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#### Education

Mar 2021 **Doctor of Science**, Department of Mathematical and Computing Science, Tokyo Institute of Technology

Supervisor: Yuji Terashima and Sakie Suzuki

Mar 2018 Master of Science, Department of Mathematical and Computing Science, Tokyo Institute of Technology

Supervisor: Yuji Terashima

Mar 2016 **Bachelor of Science**, Department of Information Science, Tokyo Institute of Technology

## **Fellowships**

2021-present JSPS Research Fellow (PD), Japan Society for the Promotion of Sciences 2018–2021 JSPS Research Fellow (DC1), Japan Society for the Promotion of Sciences

## **Preprints**

Remarks on nahm sums for symmetrizable matrices. arXiv preprint arXiv:2305.02267, 2023

Periodic y-systems and nahm sums: the rank 2 case. arXiv preprint arXiv:2301.13239, 2023.

q-Painlevé equations on cluster Poisson varieties via toric geometry. *arXiv preprint arXiv:2008.11219*, 2020.

## **Publications**

Difference equations arising from cluster algebras. *J. Algebraic Combin.*, 54(1):295-351, 2021.

Exponents associated with Y-systems and their relationship with q-series. SIGMA Symmetry Integrability Geom. Methods Appl., 16:028, 42 pages, 2020.

Jacobian matrices of Y-seed mutations, Advances in Applied Mathematics, 115:101987, 2020.

Quiver mutation sequences and q-binomial identities, joint work with Akishi Kato and Yuji Terashima, International Mathematics Research Notices, 2018(23):7335–7358, 2018.