



### Please note:

- We try to match IS students to staff mentors based on joint affinity with research topics and/or methods. But this is not always possible for logistic reasons. Note that all listed staff at our group should in principle be quite capable of mentoring any student, and when the time comes, refer students to appropriate colleagues for MSc thesis supervision.
- All listed mentor staff are connected to the M.Sc. Program *Innovation Sciences* as tenured (or tenure-track) staff at the *Technology Innovation Society* group of the School of Innovation Sciences.
- These slides are \*\*\* indicative only \*\*\* of their profile & main research interests



# prof.dr. F. (Floor) Alkemade

## Topics:

**Energy and mobility transitions** 

Fair energy transitions

Social simulation

**Energy and Innovation policy** 



Courses

**OEM120 Governing Innovations** 



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

## **Topics**

Standardization and intellectual property rights

University-industry knowledge transfer

Innovation in network industries



### Courses

<u>OEM160</u> Innovation and Intellectual Property Rights

<u>OEM81</u> Innovation and intellectual property

<u>OSAUCO</u>/OSEUBO/OSSUCO 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





## **Dr. Jonas Colen Ladeia Torrens**

I am interested in supervising students in **(urban)** sustainability transitions, with particular attention to the processes of urban, policy and societal experimentation and their institutionalisation in local and regional governments, across different empirical domains and provision systems. I work closely with local and regional authorities in the Netherlands. These are some of my interests:

- How to develop 'transformative capacity' in local authorities and increase the impact of their activities?
- How to monitor and evaluate experiments, labs and experimental programmes?
- How to accelerate innovations in the maintenance of urban infrastructures and align them with sustainability objectives?
- How to catalogue, monitor and develop 'portfolios of experimentation' conducive to accelerating sustainability transitions?
- How to facilitate different dimensions of learning (technical, political, social) in service of sustainability transitions?
- How to develop 'learning infrastructures' and platforms for catalysing sustainability transitions at local and regional scales?

Empirically, this includes an interest in governmental and civil society efforts to initiate and run living labs, innovation labs and experimental programmes. I am also keen to explore new topics such as the emergence of 'chief technology' and 'chief science officers' in cities across the globe, understanding how they operate and how they impact the abovementioned questions or emerging approaches to project management that respond to sustainability transitions.

## 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<sub>2</sub> 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





## dr. M. (Mila) Davids

**Topics** 

The knowledge society

Circulation of knowledge

Innovation in a global context

History of technology

High-tech cluster Eindhoven

Courses

**OEM170** Global Connections

OSABO 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



# 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



OSV00-Sustainable Development in a Global Context

OSEUDO, OSSUIO, OSAUGO - Responsible Innovation for the World

0EM110 - Research Methodologies: Ethnography

0EM200 - International Development and Sustainability





## 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

5LEFO 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** 

<u>OEM160</u> Intellectual property rights

**OSV30** Economics of innovation: introduction

USE learning line Patents and standards (OSSUCO, OSAUCO)

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

**OEM170** Global Connections

**OEM82** Knowledge infrastructures in a globalizing world





## **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:

- 0SV50 Managing Sustainable Technology—OGO
- OSV80 Sustainable technology in society: advanced
- 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:

<u>OZKOO</u> Intellectual property rights for new ventures

**OSV60** Economic policy



# 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.



## dr. B.M. (Bert) Sadowski

## **Topics**

Economics of innovation, Business Model Innovation

Digital markets, Internet of Things, Blockchain

Data analysis with R and Python



**3UEU0** Communications and Computing

**OEM190** Infonomics

<u>3UAU0</u> Information Technologies of the Future

<u>OSV70</u> Evaluating economic policy: social cost benefit analysis





## Prof.dr.ir. Erik van der Vleuten

#### **CURRENT RESEARCH INTERESTS**

- Connected sustainability transitions across the global North-South divide
- Historical sustainable innovation and transition studies.

#### **OLDER RESEARCH THEMES**

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

### **COURSES**

**0EM130** Modern Societies in Transition: Introduction to Historical Transition Studies <u>0SV80</u> Sustainable technology in society: advanced <u>0SAB0</u> USE basic: ethics and history of technology





## 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



OSABO USE basic: Ethics and history of technology

<u>OSV10</u> Technology in society: introduction





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

#### EXPERTISE AND ONGOING ACTIVITIES IN THE FOLLOWING 3 AREAS:

#### 1. Energy transitions with particular attention to:

- new actors, new roles, business models, engagement, power relations: energy communities, aggregators, smart prosumers, DSOs, TSOs
- institutional aspects including regulatory and market change, market arrangements and incentives
- technological advances incl. ICT platforms and their role in a new organisation of the energy system, smart grids
- (demand side) flexibility potential of DER
- upscaling and replication in the context of deep transitions
- decentralised energy futures

Project related to this topic: cVPP: https://research.tue.nl/en/projects/cvpp-community-based-virtual-power-plant

### 2. Organising learning and knowledge for regional energy transition, including:

- living labs, digital twins
- multilevel governance
- transformative capacity
- knowledge and learning dynamics in transitions
- regional aspects of transitions, RES

Project related to this topic: ORAKLE: https://research.tue.nl/en/projects/organising-knowledge-and-learning-for-the-regional-energy-transit

### 3. Sustainable University and specifically:

- making TU/e's research, education, campus and governance sustainable
- interactive visioning an backcasting
- sustainability assessment of initiatives
- exploring role of universities as change agents in a broader transition to sustainability
- narratives development
- SDGs **Project related to this topic:** #SustainableTU/e, no website yet :)

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