# SEONGBIN LIM

PhD Candidate in Computer Science at École Polytechnique
Towards Machine Learning 🔗 **https://sbinnee.github.io/**

135, Wausan-ro 30-gil,
Mapo-gu, Seoul,
Republic of Korea
**(+82) 10 9690 8823**
**sungbin246@gmail.com**

## EDUCATION

### [PhD] Laboratoire d'Optique et Biosciences (*LOB*),
École Polytechnique, PALAISEAU, France — *PhD Candidate*

OCTOBER 2019 - MARCH 2023 (Expected)

Thesis — Versatile machine learning for neurodevelopmental imaging
Description — Developing a self-supervised computer vision neural network

### [MScEng] Kyung Hee University & École Polytechnique
SEOUL, Rep. of Korea & PALAISEAU, France — *Dual Master's Degree*

MARCH 2017 - AUGUST 2019

Innovation Technologique: ingénierie et entrepreneuriat (ITIE)
Quantum display engineering and Computer Science

### [BSc] Kyung Hee University
SEOUL, Rep. of Korea — *Bachelor's Degree*

MARCH 2011 - FEBRUARY 2017
(Military Service SEPTEMBER 2011 - JUNE 2013)

Dpt. of Information Display, College of Science

## EXPERIENCE

### PandaScore,
40 Rue de l'Échiquier, PARIS, France — *Intern*

APRIL 2019 - AUGUST 2019

Topic — Head-up display detection in e-sport
Description - Object detection with Faster R-CNN in Data scientist Dept.

### Laboratoire d'Optique et Biosciences (*LOB*)
École Polytechnique, PALAISEAU, France — *Intern*

MARCH 2018 - AUGUST 2018

Topic — Low-level deep filters for large microscopy volumes
Description — Filter application with U-Net for biosciences

### Laboratory of Quantum Information Display (*QID*)
Kyung Hee University, SEOUL, Rep. of Korea— Intern

MARCH 2017 - DECEMBER 2017

Topic — Nanomaterial; Graphene and Porous anodic aluminum oxide
Teaching Assistant — Undergraduate class 'Optoelectronics experiment'

## PROJECTS

### bioimageloader — *Python library*

Load bioimages for machine learning applications
Link — https://github.com/LaboratoryOpticsBiosciences/bioimageloader

## SKILLS

Machine learning, Deep learning, Data visualization

Python, R, JavaScript, Golang, C/C++, Bash, MATLAB, Linux, Arduino, FPGA, COMSOL, SPICE

## SCHOLARSHIPS

**France Excellence**

FEBRUARY 2018 - JULY 2019

by Campus France and French Embassy in South Korea

## LANGUAGES

| | |
|---|---|
| **Korean** | Native |
| **English** | Fluent |
| **French** | Intermediate (TCF B1) |
| **Japanese** | Basic |

## PUBLICATIONS

[1] "Simultaneous NAD(P)H and FAD fluorescence lifetime microscopy of long UVA–induced metabolic stress in reconstructed human skin",
T. P. L. Ung, **S. Lim**, et al., Sci Rep, vol. 11, no. 1, p. 22171, Nov. 2021, doi: 10.1038/s41598-021-00126-8