

# Shuntaro Togo

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## EDUCATION

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*B.S.* Agricultural and Environmental Engineering April 2020 - March 2024  
Kyoto University, Kyoto

*M.S.* Environmental Science and Technology April 2024 - Present  
Kyoto University, Kyoto

- **Coursework:** Hydrology, Numerical analysis, Stochastic differential equations, Dynamical systems
- Graduation thesis and abstract  
([https://github.com/togoshun/Undergraduate/blob/master/grad\\_thesis.pdf](https://github.com/togoshun/Undergraduate/blob/master/grad_thesis.pdf))  
([https://github.com/togoshun/Undergraduate/blob/master/grad\\_abstract.pdf](https://github.com/togoshun/Undergraduate/blob/master/grad_abstract.pdf))

## RESEARCH EXPERIENCE

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**Mathematical analyses of subsurface water flows** April 2023 - Present  
Investigating the analytical solution of the Boussinesq groundwater equation, which governs the groundwater movement.

**Stochastic processes for a porous media equation** April 2023 - Present  
Applying stochastic processes to the Boussinesq groundwater equation in the same way as the stochastic porous media equation.

## CONFERENCE PARTICIPATIONS

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- Shuntaro Togo, Koichi Unami: “Porous media equations to visualize subsurface water flows”  
Fieldnet Lounge Symposium Visualizing Diverse Socio-Environmental Systems: Toward  
Robustness Beyond Resilience, 2023.  
(abstract: [https://fieldnet-aa.jp/lounge/.assets/20231203\\_abstract.pdf](https://fieldnet-aa.jp/lounge/.assets/20231203_abstract.pdf))

## ADDITIONAL EXPERIENCE

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**Teaching assistant** April 2024 - Present  
Helped discussions, experiments, and fieldwork in the undergraduate class, “Laboratory Course in Hydraulics.”

**Research assistant** August 2024 - Present  
Research assistance relating to ‘Kyoto University School of Platforms’ (KUSP) to make a platform analyzing information from the real world and sharing it with society.  
(KUSP: <https://www.platforms.ceppings.kyoto-u.ac.jp/en/>)

## TECHNOLOGIES

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### Programming languages

C++, C, Python, bash