush) through remote sensing techniques.

**ACT Project Assistant, Islamabad (Pakistan)**

July 2015 – Oct 2016

- Supported the development of cultural & natural tourism in Lower Swat (Pakistan) through the restoration of cultural heritage.

**UNITED NATIONS**

**UNDP - Mountain and Market project, Islamabad (Pakistan)**

Nov 2017 – Feb 2018

**Terminal Evaluator**

- Principal evaluator for a GEF financed - UNDP executed initiative aimed at creating a market for Non-Timber Forest Products (NTFPs) and related supply chains in forested areas of Northern Pakistan.

**EV-K2 CNR**

**SEED Program, Gilgit (Pakistan)**

Jan 2014 – Dec 2014

**Operation officer**

- Definition of the Central Karakorum National Park zoning system, through consultation with local communities. Acted as a focal person for the program at the Karakorum International University (Gilgit).

**EDUCATION**

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**Land, Environment, Agriculture and Health, University of Padova**

Padova

**PhD in Forest and Hydrology Management in mountain areas**

2014

**SUFONAMA, University of Copenhagen-University of Padova**

Copenhagen

**MSc in Forest Science (with honors)**

2010

**OTHER CERTIFICATIONS**

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2022 – Bologna Business School (Bologna, Italy) – Course "*ESG and sustainable finance*"

2022 – WMO & CNR (Bologna, Italy) – Course "*Agricultural meteorology for sustainable water management in agroecosystems*"

**ADDITIONAL INFORMATION**

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**Languages:** English (proficient), Italian (native), Spanish (basic)

  
5<sup>th</sup> September 2024