

# Yusuke Izawa, Ph.D. student

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🐦 @yusuke\_izawa

🌐 <https://3tty0n.github.io>



## Education

- 2020-now 📖 **Ph.D., Tokyo Institute of Technology.**
- 2018-2020 📖 **M.Sc. Mathematical and Computing, Tokyo Institute of Technology.**  
Thesis title: *Applying ant algorithms in automatic design of novel magic charms.*
- 2014-2018 📖 **M.Sc. Mathematical and Computing, Tokyo Institute of Technology.**  
Thesis title: *Applying ant algorithms in automatic design of novel magic charms.*

## Miscellaneous Experience

### Grants

- 2021 📖 **Research Fellowship for Young Scientists (JSPS DC2).** Fellowship from the Japan Society for the Promotion of Science (JSPS), covering living expenses. Research expense covered by KAKENHI.
- 2020 📖 **JST Strategic Basic Research Programs ACT-X.** Research expense covered by Japan Science and Technology Agency (JST).
- 2019 📖 **Travel Grants by Information Science Incentive Fund.** By dept. of mathematical and computing science, Tokyo Tech.

### Awards

- 📖 **2nd Place, Graduate Category, ACM Student Research Competition, Association for Computing Machinery. [\*]**

### Scholarships

- 2020 📖 **Tokyo Tech Tsubame Scholarship for Doctoral Students.** Covering living expenses.
- 2014 📖 **Scholarship by the Showa Scholarship Foundation.** Covering living expenses by Showa Scholarship Foundation.

## Publications

### Peer-reviewed

- 1 Izawa, Y., & Masuhara, H. (2020a). Amalgamating different jit compilations in a meta-tracing jit compiler framework. In *Proceedings of the 16th acm sigplan international symposium on dynamic languages* (pp. 1–15). doi:10.1145/3426422.3426977
- 2 Izawa, Y. (2019). Baccaml: The meta-hybrid just-in-time compiler. In *Proceedings of the conference companion of the 3rd international conference on art, science, and engineering of programming*. doi:10.1145/3328433.3328466
- 3 Izawa, Y., Masuhara, H., & Aotani, T. (2019). Extending a meta-tracing compiler to mix method and tracing compilation. In *Proceedings of the conference companion of the 3rd international conference on art, science, and engineering of programming*. doi:10.1145/3328433.3328439

### Non Peer-reviewed

- 1 Izawa, Y., Masuhara, H., Aotani, T., & Cong, Y. (2019). *A stack hybridization for meta-hybrid just-in-time compilation*. nonrefereed, Shibaura Institute of Technology, Tokyo, Japan.

## Talks

### Invited

- 1 Izawa, Y., & Masuhara, H. (2021, March 9). *Amalgamating different JIT compilations in a meta-tracing JIT compiler framework*. Reproduction of the DLS'20 talk at JSSST Programming and Programming Languages Workshop. Retrieved from <https://jsst-ppl.org/workshop/2021/>

### Oral and Poster Sessions

- 1 Izawa, Y., Masuhara, H., & Cong, Y. (2021). An interpreter design for supporting different JIT compilations in rpython framework. The 23rd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from <https://easychair.org/smart-program/PPL2021/>
- 2 Takahashi, S., Izawa, Y., Masuhara, H., & Cong, Y. (2021). 汎言語的ライブプログラミング環境のためのデータ構造解析手法. The 23rd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from <https://easychair.org/smart-program/PPL2021/>
- 3 Izawa, Y., & Masuhara, H. (2020b). Making different jit compilations dancing to the same tune, acting in the meta-level. The 22nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from <https://easychair.org/smart-program/PPL2020/>
- 4 Masuhara, H., Takahashi, S., Izawa, Y., & Cong, Y. (2020). Toward a multi-language and multi-environment framework for live programming. Talk at the 2020 Workshop on Live Programming (colocated with SPLASH 2020). **Peer-reviewed**. Retrieved from <https://2020.splashcon.org/home/live-2020>
- 5 Takahashi, S., Izawa, Y., Masuhara, H., & Cong, Y. (2020). ライブプログラミング環境は多言語化/多開発環境化の夢を見るか. The 37th JSSST Annual Conference. Japan Society for Software Science and Technology. Poster Presentation. Retrieved from <https://jsst2020.wordpress.com/program/>
- 6 Izawa, Y., Masuhara, H., & Aotani, T. (2018). メタ混合 JIT コンパイラの提案. The 20nd JSSST Workshop on Programming and Programming Languages. Poster Presentation. Retrieved from <https://jsst-ppl.org/workshop/2018/program.html>

## Employment History

|                 |  |
|-----------------|--|
| 2020.11-2023.3  | 📌 Tokyo Institute of Technology, Dept. of Math. and Comp., Research Assistant. |
| 2018.6 – 2019.2 | 📌 Recruit Marketing Partners, Inc., Software Engineer, Self-employment.        |
| 2018.8          | 📌 Cookpad, Inc., Software Engineer, Internship. ( <b>Won 2nd Place</b> )       |
| 2017.4 – 2018.3 | 📌 FOLIO, Inc., Software Engineer, Internship.                                  |
| 2016.8 – 2017.3 | 📌 DOWANGO, Inc., Software Engineer, Internship.                                |
| 2016.1 – 2016.6 | 📌 Summaly, Inc., Software Engineer, Internship                                 |

## Skills

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|-----------|--|
| Languages | 📌 English (fluent), Japanese (native)  |
| Coding    | 📌 OCaml (S), Scala (S), Python (S), C (A), Java (A), Ruby (A), Shell (A), R (B), SQL (C), $\text{\LaTeX}$ (SS) |
| Misc.     | 📌 Academic research, teaching, training, consultation, $\text{\LaTeX}$ typesetting and publishing.             |