TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY

M.Sc. Program INNOVATION SCIENCES

MENTOR PROFILES

(LAST UPDATE SEPTEMBER 2020)

All listed mentors are connected to the M.Sc. Program Innovation Sciences as tenured (or tenure-track) staff

prof.dr. F. (Floor) Alkemade

Topics:

Energy and mobility transitions

Fair energy transitions

Social simulation

Energy and Innovation policy

Courses

0EM120 Governing Innovations

TU/e

Prof.dr. R.N.A. (Rudi) Bekkers

Topics

Standardization and intellectual property rights

University-industry knowledge transfer

Innovation in network industries

Courses

0EM160 Innovation and Intellectual Property Rights

0EM81 Innovation and intellectual property

0SAUC0/OSEUB0/OSSUC0 Patents design rights & standards project

dr. Frauke Behrendt

Topics:

- Sustainable Mobility
- Smart Mobility
- Cycling and active modes
- Mobile Media
- Datafication
- Digital innovation
- Sonic and Creative Approaches
- Qualitative Methodologies

Courses:

- OSEUCO Future of Mobility – Project
- OSAUBO Future of Mobility – Exploratory

TU/e

Prof.dr. H.C. (Heleen) de Coninck

Topics

- International and national climate policy
- Technology development and transfer to developing countries, and international cooperation in technology and innovation
- Energy-intensive industry, energy, CO_2 capture and storage
- Just transitions, systemic and transformational change

Courses I'm contributing to:

0EM310 From industrial ecology to cradle to cradle

0EM140 Energy, Economy and Society

TU/e

dr. M. (Mila) Davids

Topics

The knowledge society

Circulation of knowledge

Innovation in a global context

History of technology

High-tech cluster Eindhoven

Courses

0EM170 Global Connections

0SAB0 USE base: Ethics and history of technology

Fields of expertise:

Knowledge transfer & intermediary actors, food systems & health in historical context, business history, Taiwanese developments, Innovation & Learning

TU/e

Dr. J.I. (Johanna) Höffken

Topics

Responsible innovations in and for the Global South

Responsible innovation at the crossroads of education and companies

Smart Grids in Europe and in India

(Theories of)

Responsible Innovation, participation, design approaches and business models in the Global South

Qualitative research methods

Courses

0SV00- Sustainable Development in a Global Context

0SEUD0, 0SSUI0, 0SAUG0 – Responsible Innovation for the World

0EM110 – Research Methodologies: Ethnography

0EM200 – International Development and Sustainability

dr. K. (Karena) Kalmbach

Topics

History of Technology / Environmental History

Nuclear History (accidents, waste, low level radiation)

Cultural History

Technology and Emotions

Social constructions of fear

Crises and Disasters

Chernobyl / Fukushima

Cultural meanings / narratives of crises and disasters

Courses

0EM130 Modern Societies in Transition

Dr.ir. A.F. (Arjan) Kirkels

Current interests:

•Sustainability assessment, critical assessment, responsible innovation

•Linking industrial ecology & transitions
Linking industrial ecology & business models

•New energy carriers, energy storage
(metal fuels, etc)

•Circular economy

5LEF0 System Integration Project (MCA) (core)
0EM310 From industrial ecology to cradle to cradle (specialisation)

Fields of expertise:

- Renewable Energy • Sustainability / industrial ecology
- Technology assessment / feasibility studies : fact based, value driven
- Mixed methods • Action research: stakeholder approaches
- Framing, expectations, debate, discourse analysis

dr. E. (Elena) Mas-Tur

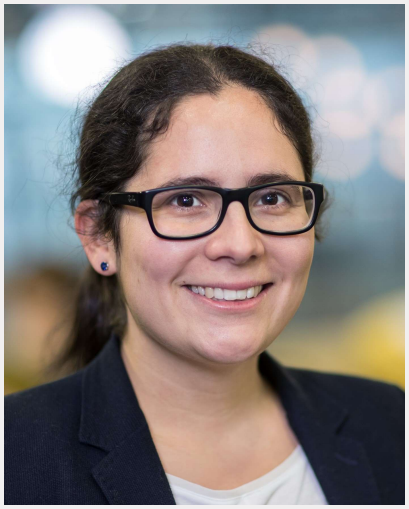
Topics

Measuring innovation with patents and patent citations

Diffusion of knowledge and innovations

Collaborative knowledge creation

Science quality and questionable research practices



Courses:

