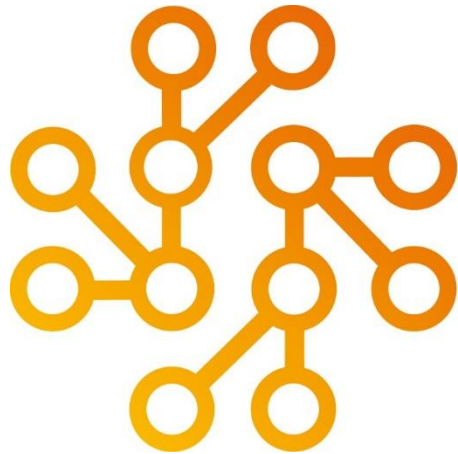


Informatics Europe

The European Voice of
Informatics Research and Education

Members Special Session – October 23, 2023

Prof. Dr. Enrico Nardelli – IE President
Nuria Anguera – IE Executive Director



INFORMATICS
EUROPE

Intro round

Prof. Dr. Enrico Nardelli
Università di Roma "Tor Vergata"

IE President

nardelli@mat.uniroma2.it



Nuria Anguera

IE Executive Director, Zurich

nuria.anguera@informatics-europe.org



Members Introductions

In < 1 minute...

1. Who are you
2. Questions to be answered during this session





INFORMATICS
EUROPE

Mission & Structure

Started in 2005 as a Dept. Heads & Deans gathering, to advance quality teaching and research in Europe

“The departments of computer science at EPF Lausanne and ETH Zurich are taking the initiative of a first meeting of heads of departments in Europe.

Until now there hadn't been any effort, comparable to the Computing Research Association in the US with its annual “Snowbird” conference, to provide a forum where they could discuss strategic and managerial matters of the discipline and coordinate their efforts. We feel it's time to start.”

1st ECSS (European CS Summit) call, 2005

IE today is a community of European leaders in Informatics R&E

- We are a **non-profit membership association**.
- We represent the **public and private research community on informatics*** in Europe and neighbouring countries.
- We focus on top-level international dialogues on **strategic, managerial and policy issues** related with Education, Research, and the Social Impact of informatics.
- Our members are **institutions** (departments, institutes, faculties, research labs and companies). Membership extends to **all faculty** of member institutions **and researchers** of their labs.
- **We exist because some achievements are only possible when acting as a community.**

* Informatics is the preferred term in Europe for what is known as Computing or Computer Science in other parts of the world.

IE represents ~ 50K researchers across Europe

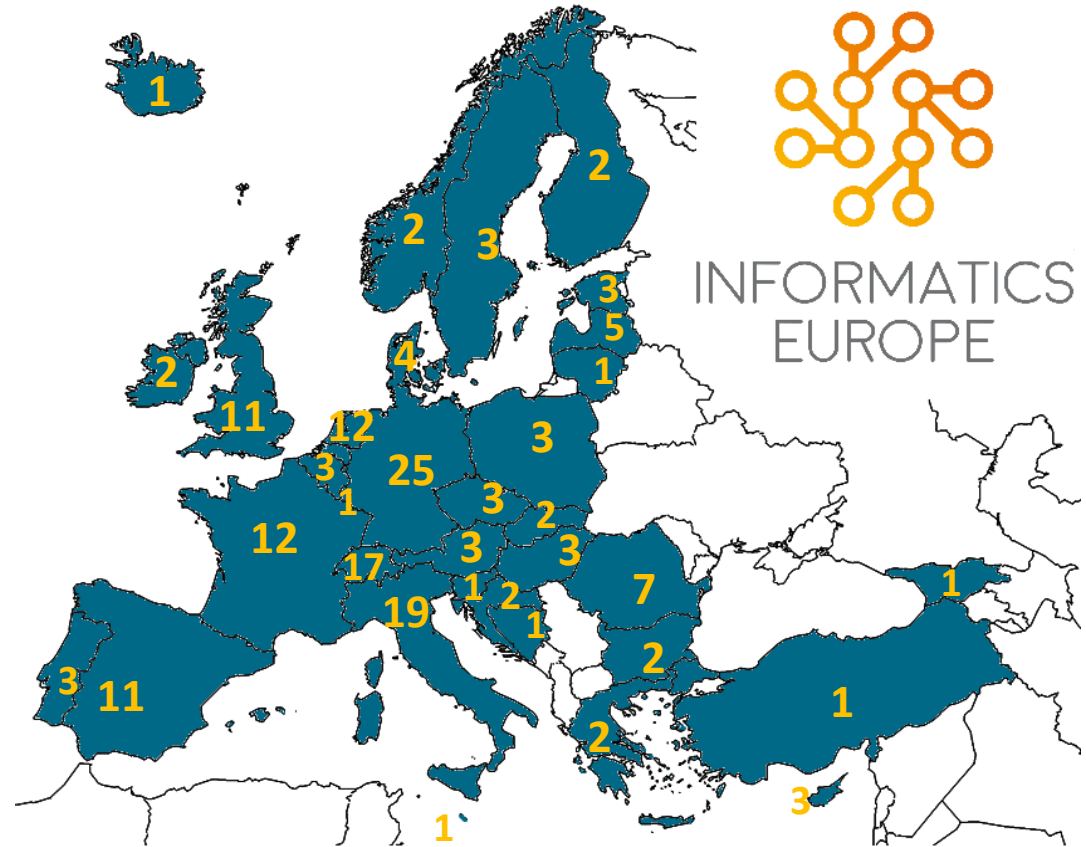
Over **170 Institutions**
from **> 30 Countries**

