







JIHYE BAIK

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EDUCATION

- Oct. 2021 – Present **PhD in Physics, École Normale Supérieure, France**
- Major : Optics and Quantum Devices
- Feb. 2020 – Sep. 2021 **Master of Sciences and Technologies, École Polytechnique, Palaiseau, France**
- Major : Energy Infrastructures Management
- Course : Atomic and molecular physics, Semiconductor physics, Material design
- GPA : 3.7/4.3
- Mar. 2019 - Jan. 2020 **Master of Engineering, Kyung Hee University, Seoul, Republic of Korea**
- Major : Information Display
- Research : Solar simulation research
- Advisor : Prof. Jungho Kim
2 Conference Poster, 1 thesis
- GPA : 4.2/4.3
- Mar. 2014 - Feb. 2019 **Bachelor of Science, Kyung Hee University, Seoul, Republic of Korea**
- Major: Information Display
- GPA : 3.7/4.3

ACTIVITIES

- Internship**
- April. 2021 - Jul. 2021 **- Master 2 Internship, GOSS**
Centre for Nanosciences and Nanotechnologies, Palaiseau, France
“Electrical Transport at III-V on Si hybrid interfaces: engineering the hybrid interface for optimal performance”
Supervisor : Dr. Anne Talneau
- May. 2020 - Aug. 2020 **- Master 1 Internship, LPICM**
École Polytechnique, Palaiseau, France
“Modeling the perovskite solar cell and the ion migration based on TCAD, Silvaco”
Supervisor : Prof. Yvon Bonnassieux
- Academic Activities**
- “Modeling the perovskite solar cell and the ion migration with physical approach based on FEM from Silvaco”, Journées Nationales du PhotoVoltaire 2020, France (2021). Poster
- “Optical and Electrical modeling of CIGS solar cells considering the oblique incidence of the sunlight”, International Conference on Advanced Materials and Devices 2019, Jeju, Republic of Korea (2019). Poster
- Publication**
- “Effects of Incoherent Front Cover Glass on Current-Voltage Characteristics of Cu(In,Ga)Se₂ Solar Cells: Investigation into Calculation Accuracy for Cover Glass Modeled as Optically Coherent or Incoherent”
Baik. J, Park. J, Lee. G, Kim. S, Kim. J, Appl. Sci. 2020.
- Teaching Assistance**
- **Display Programming class** (Mar. 2019 – Jun. 2019)
Subject: Basics of programming by using Matlab

LANGUAGE & SKILLS

- Language**
- **Korean** : Native
 - **English** : Fluent (TOEIC score 920, OPIC score IH)
 - **French** : Semi-fluent (DELF B1)
- Software**
- **C language, Python, MATLAB, COMSOL, SILVACO Atlas, Origin**