Yuji Go

School of Engineering, University of Warwick, Coventry, CV4 7AL, United Kingdom. E-Mail: yujig7@gmail.com

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Education:

PhD: University of Warwick | 2023 – 2027 (Expected)

- Fully funded PhD Studentship with **EPSRC CDT in Modelling of Heterogenous Systems**
- Supervised by Prof. Neophytos Neophytou and Prof. Gavin Bell with project: **Complex Electronic Structures in Thermoelectric Materials**

MSci Physics: Imperial College London | 2019 – 2023

- **First Class Honors**: Average of **73.37%**. (Year 3: 75.46%, Year 4: 75.08%)
- **BSc Project:** Simulation of the Detection of Evanescent Scattering of Gold Nanoparticles.
- **MSci Project:** Single-shot Volumetric Photopolymerization of Optical Nanostructures
- **Modules:** Computational Physics, Advanced Classical Physics, Solid State Physics, Concepts in Device Physics, Plasmonics and Metamaterials, Laser Technology, Quantum Theory of Matter, etc.

IB Diploma: UWC South East Asia East Campus (Singapore) | 2017 - 2019

- Final score of **43/45** - Achieved a 7 in HL Mathematics, Physics, Chemistry
- **Extended Essay**: "To what extent can Peltier Devices be applied to sustainable cooling systems?"

Leadership Experience:

Language Director, Imperial College London Japanese Society | Aug. 2020 – June 2021

- Organized and ran the largest language teaching society at Imperial. Set up online learning Teams environment and created teaching manuals. Oversaw 6 classes and taught 2-3 classes every week.

Secretary, Imperial College Table Tennis Society | Aug. 2020 – July 2021

President, Imperial College Table Tennis Society | Aug. 2021 – July 2022

- Created a new automated booking system amidst COVID-19 restrictions.
- Organized social sessions, as well as intramural games and University-Wide Tournaments.
- Managed transportation/accommodation booking and tournament entries for team players.

Work/Research Experiences:

Research Intern, National Institute of Materials Sciences (Japan) | Aug. 2022 – Sept. 2022

- Supervised by Dr. Takagiwa Yoshiki in the Thermoelectric Materials Group
- Fabricated and evaluated the thermoelectric properties of Chimney-Ladder Phase $Ru(Al,Ge)_y$ alloys

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Skills:

Experience with **Python, Fortran** and **MATLAB** for **Analysis and Data Science**

- **Machine Learning/Data Analysis** (pandas, scikit-learn, seaborn):
  - Completed UTokyo Matsuo Lab. Global Consumer Intelligence Course.
  - Runner up for Imperial College Data Science Society AIHack 2022.
- **Image Recognition**: Completed UTokyo Matsuo Lab. Summer School 2021, Image Recognition Course
- **Physics Simulations**:
  - Created a simulation for heat transfer in microprocessor and heatsinks.
  - Created a thermodynamic simulation for hard-sphere collisions in a container.

Proficient with **Microsoft Office** (Word, Excel, and Powerpoint) and **LaTeX**

Interests/Other Skills:

Table Tennis: **Top 4** in the National University Championships (Team)
Top 32 in National University Championships (Individual)
Participated in **European University Games** in 2022 and 2023.

Bilingual with Japanese and English. Can speak conversational Chinese as well.

Piano: ABRSM Grade 8