

黃奕立

I-Li Huang

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Basic Info

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- Master graduate from National Taiwan University, Semiconductor Lab under Prof. Yang-Fang Chen with hands on experience in Random Laser phenomenon and Hyperbolic Metamaterial.
- Practical experimental experience for device integration between 2D Materials and opto-electronic devices from bottom-up material synthesis, device characteristic measurements to computer aided simulation like Ansys Lumerical.
- Open to new possibility and new paradigm shift to embrace every branching of life experience.
- Basic semiconductor industry knowledge from Gate level RTL to Layout LVS, DRC and some physical knowledge device level for MOS. After contending a brief selection to joining the 336 hours IC design bootcamp at the Chang Gung University under Prof. I-Chyn Wey, I become capable of completing undergraduate Full-Custom IC design.

Institutions

2017–2021	MS. in Physics <i>National Taiwan University, Taipei city</i> Focusing on random laser phenomenon research and opto-electronic device development. Acquire the basic apparatus working principle and be qualified to operate on essential functionality over devices such as SEM, AFM, STM(only once), micro-Raman scattering measurement system, CVD, PVD. Thesis: <i>Omnidirectional Optically Pumped Random Lasing Action from Spiral Hyperbolic Metamaterial/Graphene Microstructure</i> Advisors: Yang-Fang Chen .
2016–2017	Military Service _alternative service <i>Jingzhong Elementary School</i> Guard, provide pre- and post-school traffic guidance, after-school care
2011–2016	BS. in Physics. <i>National Tsing Hua University, Hsinchu city</i> Under the program of electrics and photonics I was able to apply to a wide range of variety of course. Advisor: Chang, Tsun-Hsu .
2008–2011	High School <i>Concordia Middle School</i> Graduated 6/250s student. Achieved Gold medal award while participating in the 2nd Taiwan Young-Student Physicists' Tournament in 2011. And made into the training camp for final IYPT contest selection.

Work Experience

2013-2014	Assist Laboratory Setup for the new Surface and Molecular Science Laboratory at Phys. building R019 – Research Assistant <i>National Tsing Hua University</i> To facilitate laboratory construction for R019 and segment STM chamber compartment transferred from Academia Sinica. I work primarily as a contact person between Professor Hoffmann, Gernar , a German native speaker, and school administrative or various other cooperating entities. Procurement paper works including but not limited to Tender opening, Banking wire transfer, Quotations and Invoice collection.
2019-2020	General Physics Laboratory – Teaching Assistant <i>National Taiwan University</i> Full-scale, Instructor level of lab experiment sessions. Construct Syllabus under a general guidance with only lab schedules set by the lead TA. Cowork with Ph.D. student Hsu, Shih-Ying to give a 30-40min lecture to College Freshman for theoretical inspiration, and experimental guidance before 10 assigned experiments. A great time to unveil mathematics expression and sparks light onto the following Applied Mathematics, Statistic courses. Collect 3 reports and renovate final exam sheets. The official instructor of the course is Prof. Yang-Fang Chen

Extra-Curricular Activities

Current projects and other on-going information would be updated at <https://github.com/uzuism/>.

2021	Referendum for reinstatement of the fourth nuclear powerplant – Volunteer <i>Taipei Zoo metro station</i> site volunteer for Issue promotion. Also I held talks concerning Energy and Global Warming issues on app Clubhouse every Saturday night 8pm. from Oct to Dec. 2022. Initiate information exchange with other Mandarin speaking community such as Club_ClimateAvengers, whose member mostly located at USA.
2012-2013	NTHU Physics Badminton Team – Vice Captian <i>National Tsing Hua University</i>

Languages

HUMAN	Mandarin	mother tongue
	English	TOEFL ibt 91pt test taken back at 2011
	Japanese	(N4 N3 level, never taken JLPT though)
MACHINE	C/C++, markup languages \LaTeX . Recently picking up: Verilog, bash (Unix shell).	

Schedule and Future prospect

- Prepare for upcoming entrance exam of another master program under college of EE, CS or EECS, supposedly took place in Feb 2024. Pursue a Ph. D. degree onward if I acquire or to be assigned for a promising sector of topic.
- Or anything, any activities equivalent to the experience and training I could receive by being admitted into an academic school.

Short/Mid term programs in the brew

- Become self-sustaining economically.
- College Open Courses (OCW) taken : Digital System Design, Operating System, Data Structure, Algorithm, Computer Organization/Architecture, Discrete Mathematics, VLSI.
- Conquer Iclab sessions and home works of NCTU which is primarily composed of Data Structure challenges,
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Reference

ADVISOR	Prof. Yang-Fang Chen , Phys. NTU <i>Chair professor</i> +886-2-33665125 – yfchen@phys.ntu.edu.tw
COURSE	Prof. I-Chyn Wey, EE. Chang Gung University <i>Associate Professor</i> +886-3-2118800-5327 – icwey@mail.cgu.edu.tw

Email me with your interests in me and I'll refer you to someone who can vouch for me.