

YIZHAO GUAN

Gender: Male

Age: 24

Nationality: Chinese

Email: guan.y@nanolab.t.u-tokyo.ac.jp

TEL: (081)080-2385-3768

Add: Room 202, Building 14, ZhongChun Road No. 8888 Shanghai, China.

Personal site: <https://lgyz123.github.io/yizhao/cv/>

EDUCATION

The University of Tokyo

October 2019 - September 2021(Expected)

- Precision Engineering.

Tohoku University

October 2015 - September 2019

- 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

- Simulation of the airflow around the wing under applied laser beam and analyses lift improvement.

Fine Nano- Mechanics (Miura / Suzuki lab)

Academic year 2017

- Ab initio simulation for Graphene

Optical super-resolution (Takahashi / Michihata lab)

Academic year 2019-2021

- FDTD simulation for standing-wave illumination microscopy

CONFERENCES IN JAPAN

Japan Society of Mechanical Engineers (JSME) Tohoku

September 2018

First Principle Calculation on the Electrical Conductivity of Dumbbell-shape Graphene Nano-Ribbon.

Japan Society of Mechanical Engineers Computational Mechanics Division (CMD)

September 2019

Effect of Strain on the Gas Adsorption of Graphene: A First Principle Study

The Japan Society for Precision Engineering (JSPE)

September 2020

The FDTD Analysis of Near-field Response for Microgroove Structure with Standing Wave Illumination

The Japan Society for Precision Engineering (JSPE)

March 2021

The FDTD Analysis of Near-field Response for Microgroove Structure with Standing Wave Illumination (2nd)

-The Relationship of Microgroove Depth and Near-field Phase Response

Optics & Photonics Japan (OPJ)

September 2020

Optical FDTD Analysis of Surface Microstructure for Coherent Structured Illumination Microscopy

INTERNATIONAL CONFERENCES

Manufacturing Science and Engineering Conference (MSEC)

2021

The FDTD Analysis of near-field response for microgroove structure with standing-wave illumination for the realization of coherent structured illumination microscopy (Accepted)

OPTICS & PHOTONICS International Congress (OPIC)

April 2021

The FDTD Analysis for Diffraction Limited Microgroove Structure with standing-wave illumination for the realization of coherent structured illumination microscopy

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 doctoral 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.

MEKO Education Group

March 2020 -

- Application Tutor

Internship

Mazda Motor Corporation

September 2019

- R&D department, Hiroshima, learning the jointing technology development of different metals

SKILLS & INTERESTS

- Technical Microsoft Office, C Language, Python, Matlab, Solid works (Design software), Blender.
- Language Native Chinese, Fluent in English (TOEFL 98 / GRE 324) and Japanese (JLPT N1 level).
- Interests Basketball, Taichi (Martial Arts), Badminton, Guitar

Personal Achievements & Honors

- Graduation GPA: 2.7/3
- Scholarship from Sumitomo Electric Industries Social Contribution Foundation
- Finish undergraduate graduation courses in the 6th semester (normally 8th semester), and start taking graduate school lectures.
- Undergraduation 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.