Training a cohort of experts in weather extremes

Extreme weather events such as precipitation, drought, high temperatures and strong surface winds have a negative impact on society and the economy. The EU-funded EDIPI project aims to improve our understanding of the dynamics, predictability and impacts of extreme weather phenomena over Europe. To that end, it will train a cohort of early-stage researchers (ESRs), combining statistical mechanics, dynamical systems theory, risk management, agronomy and epidemiology. Examples of their training include the use of concepts from statistical mechanics to generate large datasets of simulated extreme winter storms or data from social networks to forecast temperature-related casualties. The project will offer...
the ESRs a wide range of career opportunities in the academic, public and private sectors.

**Fields of science**

natural sciences > mathematics > applied mathematics > dynamical systems  
agricultural sciences > agriculture, forestry, and fisheries > agriculture > agronomy  
social sciences > sociology > governance > crisis management  
natural sciences > physical sciences > classical mechanics > statistical mechanics  
natural sciences > earth and related environmental sciences > atmospheric sciences > climatology

**Keywords**

- Climate Science  
- Atmospheric Physics  
- Weather Extremes  
- Dynamical Systems Theory  
- Statistical  
- Mechanics

**Programme(s)**

- H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions  
- H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

**Topic(s)**

- MSCA-ITN-2020 - Innovative Training Networks

**Call for proposal**

- H2020-MSCA-ITN-2020

See other projects for this call

**Funding Scheme**

- MSCA-ITN - Marie Skłodowska-Curie Innovative Training Networks (ITN)
Coordinator

UPPSALA UNIVERSITET
Net EU contribution
€ 845 948,88
Address
Von kraemers alle 4
751 05 Uppsala
Sweden
Region
Östra Sverige > Östra Mellansverige > Uppsala län
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

Participants (8)

STOCKHOLMS UNIVERSITET
Sweden
Net EU contribution
€ 281 982,96
Address
Universitetsvagen 10
10691 Stockholm
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Activity type
Higher or Secondary Education Establishments
Links
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

France

Net EU contribution

€ 824,406,12

Address

Rue michel ange 3
75794 Paris

Region

Île-de-France > Île-de-France > Paris

Activity type

Research Organisations

Links

Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network

Other funding

€ 0,00

KARLSRUHER INSTITUT FUER TECHNOLOGIE

Germany

Net EU contribution

€ 505,576,80

Address

Kaiserstrasse 12
76131 Karlsruhe

Region

Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis

Activity type
TEL AVIV UNIVERSITY

Israel

Net EU contribution
€ 263 500,92

Address
Ramat Aviv
69978 Tel Aviv

Activity type
Higher or Secondary Education Establishments

FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA

Spain

Net EU contribution
€ 250 904,88

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Este > Cataluña > Barcelona
Research Organisations

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Other funding
€ 0,00

IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE
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Net EU contribution
€ 303 172,56
Address
South kensington campus exhibition road
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London > Inner London — West > Westminster
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 0,00

INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE
Belgium
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€ 256 320,00
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1180 Bruxelles / brussel
Region
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland

Net EU contribution

€ 281 276.64

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8092 Zuerich

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network

Other funding

€ 0,00

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