Avg. growth rate of 14%



**The more we are the
louder our voice is!**

[Full member's list](#) and statistics
on our website



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Adapted image from nicepng.com

*Assuming an average of 7 pp/research group and 10, 20 resp. 50 research groups per small, medium resp. large institution.

Our Strength: leverage variety to shape a concerted European Informatics future



Mission

Find concerted positions and **act on shared priorities** in Education, Research, and the Social Impact of informatics, by **fostering unity** in the variety of its member institutions and **promoting** pan-European **collaboration**.

In particular, we aim to **empower our members** to:

- Create opportunities for **joint initiatives** and knowledge exchange
- Advocate for Informatics in European **policy discussions**.
- **Promote quality** standards and best practices
- Foster **ethical and responsible Informatics** teaching and research.
- **Nurture talent**, assuring a pipeline of diverse leaders with broad understanding of the discipline.

Steered by Scientists at the service of the Informatics community - Our Board



Enrico Nardelli
Università di Roma 'Tor Vergata'
IE President Education



Jean-Marc Jézéquel
IRISA/University of Rennes
IE Vice President Policy recommendations



Elisabetta Di Nitto
Politecnico di Milano
IE Vice President Diversity



Gregor Engels
Paderborn University
IE Treasurer



Marco Aiello
University of Stuttgart
Green ICT



Lenuta Alboaie
Alexandru Ioan Cuza University of Iași
Industry Engagement



Přemek Brada
University of West Bohemia
Data Analysis & Reporting



Dick Bulterman
CWI/VU Amsterdam
Webinars



Manuel Carro
Technical University of Madrid / IMDEA
Open Science



Gordana Dodig-Crnkovic
Chalmers University of Technology
Ethics



Harald Gall
University of Zurich
Department Evaluations



Dimka Karastoyanova
University of Groningen
Early Career Researchers



Kim Mens
Université catholique de Louvain
Membership



Viorel Negru
West University of Timisoara
Membership



Pekka Orponen
Aalto University
NIA relations



Nuria Anguera
IE Executive Director



Administrated by 2.7 FTE: IE Office



Nuria ANGUERA
Executive Director

Responsibilities:

- Overall strategy, operations, projects and activities
- Relations with Industry
- Membership Committee



Karin TRIVIERE
Admin. & Accounting

Responsibilities:

- Membership Management
- Accounting
- ECSS Organization
- Office General Administration



Kit Wan CHUI
Communication

Responsibilities:

- Communications
- Relations with National Informatics Associations
- Academic Empowerment (courses, Webinars, etc.)



