**Théo Raduszynski**

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Experience

**WOTA**Lead Machine Learning Engineer

Tokyo, Japan  
2023 – present

* Architect ML systems and cloud infrastructure for autonomous water recycling: design edge/cloud distribution and technical roadmap
* Developed bayesian calibration model reducing water quality sensor costs
* Built ML-integrated control systems enabling real-time optimal decisions
* Deploy statistical models for sensor real-time water quality prediction

Education

**The University of Tokyo**Master’s degree – Civil engineer

Tokyo, Japan  
2021 – 2023

* research at Urban Disaster Mitigation laboratory (K. Meguro)
* geospatial disaster and vulnerability analysis using GIS and open data

Projects and research

**Measure and spatial identification of social vulnerability, exposure and risk to natural hazards in Japan using open data.**Raduszynski, T., Numada, M. [Sci Rep 13, 664](https://doi.org/10.1038/s41598-023-27831-w) (2023).20 citations as of June 2025.

Skills, languages and technologies

**Engineering:** Python, R, SQL, GIS, Docker, Git, CI/CD, unit testing, code review **ML/statistics:** PyMC, NumPyro, PyTorch, bayesian modeling, time series analysis **Cloud & MLOps:** AWS (IoT Core, Greengrass, Lambda, S3, Athena, ECS, SageMaker), Terraform, model deployment, monitoring **Language**s: English (TOEIC 980/990), Japanese (JLPT N1), French (native)