

# YIZHAO GUAN

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Age: 22

Nationality: Chinese

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## EDUCATION

### **Tohoku University**

*October 2015 - August 2019(Expected)*

- Mechanical and Aerospace Engineering (IMAC Program, an international course taught in English).

### **High School Affiliated to China Fudan University**

*September 2012 - August 2015*

## RESEARCH EXPERIENCE

(Work with professors and doctors as several international groups from British, India, Indonesia, Thai, etc.)

### Fluid Dynamic (Ohnishi Lab)

*Fall Semester 2016*

- Presentation of Lift improvement in supersonic flow by suppressing flow separation with repeatedly applied laser beam.
- Simulation of the air flow around the wing under applied laser beam and analyses lift improvement.

### Fine Nano- Mechanics (Miura / Suzuki lab)

*Academic year 2017*

- Presentations in lab as below:
  - Highly-Sensitive Graphene Nano-Ribbon-Base Strain Sensor.
  - Surface Functionalized Graphene Biosensor on Sapphire for Cancer Cell Detection.
  - Presentation skill up and learning about Carbon-Nano-Tubes and graphene.

## CONFERENCE

Japan Society of Mechanical Engineers (JSME) Tohoku

*September 2018*

Presentation topic: First Principle Calculation on the electrical Conductivity of Dumbbell-shape Graphene Nano-Ribbon.

## TEAM WORKS

### **Team based Research**

*Fall semester 2016*

- We proposed a line navigation robot and realized this idea using Robolab. I participated in the assembling and programming.

### **Professional development Consortium for**

### **Computational Materials Scientists (PCoMS)**

*September 2018*

- In this seminar, the topic "Computer based DFT (Density functional theory) simulation for corrosion resistance of aluminum" was proposed by our team. I did the final presentation while team members (an assistant professor and a doctor student) combined their ideas.

## PART TIME JOBS

### Convenient store (Ministop Co., Ltd.) staff

*September 2017 - October 2018*

- Be promoted from C level to A level staff in 3 months.

### Freshman tutor

*October 2017 - August 2018*

- Support a new international student from Singapore in his study and daily life.

## SKILLS & INTERESTS

- Technical      Microsoft Office, C Language, Solid works (Design software).
- Language      Native Chinese, Fluent in English and Japanese (JLPT N1 level).
- Interests      Basketball, Taichi (Martial Arts), Badminton, Guitar

## Personal Achievements & Honors

- Finish undergraduate graduation courses in 6th semester (normal 8<sup>th</sup> semester), and start taking graduate school lectures.
- GPA: 3.34/4    Core courses: Obtain AA (GPA=4) in lectures below:
  - Heat Transfer (I,II), Control Engineering (I,II), Quantum Mechanics, Computer seminar.
- Tohoku University Honor President Fellowship.
- The Monbukagakusho Honors Scholarship (JASSO).
- Membership of The Japan Society of Mechanical Engineers.
- Enrolled in "elite training program" a study tour in Zhangye High school, Gansu, China.
- Participated in voluntary support education in Xiji, Ningxia, China.