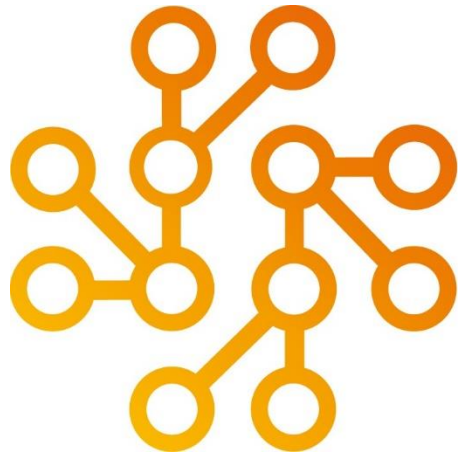
Svetlana TIKHONENKO
Web, Data & Analysis

Responsibilities:

- Analytics & Data Portal
- CV repository
- EUGAIN GHM
- Webpage management

Webpage link





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Activities in a nutshell

Working Groups channel community contribution

Currently 7 active ones

- [Education Research](#) (39 people, from 29 institutions)
- [Ethics](#) (19 people, from 12 institutions)
- [WIRE](#) ⇒ [Diversity & Inclusion](#) (16 people, from 13 institutions)
- [Data Analysis & reporting](#) (12 people, from 10 institutions)
- [Policy Recommendations](#) (6 people, incl. repr. of 5 NIAs)
- [Green ICT](#) (13 people, from 11 institutions)
- [Open Science](#) (19 people, from 17 institutions)

Leading to joint pan-European activities...

Including EU funded projects & partnerships



DIGHUM

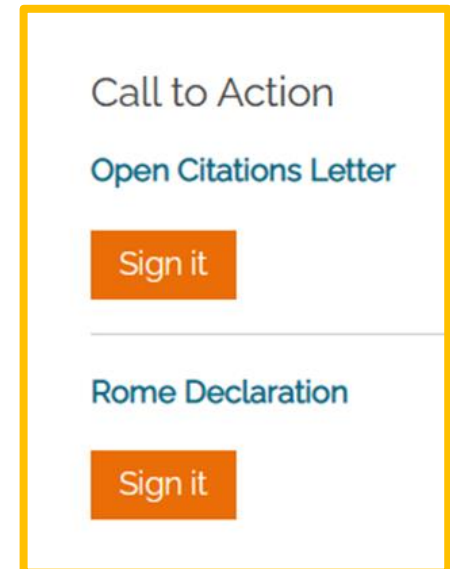


**Inclusion
4EU**

... Policy Recommendations ...

At European, national and institutional level

- With the collaboration of our member **National Informatics Associations**
- On issues that relate to any of the goals of the organisation, **at the European level**
- Aiming at **empowering**
 - IE member institutions
 - National policies
 - European Commission decisions
- Outcomes: statements, positions, reports, ... but also open **calls to action**



... and Community empowerment through IE Services & WGs' Outcomes

Knowledge Exchange



INFORMATICS EUROPE
INFORMATICS HIGHER EDUCATION DATA PORTAL
11 ACADEMIC YEARS
23 COUNTRIES
NEW



Rainer Naeffgen
Fluck and Parmentier
Editors
Informatics in the Future
The making of the
19th European Computer Science Society
ECSS 2013, Berlin, October 2012



INFORMATICS EUROPE
MORE WOMEN IN INFORMATICS RESEARCH AND EDUCATION

ECSS 2023
INFORMATICS:
SHAPING THE FUTURE

European Visibility



GET IN THE SPOTLIGHT!
Promote your institute, programmes and activities at ECSS 2022

ECSS 2022 organised by
INFORMATICS EUROPE
Universität Hamburg
GERMAN INFORMATICS SOCIETY
SICP

Development Opportunities (for Departments and Individuals)



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LOOK & JOIN WHERE INFORMATICS TALENTS ARE

CV REPOSITORY
New career service to connect Informatics talents and employers across Europe

platform development sponsored by **BENDING SPOONS**



Job Portal
Free posting for members



Department Evaluation
Special fees for IE members

ANALYSIS
AUDIT
ASSESSMENT
QUALITY
PLAN
RESULT



INFORMATICS EUROPE
EUGAIN
GENDER EQUALITY IN INFORMATICS WEBINAR SERIES

Our webinar series has been renewed with award-winning speakers!
Free webinars begin again from April - register to join us now!



