

CURRICULUM VITAE ROB ROGGEMA

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SUMMARY/SHORT BIO

Prof. Dr. ir. Rob Roggema is currently a Faculty of Excellence Distinguished Professor of Regenerative Culture at Tecnológico de Monterrey, Monterrey, Mexico. In this role he is responsible for developing a city-wide research program on Regeneration of the city, ecologically and socially and lead the research team to fruitfully execute this through in-depth research and concrete realized projects, whilst collaborating with regional and local individuals, governmental and non-governmental stakeholders and (vulnerable) communities. This research program, 'La Ola Verde', is showing academic and tangible outcomes in the city and contributes to the teaching program in the School of Architecture and Urbanism at TEC.

Besides this, he is director/founder of Cittaideale, office for adaptive design and planning, visiting professor at Queens University Belfast and lead-author of the Architecture, Urban Design and Planning chapter of the third assessment report of the UCCRN. He has held several professorship positions, at Inholland University of Applied Sciences (Professor Landscape Driven design), Hanze University of Applied Sciences (Sustainable Spatial Transformations) and the University of Technology Sydney (Professor of Sustainable Urban Environments). He has led the climate adaptive design team 2021 for the Groningen region ('Moeder Zernike'), initiated the FEW-nexus project 'the Moveable Nexus' (SUGI), and designed the Edible Park in Ede, the Netherlands. He led the design team of 'Nature-Rich Netherlands' and was lead-landscape architect of Greening NEOM development.

He is an international renowned design-expert on sustainable cities and urban design, climate adaptation, renewable energy landscapes, urban reforestation and rewilding, and the design of urban agriculture. He developed the Swarm Planning concept, which deals with uncertainties in current planning practice, for which he received the scientific award for best paper at the Sustainable Building conference in Melbourne, 2008. His PhD-thesis has been selected for publication in Springer's 'Recognising Outstanding Research'-series (2013). In 2009, he was awarded with an honorary mention for his entry in the Rising Tides Competition, San Francisco Bay Area. In 2012 he was rewarded a 'Rubicon'-grant by the Dutch Scientific Organisation (NWO). He is the inventor of the FoodRoofRio concept, an aquaponic food system to help favela residents to grow their own food, of which the inaugural one has been realized in September 2014 in Cantagalo, Rio de Janeiro.

Rob is series editor of 'Contemporary Urban Design Thinking' (to date: eight volumes, Springer), has written three books on climate adaptation and spatial planning (Climate Adaptation: A Spatial Challenge; Swarming Landscapes: The Art of Designing for Climate Adaptation and Swarm Planning: Development of a New

Methodology Dealing with Climate Adaptation, all published by Springer), one about design charrettes (The Design Charrette: Ways to Envision Sustainable Futures, Springer), three on Urban Agriculture (Why We Need Small Cows, Ways to Design Urban Agriculture, VHL Press, 2014; Sustainable Urban Agriculture and Food Planning, Routledge, 2016 and Urban Agriculture in an Urbanizing Society, Vol. One, and Vol. Two with Cambridge Scholars Publishing, 2016), one on the Food Roofs of Rio de Janeiro (Springer, 2017) and one on The Tsunami and Fukushima Disaster, Designing for Reconstruction (Springer 2017). He has written over 30 journal articles and numerous conference papers and other articles.

He worked for several State and Municipal governments and design consultancies. In 2010 he became the inaugural visiting fellow at the Victorian Centre for Climate Change Adaptation Research, in 2014 he was the Chair of the 6th International AESOP Conference on Sustainable Food Planning in Leeuwarden and in 2018 Chair of the 6th Smart and Sustainable Built Environment (SASBE) conference in Sydney. He is Lead Expert in the URBACT III program, expert for RESURBE, member of several Editorial Boards, Guest-Editorships was Editor-in-Chief of SASBE-journal (Emerald Publishing) and regularly acts as external monitor for different Universities, processes and projects.

Amongst the design-concepts he developed are the following examples:

- Double Defence, proposing a second row of barrier island to protect the coast for storm surges in times of climate change.
- Floodable Eemdelta, anticipating sea level rise and potential disastrous flooding through allowing the landscape to flood.
- Bushfire Resilient Bendigo, anticipating bushfires by creating a protective shield and slowly moving away the town.
- Zero Fossil Groningen, designing a landscape that provides enough energy from renewable resources.
- FoodRoofRio, creating a rooftop garden with an aquaponic system, providing food for the whole family in Cantagalo favela in Rio de Janeiro.
- FishwaterbasedNL, proposing a design for the Netherlands based on a diet consisting of fish, vegetables and fruit.
- Shock Support, a plan for anticipating minor earthquake by making the houses independent from the shock transforming them into floatable houses in Groningen, the Netherlands.
- Sydney Barrier Reef, plan to create an artificial reef in front of the Sydney coast to provide a reef environment when the Great Barrier Reef doesn't survive through bleaching
- Moeder Zernike, an integrated plan for the northern Groningen landscape, connecting climate adaptation, a regenerative and saline food system with nature-based development in a landscape under threat of sea level rise and soil subsidence.
- Landscape First, a plan for Western Sydney, where taking landscape systems of ecology, water and elevation as the basis for urban development around the new Sydney Airport, integrating food-energy- water provision.
- The Green Metropolis. Regional Regenerative Plan for the Monterrey Metropolis, in which the landscape forms the basis for regenerating the region. The existing landscape and hydrological PAIN are identified, and spatial strategies and solutions are deployed to HEAL this pain. In a third step the living environments of urban residents are transformed into places the people can LOVE. First: uncover the creeks and rivers, second: provide robust spaces as hydro-ecological corridors, and Third: embed urban uses within this green-bleu network.
- The Urban Milpa, growing food based on regional and vernacular recipes and traditions, in small urban gardens (the Urban Milpa).

