

**World Center of Education and Research for Trans-disciplinary Flow
Dynamics
International Internship Program**

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Research topic: Experimental investigation of flame dynamic in microchannels.

Supervisor: Professor Kaoru Maruta, Institute of Fluid Science, Energy Dynamics laboratory.

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My research topic in Institute of Fluid Science (IFS) is to investigate of flame stabilization in a counterflow system. At first, I looked over what investigate all the students in the lab. Then I studied the available experimental equipment in the lab. After that, I have discussed with the staff of the laboratory experiment that I want to investigate. Thus was created an experimental setup.

Before that I worked mainly by numerical simulation of combustion processes in microsystems, and had little experience in conducting experiments on combustion. I have received invaluable experience in conducting experiments in micro-combustion. Now I hope that I can apply the experience gained in conducting experiments in Russia. I got a very good experimental data, and now plan to investigate numerically this system and prepare an article

I used to present my work in the weekly seminar of Maruta lab. I think that weekly seminar is essential to keep the students update and to exchange the ideas among the students and professors.

My stay at I.F.S. Sendai was an exciting and valuable opportunity to broaden my knowledge about combustion and exchange ideas with other researchers. I learnt a lot from the members of the Maruta lab about provided experiment. I was impressed by the high level of teamwork between the lab members.

I spent most of his time in the lab, but in the meantime also visited the most beautiful places in the city of Sendai. I enjoyed learning a little about Japanese culture and history during my short stay. I would like to return in the future to explore these further more if the time permit.

These internship programs are very good opportunity for all foreign students to improve their scientific knowledge and to exchange their experience with Japanese students. Also, from cultural viewpoint, both foreign and Japanese students can learn many things from each other. I hope such programs continue in future and I wish I can visit Japan again.