Chia-Wei **Wei**

☺ Wade

About Wade

He's now the SPICE modeling engineer at PSMC. His job involves extracting the device's electrical properties and incorporating them into the model card, which is then provided to customers.

Job Responsibility

SPICE model extraction · WAT data and model target correlation verification · Corner model construction · Monte Carlo simulation · Mismatch model analysis · Noise model analysis

Device Familiarity

LVCMOS · LDMOS · Diode · Capacitor ·

Proficient Tools

HSPICE · MBP · Meqlab · BsimProPlus · Rapheal ·

Areas of specialization

Semiconductor Physics · Devices Modeling · Numerical Calculation

Interests

Simplify complex physical problems and analyze their mechanism analytically or numerically.

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💼 JOB EXPERIENCE

May. 2024 - Current	**SPICE Modeling Engineer**
	Hsinchu · PSMC 📍
	He is dedicated to developing and maintaining the SPICE models for various devices that are essential for analog and digital circuit simulation. Depending on the customer's need, I also perform various device-level analyses to support different applications and ensure the models align with the expected physical characteristics.

⚗ RESEARCH EXPERIENCE

Sep. 2020 - Aug. 2023	**Open Quantum System Research**
	Hsinchu · NTHU 📍
	He focused on the non-trivial topological state that exists in a quantum system interacting with the environment, and analyzes the robustness of the topological state in different circumstances numerically, using Mathematica and Fortran.
May. 2018 - Jun. 2020	**Conventional Superconductor Research**
	Changhua · NCUE 📍
	He calculated the electrical properties by solving the partial differential equation from Landau-Ginzburg theory, and the behavior of the flux of the type-II superconductor with some impurities numerically, using Maple and Python.

📖 TEACHING EXPERIENCE

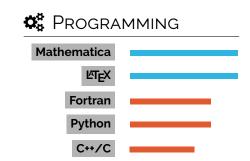| Sep. 2019 – Jun. 2020	**Teaching Assistant of Mathematical Physics**
	Changhua · NCUE 📍
	Mathematical physics problem solving, including linear algebra, partial differential equations, and complex analysis.
Sep. 2019– Jun. 2020	**Teaching Assistant of General Physics**
	Changhua · NCUE 📍
	Reviews the physics concept learning from the course.

🎓 EDUCATION

Sep. 2020 - Jun. 2023	**National Tsing-Hua University (NTHU)**
	M.A. · Hsinchu 🏛
	GPA: 3.49/4.3
Sep. 2016 - Aug. 2020	**National Changhua University of Education (NCUE)**
	B.A. · Chang-Hua 🏛
	GPA: 3.48/4.0

⚙ PROGRAMMING

Mathematica
LᴬTᴇX
Fortran
Python
C++/C

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