

Elena Bakhanova

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Bogotá, Colombia

[LinkedIn profile](#)

[Google Scholar profile](#)

Expertise & Interests:

Sustainable development

Energy transition

Systems thinking

Social learning

Simulation modeling

Participatory modeling

Gamification

EDUCATION

Jan 2019 – Feb 2023

Ph.D. | University of Technology Sydney, Australia

Topic: Gamification of participatory modeling: towards creating a more engaging process for stakeholders

Sep 2011 – June 2013

M.Sc. in System Dynamics, Business Administration | Consortium of

Universities (Erasmus Mundus program): University of Bergen, Radboud

University Nijmegen, New University of Lisbon

Topic: Transition to renewable energy in Portugal: system dynamics perspective

RESEARCH

Apr – Dec 2022

Researcher (postdoc) | University of Twente, The Netherlands

Regional Energy Transition as Systemic Integration (RETSI) project

Institutional analysis | Qualitative research | Social learning

Jul – Dec 2021 (part-time)

Research Assistant | University of Technology Sydney, Australia

Community Energy Project | Workshops with Australian farming community

Jan 2014 – Nov 2015

Junior Research Fellow | Moscow State University, Russia

Management Modeling Laboratory | Waste management strategy in Russia

OTHER WORK EXPERIENCE

March 2024 – Present

Short-term Consultant | The World Bank

Waste management and bioplastics market in Southern Asia

Feb – Nov 2023

Consultant – Social Performance & Communities | WSP Australia

Energy & Mining sector

Social impact assessment of renewable energy proposals in Australian REZ

Oct – Dec 2021 (part-time)

Work-Integrated Learning Project Officer | Institute for Interactive Media &

Learning, University of Technology Sydney, Australia

Nov 2020 – Feb 2021 (part-time)

Learner Experience Advisor | Institute for Interactive Media & Learning,

University of Technology Sydney

Jan 2016 – Dec 2018

Senior Specialist in Science-Industry Cooperation | Skolkovo Institute of

Science and Technology (Skoltech), Russia

PUBLICATIONS

Bakhanova, E., Vinke-de Kruijf, J., Wöhler, L. & Arentsen, M. (In review). Agriculture, nature, and energy: understanding institutional factors influencing cross-sector integration in Dutch rural areas

Kenny, D., **Bakhanova, E.**, Hämäläinen, R. & Voinov, A. (2022). Participatory Modelling and Systems Intelligence: A systems-based and transdisciplinary partnership. Socio-Economic Planning Sciences, doi: [10.1016/j.seps.2022.101310](https://doi.org/10.1016/j.seps.2022.101310)

Bakhanova, E., Garcia Marin, J., Raffe, W. & Voinov, A. (2020). Targeting social learning and engagement: What serious games and gamification can offer to participatory modeling. Environmental Modeling & Software, 134, doi: [10.1016/j.envsoft.2020.104846](https://doi.org/10.1016/j.envsoft.2020.104846)

Full list of publications is available in my [Google Scholar](#) profile.

AWARDS & FUNDING

2021: 4TU Resilience Young Fellow, The Netherlands (individual) ([link](#))

2020: UTS Techcelerator: \$13K award for prototype development (in team) ([link](#))

2019: UTS: International Research Scholarship for PhD (individual)

2018: Blaise Pascal University, France: Research training 'Integrated Assessment Models' (individual)

2017: US Congress: Professional training 'Open World' – topic 'Think Tanks' (individual)

ACADEMIC SERVICE & OTHER

- **Reviewer:** Ecology & Society, Simulation & Gaming Journal, Journal for Cleaner Production, Field research, IEEE SeGAH'22, Interactive Learning Environments
- **Coordinator:** Participatory Modeling Community of Practice (2021) ([link](#))
- **Media:** The Fifth Estate, Australia ([link](#))
- **Volunteering:** lecturing and running interactive workshops related to sustainability at NGOs Open School for Sustainable Development and Centre for Resource Saving, Russia

RECOMMENDATIONS

- **Dr. Joanne Vinke-De Kruijf**, Associate Professor, Department of Civil Engineering and Management, University of Twente, The Netherlands; email: joanne.vinke@utwente.nl
- **Dr. Alexey Voinov**, Professor, Department of Civil Engineering and Management, University of Twente, The Netherlands; email: aavoinov@gmail.com
- **Dr. Sondoss Elsawah**, Associate Professor, Acting Director at Capability Systems Centre, UNSW Canberra, Australia; email: s.elsawah@adfa.edu.au
- **Dr. Jaime Garcia**, Senior Lecturer, Deputy Director (T&L Engagement) at the Faculty of Engineering and IT, University of Technology Sydney, Australia; email: jaime.garcia@uts.edu.au