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

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Research title: A study of supersonic combustion and supersonic mixing using new mixers
in supersonic combustor

Supervisor: Prof. Goro Masuya

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With the support of Institute of Fluid Science (IFS), I have conducted my research during the GCOE program. My research is on the development of the mixing device for supersonic combustion and mixing. It is difficult to understand the characteristics of the experimental results because the mixing model is first developed and introduced in the world. However, with the help of a professor G. Masuya, a professor K. Takita, an assistant T. Kouchi, and students in the laboratory, I could successfully conduct the experiments; as a result, within a short time, I could write some papers following below:

Journal papers

Conference papers

Surely, I did not spend my all time only studying and researching during the internship program. Japanese students or friends kindly showed me various beautiful places, such as Matsushima, Mt. Zao, the spring pool, etc. With them, I could have beautiful memories in Sendai. Amazingly, Japanese students in Tohoku University liked drinking liquors and enjoying together, looked like Korean students. I heard that Japanese students had individualism before staying in Sendai, so it was interesting shock to me. Furthermore, the life style of students in laboratory was similar with that in
Seoul National University; i.e., they were studying and researching hard in everyday. Therefore, I think the Japanese students, particularly in the Masuya-Takita laboratory in Tohoku University, are very diligent, clever and kind friends; in future, if I have a chance, I would like to continue to work with them.