

Yuka Takahashi

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<https://yamaguchi1024.github.io/>

EDUCATION

The University of Tokyo

Tokyo, Japan

Bachelor of Science in Information Science. Major GPA: 3.98/4.0

April 2015 – March 2020

Advisor: Prof. Takeo Igarashi

SELECTED PUBLICATIONS AND TALKS

- **PaintersView: Automatic Suggestion of Optimal Viewpoints for 3D Texture Painting**
Yuka Takahashi, Tsukasa Fukusato, Takeo Igarashi
In *ACM SIGGRAPH Asia* 2019 technical brief (Overall Acceptance Rate 20%).
- **Migrating Large Codebases to C++ Modules**
Yuka Takahashi, Oksana Shadura, Vassil Vassilev
In *Journal Proceedings of 19th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT)* 2019.
- **Stitch: An Interactive Design System for Hand-Sewn Embroidery**
Yuka Takahashi, Tsukasa Fukusato
In *ACM SIGGRAPH* 2018 poster (Overall Acceptance Rate 21%).
ACM SIGGRAPH Student Research Competition 3rd Place Award.
- **Optimizing Frameworks' Performance Using C++ Modules-Aware ROOT**
Yuka Takahashi, Vasil Georgiev Vasilev, Raphael Isemann
In *Journal Proceedings of 23rd International Conference on Computing in High Energy and Nuclear Physics (CHEP)* 2018.
- **A Better Shell Command-line Autocompletion for Clang**
Yuka Takahashi
In *LLVM developer's meeting* 2017 Lightning Talk.

EXPERIENCE

UC Berkeley

Berkeley, CA

Research Internship Student

August 2019 – September 2019

Worked on Halide Scheduling Tool under a supervision of Prof. Jonathan Ragan-Kelley.

CERN

Geneva, Switzerland

Research and Development Intern

March 2018 – February 2019

Worked on Cling C++ interpreter and Clang C++ Modules in ROOT team.

Google Summer of Code

Remote

GSoC Student

April 2017 – August 2017

Worked on a dynamic shell autocompletion project in LLVM/Clang organization.

TEACHING AND MENTORING EXPERIENCE

Google Summer of Code

Remote

Mentor

April 2019 – August 2019

Advised an undergraduate student on Global Modules Index project at HEP software foundation.

Security Mini-Camp

Japan

Lecturer

September 2019

Honored to give a compiler lecture to young students in the government-funded security lecturing project.

INVOLVED PROJECTS

- **ROOT** An open-source data analysis framework widely used in High Energy Physics field. Committer and an everyday contributor since March 2018. Maintaining Cling C++ interpreter and developing ROOT Runtime C++ Modules.
- **LLVM/Clang** An open-source compiler infrastructure. Committer and a regular contributor since 2017. Maintaining autocompletion feature and options in Clang Driver and developing C++ Modules in Clang ASTReader.

GRANTS

- **Funai Overseas Scholarship** Fellowship for Ph.D. study in the U.S. from September 2020 to August 2022.
- **Research Internship Grant** *The university of Tokyo Study and Visit Abroad Program (SVAP)*, 2019.
- **Travel Grant** *The university of Tokyo Computer Science Alliance*, 2019.
- **Travel Grant** *LLVM organization*, 2017.