- Miyawaki Tiny forests: planting and monitoring of several 'tiny forests' in Monterrey and Mexico.

Rob has facilitated over 40 design charrettes in the Netherlands, Japan, Mongolia, China, Jordan, India, Mexico, Australia and New Zealand, involving communities, academics, governments and industries in the design process. He has been asked to present his work in over 50 keynote presentations, nationally and internationally, and shared his work in countless other (invited) presentations and (guest) lectures.

EDUCATION

2008 – 2012

PhD - Delft University of Technology, Faculty of Architecture, Climate Design & Sustainability and Wageningen University and Research Centre, Earth Systems Science

- Swarm Planning: Development of a Planning Methodology to deal with Climate Adaptation

1984-1990

Master - Landscape architecture (Urban), Wageningen University and Research Centre

- Nijmegen after 1990, regional design spatial expansion strategies for the City of Nijmegen and surroundings.
- Space and Form, theoretical research on urban space
- Urban design (6-months study at TU Delft)

EXPERIENCE

2023-2025

European Commission: Expert Evaluator Horizon2020

Sept. 2023 & 2024

Times Higher Education: Jury Member, Reimagine Education – Sustainability

June 2023 - now

Journal of Eco+Urbanism and Neuroarchitecture: Editorial Board Member.
www.bionovasolutions.com

Nov. 2022 – 2025

Tecnológico de Monterrey, Monterrey, México. Faculty of Excellence, School of Architecture, Arts and Design: Distinguished Professor Regenerative Culture

Nov. 2022 – now

Journal Land (MDPI): Editorial Board Member

April 2009 – now

CITTAIDEALE, Office for Adaptive Design, Spatial Planning and Design Research: Founder. www.cittaideale.eu

Jan. – March 2022

NWO (Dutch Research Council): Member assessment committee 'Climate robust water systems at landscape scale'

Sept. 2021 – April 2022

Inholland University of Applied Sciences: Alkmaar, the Netherlands: Professor Landscape-driven Design

March 2021- 2025	UCCRN Assessment Report 3.3. Lead Author of Chapter: Architecture, Urban Planning and Design
June 2021 – Jan. 2025	Journal Architecture (MDPI): Member Editorial Board
March 2021 - now	Queens University Belfast, NI: Visiting Professor Landscape Urbanism
June 2020-Dec. 2021	Western Sydney University, Parramatta, Australia: Distinguished Visiting Professor
Jan. 2019 – April 2021	Hanze University of Applied Sciences, Groningen, the Netherlands: Professor of Sustainable Spatial Transformations
Oct. 2018 – March 2019	KEIO University, Tokyo, Japan: Distinguished Global Professor
Aug. 2018 – now	LivaS International Journal for Livable Space, Trivakta University, Indonesia: Member Editorial Board
April 2017 – now	Springer: Series Editor, Contemporary Urban Design Thinking. https://link.springer.com/series/15794
Jan. 2017 – Jan. 2020	Emerald Publishing: Editor in Chief, Smart and Sustainable Environment
Dec. 2016 – Jan. 2019	University of Technology Sydney, Faculty of Design, Architecture and Building: Professor of Sustainable Urban Environments
July 2015 -now	RESURBE: Expert. http://www.unescosost.org/en/project/resurbe/ .
May 2015 – now	URBACT-III: Lead expert.
Sept. 2013 – Oct. 2015	VHL University of Applied Sciences, Department of Landscape Architecture, Velp, the Netherlands: Professor of Design for Urban Agriculture
Sept. 2013 – Dec. 2017	Swinburne University of Technology, Centre for Design Innovation, Melbourne, Australia: Adjunct Professor
Nov. 2012 – Aug. 2013	Swinburne University of Technology, The Swinburne Institute for Social Research, Melbourne, Australia: Senior Research Fellow
May 2011 – Oct. 2012	RMIT University, Centre for Design, Melbourne, Australia: Senior Research Fellow
Sept. 2010 – April 2011	University of Melbourne, VCCCAR, Melbourne, Australia: Honorary Visiting Research Fellow

March 2003 – Jan. 2011	Province of Groningen, Department of Environmental and Spatial policy, Groningen, the Netherlands: Manager Strategy and Regional Planning & Program Manager Climate Adaptation and Regional Planning
Jan. 2000- Feb. 2003	Municipality of Almere, Department of Urban development, Almere, the Netherlands: project manager Almere Poort
June 1996 – Dec. 1999	BRO, Consultancy for spatial planning and design, Vught, the Netherlands: Project leader Sustainable Urban Development and manager Cluster Sustainable Design
May 1995 - June 1996	Municipality of Rotterdam, Department of Engineering for the Environment, Rotterdam, the Netherlands: Advisor and project leader Environment and Spatial Planning
Dec. 1991 – April 1995	Municipality of Breda, Department of Environmental Affairs, Breda, the Netherlands: Spatial planner, landscape architect & advisor integrated environmental policy
Sept. 1990 – Nov. 1991	Province of Noord-Brabant, Department of Design and Management of Urban Areas, Den Bosch, the Netherlands: alternative military duty