INFORMATICS EUROPE presents
BESPOKE - ONLINE ACADEMIC LEADERSHIP DEVELOPMENT COURSE
by computer scientists, for computer scientists, with computer scientists

Two Excellent Presenters
Two Excellent Speakers
Two Excellent Mentors

Six facilitated 2-hour workshops with orientation session start in September
ENROLL NOW (Early Bird Offer until Aug 31st)



Excellent Research Results
Research community
Early Career Researchers WS



2023 Informatics Europe Best Dissertation Award
Rewarding young researchers and disseminating excellent research

INFORMATICS EUROPE
Springer
EUR 3,000 Prize and thesis publication

Click on the pictures to follow the links



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Call to Action - Community engagement

IE membership brings tangible benefits to you and your organization

- Access to Resources & Insights
- International Recognition and Visibility
- Bring forward your institution's interest in top-level international dialogues on strategic management and policy issues.
- Expanded talent pool
- Special fees on services, for all faculty members
- Networking and collaboration



You & your organization are key for IE

IE will get as far as we collectively want to take it



Be IE ambassador in your institution and networks!

- Lead and participate in IE activities
Working Groups, Board of directors, Webinar, Surveys, joining/hosting ECSS
- Use and promote IE services
- Follow and share us ([LinkedIn](#) / [twitter](#) / [IE bulletin](#))

Active Participation

1. How do you see your participation / our collaboration going forward?
2. Any other ideas?
3. Questions?



if you want to go
fast, go alone;
if you want to go
far, go **together**.

Let's enjoy ECSS!

Annex: Further exploring some IE activities and services

IE publications: policy recommendations, reports, best practice booklets, articles

Public Consultation on European Digital Principles



Feedback provided by Informatics Europe to the European Commission for [public consultation](#) on the formulation of a set of principles to promote and uphold EU values in the digital space.

Submitted to the European Commission on 2 Sep 2021.

[IE-Feedback-EC-European Digital Principles.pdf](#) [Details](#) [Download](#)

File Size: 117.49 kB
Date: 02 September 2021

Bridging the Digital Talent Gap: Towards Successful Industry-University Partnerships



This report presents the results of the discussions held during the [workshop Bridging the Digital Talent Gap Towards Successful Industry-University Partnerships](#) organized by Informatics Europe and the European Commission's Directorate-General for Communications Networks, Content and Technology (DG CONNECT) in Rome on October 2019.

[bridging-digital-talent-gap-report.pdf](#) [Details](#) [Download](#)

File Size: 673.44 kB
Date: 02 April 2020

Feedback on the Draft Report "Computing Curricula 2020"



Feedback provided by Informatics Europe on the Draft Report of the [Computing Curricula 2020 \(CC2020\)](#) task force. CC2020 is a joint project launched by professional computing societies to examine the current curricular guidelines for academic degree programs in Computing and provide a vision for the future of Computing.

Submitted to the CC2020 Steering Committee on 15 June 2020.

[IE-comments-CC-2020.pdf](#) [Details](#) [Download](#)

File Size: 134.96 kB
Date: 18 June 2020

Informatics as a Fundamental Discipline for the 21st Century



The article published in the "Communication of the ACM" journal describes the current state of the Informatics education at the European scene, outlines main statements, actions and outcomes of the Informatics for All Initiative and explains main challenges related to the realization of the Informatics for All Strategy across Europe.

[CACM_Informatics_All.pdf](#) [Details](#) [Download](#)

File Size: 6.22 MB
Date: 04 April 2019

European Values for Ethics in Digital Technology



The research report on European Values for Ethics in Technology is the first Intellectual Output of the [Ethics4EU project](#). Digital Ethics deals with the impact of digital Information and Communication Technologies (ICT) on our societies and the environment at large. It covers a wide spectrum of societal impacts including issues such as data governance, privacy and personal data, Artificial Intelligence (AI), algorithmic decision-making and pervasive technologies.

[European-Values-for-Ethics-in-Digital-Technology.pdf](#) [Details](#) [Download](#)

File Size: 1.42 MB
Date: 08 April 2021

Informatics Research Evaluation



Report on Informatics Research Evaluation prepared by the Informatics Europe [Research Evaluation Working Group](#). The report focuses mainly on the main principles and criteria that should be followed when individual researchers are evaluated for their research activity in the field of Informatics, addressing the specificities of this area. It confirms the findings of the 2008 report on Research Evaluation for Computer Science, while incorporating recent developments concerning the growing emphasis on collaborative, transparent, reproducible and accessible research.

