Ryubu Hosoki

Ph.D. student

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Research Interests Distributed Deep Learning, Model Parallelism, Pipeline Parallelism, Tensor Parallelism, 3D Hybrid Parallelism, Auto-partitioning of DNN Model

Education

2023.4 -	**Ph.D. Mathematical and Computing Science, Tokyo Institute of Technology, Tokyo, Japan.**
2021.4 - 2023.3	**Master of Science, Tokyo Institute of Technology, Tokyo, Japan.** GPA: 3.43/4.50
2017.4 - 2021.3	**Bachelor of Science, Tokyo Institute of Technology, Tokyo, Japan.** GPA: 2.88/4.50

Employment History

2023.06 - 2023.08	The French Alternative Energies and Atomic Energy Commission (CEA), Saclay, Research Internship.
2023.04 -	Tokyo Institute of Technology, Global Scientific Information and Computing Center, Research Assistant.
2023.04 -	Institute of Physical and Chemical Research (RIKEN), Kobe, Junior Research Associate (declined).
2021.07 - 2023.03	National Institute of Advanced Industrial Science and Technology (AIST), Tokyo, Research Assistant.

Scholarships

2023.04 -	Cross the border! Tokyo Tech Pioneering Doctoral Research Project, Covering living expenses.
2023.04 -	Tokyo Tech Tsubame Scholarship for Doctoral Students, Covering living expenses (declined).

Teaching

2023	Computer Systems, Tokyo Institute of Technology, Math. and Comp. Science, TA.

Publications

Conference Proceedings

1. **Ryubu Hosoki**, Toshio Endo, Takahiro Hirofuchi, Tsutmu Ikegami. "AshPipe: Asynchronous Hybrid Pipeline Parallel for DNN Training." Proceedings of the International Conference on High Performance Computing in Asia-Pacific Region (2024). DOI: 10.1145/3635035.3635045

Domestic Workshop (Unrefereed)

1. IPSJ SIG Technical Report, 2021-HPC-180, No.9, online, July 2021. (First author)

2. IPSJ SIG Technical Report, 2022-HPC-185, No.16, Shimonoseki, July 2022. (First author)

Skills

Languages	Japanese (native), English (intermediate)
Coding	LaTeX, C/C++, Python, Scala, Ruby, Linux