Timothy Tiggeloven

Work experience

Multi-Hazard Risk Researcher and Specialist | CMCC Foundation - Euro-Mediterranean Center on Climate Change | 01/09/2025 - Current | Italy

Guest Researcher | Vrije Universiteit Amsterdam | 01/09/2025 - Current | Amsterdam, Netherlands

GLOFRIS model

MYRIAD-EU

Postdoctoral researcher | Vrije Universiteit Amsterdam | 01/09/2021 - 31/08/2025 | Amsterdam, Netherlands

Project manager for MYRIAD-EU

Teaching in Hydrology Master including fieldworks

PhD Researcher in Coastal Flood Risk | Vrije Universiteit Amsterdam | 01/09/2017 - 31/08/2021 | Amsterdam, Netherlands

Chair of VU PhD council

GLOFRIS model

Education & Training

Doctor of Philosophy | Vrije Universiteit Amsterdam

Field of study Earth sciences , Environmental sciences

Language Skills

Mother tongue(s): **Dutch**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	C2	C2	C2	C2	C2

Skills

Python | Machine learning | Geospatial data

Publications

Global-scale benefit–cost analysis of coastal flood adaptation to different flood risk drivers

Tiggeloven, T., De Moel, H., Winsemius, H. C., Eilander, D., Erkens, G., ... & Ward, P. J. (2020). Global-scale benefit–cost analysis of coastal flood adaptation to different flood risk drivers using structural measures. NHESS, 20(4), 1025-1044.

https://nhess.copernicus.org/articles/20/1025/2020/nhess-20-1025-2020.html

Exploring deep learning capabilities for surge predictions in coastal areas

Tiggeloven, T., Couasnon, A., van Straaten, C., Muis, S., & Ward, P. J. (2021). Exploring deep learning capabilities

for surge predictions in coastal areas. Scientific reports, 11(1), 17224.

https://www.nature.com/articles/s41598-021-96674-0

The benefits of coastal adaptation through conservation of foreshore vegetation

Tiggeloven, T., de Moel, H., van Zelst, V. T., van Wesenbeeck, B. K., Winsemius, H. C., ... & Ward, P. J. (2022). The benefits of coastal adaptation through conservation of foreshore vegetation. Journal of Flood Risk Management, 15(3), e12790.

https://onlinelibrary.wiley.com/doi/full/10.1111/jfr3.12790

Global Approach for Mapping Multi-Hazard Susceptibility Using Deep Learning: A Case Study in Japan

Tiggeloven, T., Ferrario, D., Claassen, J., Jäger, W., Shapovalova, Y., Koyama, M., de Ruiter, M., ... Torresan, S., Ward, P. J. A (2025) Global Approach for Mapping Multi-Hazard Susceptibility Using Deep Learning: A Case Study in Japan. AIES 4. (4).

https://doi.org/10.1175/AIES-D-25-0039.1

Last updated: September 2025