Yuichi Okugawa

PhD student in Physics at University Paris-Saclay and Tohoku University

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EXPERIENCE

Cloud Support Engineer   April 2024 - Present
Amazon Web Services, Japan
- Provides technical support and troubleshooting for complex cloud systems.

EDUCATION

University Paris-Saclay, Tohoku University, France and Japan
Joint degree for PhD in Physics   *Expected:* March 2024
- *Advisors:* Roman Pöschl, PhD and Tomoyuki Sanuki, PhD

Tohoku University, Sendai, Japan
Master of Science in Physics   *Obtained:* March 2020
- *Advisors:* Hitoshi Yamamoto, PhD and Roman Pöschl, PhD

State University of New York at Buffalo, Buffalo, NY
Bachelor of Science in Physics   *Obtained:* June 2017
- *Advisors:* Avto Kharchilava, Ph.D and Serdar Gozpinar, Ph.D

Minor in Mathematics   *Obtained:* June 2017

RESEARCH

Internship   August 2018 - September 2018
Laboratoire de l'accélérateur linéaire (LAL), Orsay, France
- Researched on search for top pair production at International Linear Collider (ILC) at 500 GeV

Research Assistant   May 2016 - August 2016
Fermi National Accelerator Laboratory (Fermilab), Batavia, IL
- Participated in testing for phase I HDI Circuits of CMS Forward Pixel Detector Upgrade.
- Examined HDIs in the cleanroom to see if there is any damage or residue on them before they are sent to CERN.
- Calculated the cross sections and jet reconstruction efficiencies of the Higgs boson decay into b and $\bar{b}$.
- Attended CMS group meeting to report and discuss our progress on HDI examination.

Research Assistant   December 2015 - June 2017
Department of Physics, State University of New York at Buffalo
Supervisor: Avto Kharchilava, Ph.D
- Worked for phase I High Density Interconnect (HDI) Circuits for the CMS Forward Pixel Detector Upgrade.

Independent Study   September 2015 - January 2016
Department of Physics, State University of New York at Buffalo
Supervisor: Serdar Gozpinar, Ph.D
- Measured the detector efficiency, flux of muon from cosmic rays, and the lifetime of the muon with a scintillator detector.

PRESEN-
TATION

LCWS 2021, *Presentation*   March 2021
- Analysis towards $e^+e^- \to s\bar{s}$

LCWS 2019, *Presentation*   October 2019
- Measurement of the $t\bar{t}$ cross section at the Linear Collider

Lepton Photon 2019, *Poster*   August 2019
- Production and electroweak couplings of 3rd generation quarks at the ILC

LCWS 2018, *Presentation*   October 2018
- Semi-leptonic Top Decay Study at International Linear Collider

High Energy Physics School of 2018, *Presentation*   May 2018
- Vertex Charge Measurement

The Celebration of Student Academic Excellence, *Poster*   April 2016
- Study of the Higgs Boson in ZH associated production.

TECHNOLOGY
SKILLS

Programming Languages: C, C++, Python, Bash, JavaScript
Webpage: HTML, CSS, PHP, Wordpress
Others: Git, MS Office, VS Code, Latex, Tableau, Salesforce