

Yuma Mizuno

Department of Mathematics and Informatics, Faculty of Science
Chiba University
1-33, Yayoicho, Inage-ku, Chiba-shi, Chiba, 263-8522 Japan
✉ ymizuno@math.s.chiba-u.ac.jp

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*

Teaching

- Fall 2021 Tokyo University of Agriculture and Technology, Calculus

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.