A [summary](#) is openly accessible by following [this link](#).
[Logged in IE members](#) can download the [full report](#) using the link below.

[Informatics-Research-Evaluation-2018.pdf](#) [Details](#) [Download](#)

File Size: 1.03 MB
Date: 22 March 2018

Webpage link



Informatics in Schools activities

Fostering high-quality education in Informatics is one of the pillars of Informatics Europe. We are committed to **promoting informatics education as one of the fundamentals in modern education across Europe**. Here are some of our activity and achievement highlights:

[CECE's Map of Informatics in European Schools, in partnership with ACM Europe](#) >

[Establishment of Informatics for All initiative, workshops & position paper](#) >

[Informatics Reference Framework for School](#) >

[IE at EU Commission Expert Group on AI and Data in Education and Training](#) >

We also run **petitions to advocate informatics for all at the European level**, and support national associations in doing the same at their local level. Take action and sign them!

- [Rome Declaration](#): join us to make Informatics accessible to all, **throughout Europe**.
- [Joint manifesto "Por la Informática en España"](#), supporting our member institutions [SCIE](#), and [CODDII](#) to promote the extension of informatics education at all levels of the educational system **in Spain**.

Webpage link



Recent outcomes of the I4All coalition

Designing and Implementing a Concrete Informatics Curriculum for School



This document focuses on pedagogical issues and related concerns that should be considered when using the [Informatics Reference Framework for School](#) for the development of concrete curricula.

It is, in fact, of utmost importance to have concrete curricula designed to take into account particular situations and needs in each country, as well as accommodating age and appropriate stages of development of pupils. An informatics curriculum should be designed for all pupils; equality, diversity and inclusion issues are crucial, including the important issue of gender balance.

[Details](#)
[Download](#)

 [Designing-and-Implementing-a-Concrete-Informatics-Curriculum-for-School.pdf](#)

File Size: 888.99 kB

Date: 16 December 2022

Informatics Reference Framework for School



The Reference Framework was published in February 2022 as a report to support the advancement of informatics as a fundamental discipline for the 21st century. It is a publication of the Informatics for All coalition, of which Informatics Europe is one of the founding members since 2018.

This Reference Framework has been presented to European Commission and further discussed at a stakeholder consultation meeting, on 6th April in Brussels, in preparation for a Council Recommendation on improving the provision of digital skills in education and training.

[Details](#)
[Download](#)

Webpage link



IE Higher Education Data Portal and Data Analysis & Reporting WG



Higher Education Data Portal



The Informatics Higher Education Data Portal is a project of Informatics Europe created with the goal of providing our members, the Informatics academic community, policymakers, industry and other stakeholders a complete and reliable picture of the state of Informatics (Computer Science, Computing, IT, ICT) higher education in Europe. Informatics Europe empowers our community by providing the precise and objective information that is indispensable for understanding the field and making informed, effective policy decisions in Europe.

What is Available?

This portal presents a wealth of fundamental data including:

- **Statistics** of students enrolled and degrees awarded at Bachelor's, Master's and PhD level, including gender distribution in absolute numbers and percentages, both at Research Universities and Universities of Applied Sciences.
- **Academic salaries** reported at the level of PhD Candidate, Postdoctoral Researcher and several Professor ranks in selected countries (available only to Informatics Europe members).

Beyond the statistics, a range of qualitative data that supplements and complements the statistics is presented, including:

- **Subjects (Study Programmes):** list of terms identifying Informatics study programmes in each country.
- **Institutions:** list of universities and academic units offering Informatics higher education in each country, including University names, Department/Faculty/School/Institute names and direct hyperlinks to their websites.
- **Higher Education Systems:** description of the higher education system in each country.
- **Academic Positions & Titles:** comparative analysis of some key academic positions - PhD Candidate, Postdoctoral Researcher and Professor – and corresponding employment details in selected countries.

Statistics

Subjects

Institutions & Academic Units

Higher Education Systems

Academic Positions & Titles

Academic Salaries

Download Data (Only For Members)

Webpage link



Ethics Activities

Take the Ethics Survey



The Project

The Ethics4EU Project is an Erasmus+ international project that explores issues around teaching ethics in Computer Science. Ethics4EU has developed new curricula, best practices and learning resources for Digital Ethics for Computer Science lecturers. It follows a "train the trainer" model for up-skilling Computer Science lecturers across Europe.