0EM110 Research Methodlogy

0EM160 Intellectual property rights

0SV30 Economics of innovation: introduction

USE learning line Patents and standards (0SSUC0, 0SAUC0)

USE learning line Information sciences, technology and society (3UAU0)

Prof.dr. R. (Ruth) Oldenziel

Position: Editor-in-Chief *Technology & Culture*

Topics

American and European History

History of Technology

Gender and Technology

User Perspective of Technology

Sustainable Urban Mobility in Global Context (Cycling, Pedestrianism, and Public Transit)

Courses

0EM170 Global Connections

0EM82 Knowledge infrastructures in a globalizing world

TU/e

Dr Georgios Papachristos

Topics:

Sociotechnical transitions theory & case application:

- niche development dynamics
- sustainable energy & mobility

Strategic management: Innovation ecosystems & business models

Technology platforms competition & diffusion

Application of system dynamics modelling & simulation

Courses:

- 0SV30 Economics of Innovation
- 0SV50 Managing Sustainable Technology–OGO
- OSV100 Economics of Innovation advanced
- 0EM100 Evolutionary Foundations of Innovation Science

Dr. E. (Emilio) Raiteri

Topics

Economics of Innovation and Intellectual Property

Innovation policy with a focus on Public Procurement for Innovation

Knowledge diffusion through patents

Courses:

0ZK00 Intellectual property rights for new ventures

0SV60 Economic policy

TU/e

dr. H.A. (Henny) Romijn

Interests:

- Social, economic & environmental sustainability of development projects in de Global South, mainly related to renewable energy and sanitation
- Learning / capacity building for sustainable development
- Upscaling/replication of sustainable development initiatives
- Innovative delivery models (“business models”) suitable for poor countries
- (Social) entrepreneurship in the Global South

Courses:

0EM140 Energy, Economy and Society

0EM200 International Development and Sustainability

Fields of expertise:

Development studies; development economics; sustainability transition processes in developing countries; techno-economic feasibility studies.

TU/e

dr. B.M. (Bert) Sadowski

Topics

Economics of innovation, Business Model Innovation

Digital markets, Internet of Things, Blockchain

Data analysis with R and Python

Courses

3UEU0 Communications and Computing

0EM190 Infonomics

3UAU0 Information Technologies of the Future

0SV70 Evaluating economic policy: social cost benefit analysis

TU/e

Prof.dr.ir. Erik van der Vleuten

CURRENT RESEARCH INTERESTS

- Global sustainability transition studies: especially sustainability connections across the global North-South divide
- Historical sustainability transition studies: finding connections between modern history—current issues—future imaginaries
- Application domains: energy transitions, food transitions, transport transitions, the infrastructure transition, the ongoing Internet transition, ecological transitions and more. Also: transitions across sectors ('connected' or 'deep' transitions).

OLDER RESEARCH THEMES

- Technology & European integration/fragmentation
- Engineers & Societal Challenges in long-term perspective
- Infrastructure & socio-ecological change

COURSES

0SV80 Sustainable technology in society: advanced; **0EM130** Modern Societies in Transition (from 2021); 0EM110 Research methodology for the innovation sciences ; 0SAB0 USE basic: ethics and history of technology

TU/e

dr. ir. F.C.A. (Frank) Veraart

Topics:

Long-term perspectives on:

Monitoring sustainability

Resource chain and sustainability development

Sustainability trade-offs of raw material imports

Transitions in urban mobility

Sustainability in land use policies

Courses

0SAB0 USE basic: Ethics and history of technology

0SV10 Technology in society: introduction

dr. ir. A.J. (Anna) Wieczorek

Conceptual topics:
- Sustainability transitions
- Experiments and upscaling
- Architectural innovations (e.g. blockchain, VPP)
- Smart vs sustainable
- New Business Models
- Social justice and participation

Geo scope:
- Global South (developing Asia, Latin America)
- Global North (Europe)

Empirical:
- Energy
- Urban mobility

Projects:
- Community-based Virtual Power Plant
- Urban biking
- Smart Mobility
- Upscaling of co-creation
- Fair transitions

Courses:
- 0EM150 Responsible Innovation & Sustainability Transitions
- 0SV40 Managing Sustainable Technology in Society
- 0PDE05 Transformative approaches to energy, mobility & smart cities

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