



# Edyta Kiedrzyńska

ASSOCIATE PROFESSOR & DEPUTY DIRECTOR – EUROPEAN REGIONAL CENTRE FOR ECOHYDROLOGY ·

ASSISTANT PROFESSOR – UNIVERSITY OF LODZ

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## Currently held positions

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### European Regional Centre for Ecohydrology, Polish Academy of Sciences

Lodz

ASSOCIATE PROFESSOR & DEPUTY DIRECTOR

### Department of UNESCO Ecohydrology and Applied Ecology, Faculty of Biology and Environmental

Protection

University of Lodz

ASSISTANT PROFESSOR

## Scientific profile and collaborations

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Dr. hab. Edyta Kiedrzyńska, Prof., is an ecohydrologist and scientist, serving as the Deputy Director of the European Regional Centre for Ecohydrology, Polish Academy of Sciences (ERCE PAS). She is also an Assistant Professor at the UNESCO Chair of Ecohydrology and Applied Ecology, Faculty of Biology and Environmental Protection, University of Łódź.

Her research interests focus on:

- Ecohydrology, biotechnologies, and nature-based solutions
- Rivers and catchment-scale processes
- Water and wastewater quality
- Transport and transformation of environmental pollutants, including pharmaceuticals, microplastics, heavy metals, polycyclic aromatic hydrocarbons (PAHs), microbiological contaminants, and biogenic compounds (phosphorus, nitrogen).

She is the Head of the Laboratory for Environmental Micropollutants and Microplastics at ERCE PAS, which is part of the UNESCO Ecohydrology Labs Network. The laboratory conducts interdisciplinary research on physical, chemical, and microbiological contamination of the environment.

Dr. Kiedrzyńska is a member of the Polish Committee for UNESCO and serves on the Editorial Boards of Scientific Reports and Ecohydrology & Hydrobiology. As an author and reviewer, she has contributed to numerous scientific publications and research projects.

She is actively involved in academic teaching and supervision, sharing her expertise with students at the University of Łódź and in international study programs. She has successfully supervised numerous undergraduate and master's students, fostering their scientific and professional development.

## Selected publications

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2021 *The enhancement of valley water retentiveness in climate change conditions* [\[link\]](#)

2025 *An analysis of catchment factors associated with heavy metal export into the Baltic Sea and nature-based solutions aimed at its limitation* [\[link\]](#)

2025 *Global dissemination of *Klebsiella pneumoniae* in surface waters: Genomic insights into drug resistance, virulence, and clinical relevance* [\[link\]](#)

## Research grants

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**Principal Investigator:** 10 grants: KBN, Ministry, NCN, FNP, NAWA, NCBiR

**Project Manager:** 8 grants: NCBiR, 6th Framework Programme, Water 4 All

## Obtained patents

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2 patents given by Polish Patent Office

## International research stays

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**USA**, University of Notre Dame in South Bend, and Ohio State University in Columbus, in the team of Prof. Bill Mitsch

**France**, University of Tours in Tours, in the team of Prof. Jean Pierre Berton