Ethics Working Group

Long-term Goals

- Create a sustainable European Community of Practice in Informatics ethics
- Ensure that the importance of teaching ethics in Informatics degree courses is recognized
- Increase literacy on ethics among Informatics lecturers
- Increase literacy on ethics among decision-makers (CEOs, policymakers political organizations)

WG Operation

- Chair: [Dympna O'Sullivan](#), TU Dublin, Ireland
- Secretary: [Gordana Dodig-Crnkovic](#), Chalmers University of Technology, Sweden
- Next meetings: TBA

2022 - 2023 Objectives and Related Activities

- Identify gaps in Informatics lecturers' knowledge of ethics
- Better understand the European landscape in relation to teaching practices for Ethics in Informatics and related disciplines
- Raise awareness about the importance of teaching Ethics to students in Informatics and related disciplines
- Disseminate best practices in teaching Ethics to Informatics students

Activity 1: Survey - Teaching Practices for Ethics in Informatics >

Activity 2: Community of Practice - Instruction of Ethics >

Activity 3: Best Practice Repository (April 2023 - September 2023) >

Webpage link



CECE's Map of Informatics in European Schools

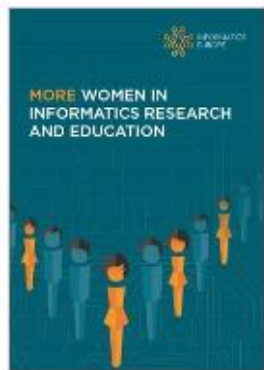
A joint project by  acm Europe and



DIGHUM

Inclusion4EU

Diversity & Inclusion Activities



2023 Minerva Informatics Equality Award

Supporting female careers in informatics research and education



Home /
EUGAIN
European Network For
Gender Balance in
Informatics

Diversity and Inclusion Working Group

Long-term Goals

- Contribute to designing software systems that behave respecting diversity.
- Ensure the diversity dimension is considered in the education process of Informatics Europe members.
- Defining best practices to cope with diversity through inclusion in Informatics.

WG Operation

- Chair: [Simona Motogna](#), Babeş-Bolyai University, Romania.
- Secretary: [Claire Matti](#), Haute école pédagogique du canton de Vaud, Switzerland.
- Next meeting: May 2nd

2022 - 2023 Objectives and Activities

- Creating awareness about the problems, challenges, and values of diversity;
- Acting as a collector of European initiatives on diversity and inclusion in Informatics Research and Education.
- Start a network of interested parties.

Activity 1: Mapping of current initiatives – November 2022 – April 2023 >

Activity 2: Best Practices booklet – April 2023 – July 2023 >

Activity 3: Repository creation – December 2022 – July 2023 >

Webpage link



Open Science Activities

IE Open Science Working Group

As part of its mission to **give unbiased information and to agglutinate and balance diverse opinions**, Informatics Europe formed in 2021 an Open Science Working Group, in an attempt to clarify the main actors and trends behind Open Science. This Working Group inherits ideas and aims from the [Leaders Workshop](#) session that took place during [ECSS 2021](#) in Madrid, and where some very interesting opinions were presented. It currently consists of the following Task Forces:

- Open Science and Data Research Management
- Open Access
- Conference Maturity Model
- Open Code Repositories
- [Open Citations Initiative](#)

Outcome

Open Access: Status and Recommendations



This document summarizes the evolution of scientific publication models towards providing open access to research results and makes recommendations from an academic standpoint on future action paths.

 [open-access-status-and-recommendations.pdf](#)

Details

Download

File Size: 2.49 MB

Date: 08 May 2023

Webpage link



Department Evaluation Service

Charting a Sustainable Success Path for Your Department

- Expert-Led Assessment
- Peer-Review Excellence
- Transparency and Neutrality
- IE quality guarantee
- Comprehensive Insights
- Beyond Research Results



Webpage link



Academic Leadership Courses

For, with, by Computer Scientists



Evidence-based leadership practices to **create positive academic cultures**



In which people can **thrive together** and do great work **in research, education & impact on society**



“[The course] really **changed the way I think about my work**. It cannot be said enough: this course was **the best course I have ever taken.**”

[Online course participant]

Webpage link

