

Syamil Muharror Ahsanul Husna

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EDUCATION

Master of Science in Chemistry Expected Graduation: Sep. 2025

Tohoku University, Sendai, Japan

The International Graduate Program for Advanced Science (IGPAS) Program. Graduate School of Science, Department of Chemistry. (PI: Kiyoto Kamagata). US GPA: 4.00/4.00

Bachelor of Science in Chemistry

Oct. 2019 – Sep. 2023

Tohoku University, Sendai, Japan

Advanced Molecular Chemistry (AMC) Program. School of Science, Department of Chemistry.

Undergraduate thesis: Elucidating fusion dynamics of FUS droplets using optical tweezers and fluorescence microscopy. (PI: Kiyoto Kamagata). US GPA: 3.50/4.00

RESEARCH EXPERIENCES

Dec. 2021 – Sep. 2023 **Undergraduate Research**

Takahashi Laboratory, Tohoku University, Sendai, Japan

Single molecular study of biomolecular condensates of DNA-binding protein such as p53 and FUS by using optical tweezers. Kickstarted the project by building the optical tweezers and created experiment protocols to elucidate the coalescence process of target protein droplets. The data analysis was done by developing Python algorithm along with scripts for the image processing software ImageJ.

May – Sep. 2021

Nagatsugi Laboratory, Tohoku University, Sendai, Japan

Development of unnatural base pairs with selective and stable base pairing. Performed 30 organic chemistry synthesis to test new reaction schemes to obtain two new UBPs under various conditions, including anhydrous, oxygen-sensitive, and dealt with organometallic reagents and hazards (especially Sonogashira reaction).

HONORS & GRANTS

Nov. 2023

Student Presentation Award

The 61st Annual Meeting of the Biophysical Society of Japan in Nagoya, Japan.

Oct. 2023 – Mar. 2025

MEXT (SGU) Scholarship

Recipient of government annual scholarship for master's covering tuition, entrance fee, and living stipend.

Oct. 2019 – Sep. 2023

MEXT Scholarship for Undergraduates

Recipient of the four years undergraduate government scholarship selected through competitive university entrance screening that covers the tuition, entrance fee, living stipend, and a round-trip plane ticket.

ORAL PRESENTATION

Nov. 2023

Syamil MA Husna, Atsumi Hando, Saori Kanbayashi, Kiyoto Kamagata, "Elucidating fusion dynamics of FUS droplets using optical tweezers and fluorescence microscopy. The 61st Annual Meeting of the Biophysical Society of Japan in Nagoya, Japan.

TEACHING EXPERIENCES

- Jul. 2022 – Jan. 2024 **English Student Supporter | Miyagi Sendai Daisan High School**
Assisting students in improving their communication and research presentation skills in English.
- Apr. 2021 – Apr. 2022 **Chemistry Tutor Volunteer (Remote) | Ajak Gerak**
Taught high school level chemistry in Indonesia.

LEADERSHIP POSITIONS

- Apr. 2023 – Apr. 2024 **President | Tohoku University Foreign Student Association (TUFSA) | Sendai, Japan**
Led the organizational reform of the international student association which had been inactive for three years due to the pandemic by rebuilding it from the ground up. Responsibilities include managing events, advertising, and contacting sponsors.
- Jun. 2023 – Nov. 2023 **Leader | Tohoku University International Festival (TUIF) | Sendai, Japan**
Led and coordinated the committee for the biggest international festival in Tohoku region, sold out 1000 tickets to 1500 participants. Responsible for managing the whole committee to bring success to the festival.
- Jul. 2021 – Jul. 2022 **Internal Affairs Div. Leader | Indonesian Student Association in Sendai (PPI Sendai) | Sendai, Japan**
Organize bimonthly events for Indonesian students living in Sendai.

WORK EXPERIENCES

- Apr. 2023 – Present **Administrative Assistant | GLC, Tohoku University | Sendai, Japan**
Part-time staff at the Global Learning Center in Tohoku University. Trilingual staff supporting international students adapting to life in Sendai.
- Oct. 2021 – Present **Quality Assurance Specialist | ASA Digital | Sendai, Japan**
Test website functionality, identify issues and collaborate with the development team to resolve them. Developed automation codes using Selenium (Python) to increase work efficiency. (Commission based)

SKILLS & TECHNIQUES

Programming language:	Python	Machine/Software:	Fluorescent microscopy
	Selenium (Python)		Confocal microscopy
	R (Programming Language)		DIC Microscopy
			Optical tweezers
Laboratory skills:	Organic synthesis		Igor Pro
	Cell experiments		ChemOffice
	Protein experiments		CAS-SciFinder
	Single-molecule experiments		Adobe Illustrator

LANGUAGES

English (IELTS Band 8.0), Japanese (JLPT N2), and Indonesian (Native)