

# Mingyu 'Jason' Baek

'Passionate researcher invigorating teammates'

## EXPERIENCE

### (Academic)

Research Assistant, CES(Crop, Environment, and Sustainability) Lab, Seoul National University College of Agriculture and Life Science, South Korea — 2022.8-2023.2

*Research: Early Detection of Rice blast and DCMU treatment by Hyperspectral camera.*

*Design of Field-level Outdoor mobile Hyperspectral camera system.*

*Early Detection of Rice Blast Through a Physiological Signal Derived from Sun-induced Chlorophyll Fluorescence.*



Research Assistant, ART(Advanced Redox Technology) Lab, Seoul National University Department of Engineering, South Korea - 2021.12-2022.1

*Research: Degradation of Urea by GAC-Silica pellets.*

### (Work)

Air Traffic Controller, Sergeant, 16 Airforce military base and airport, Republic of Korea Air Force, Yecheon, South Korea — 2018.2-2020.2

KSAT Math and Science Department Manager , 'Jong-ro M School' — 2020.2-2022.2

## EDUCATION

Seoul National University, Seoul, South Korea — B.S. Agricultural Plant Science, 2023

Seoul National University, Seoul, South Korea — Minor, Biological and Chemical Engineering Science, 2023

## RESEARCH INTEREST

### (Topic)

Agriculture, Digital Revolution in Agriculture field, Crop yield, N fertilizer, Water, Optimizing, and Sustainability.

### (Method)

Remote Sensing: Satellite, Drone, Spectrometer, Hyperspectral system, IR thermal.

## SKILLS

### (Hardware)

[nobel5109@snu.ac.kr](mailto:nobel5109@snu.ac.kr) or [totsonspurs07@gmail.com](mailto:totsonspurs07@gmail.com) +82)10-7763-6108

Hyperspectral camera, 'PIKA-2', Resonon.Inc — Intermediate

Hyperspectral spectrometer, "QE pro", "HR 2000", Licor - Beginner

Fluorometer, "Li 600", Licor - Beginner

Drone, 'Mavic', 'Spark', 'Mini 2', DJI - Intermediate

**(Software)**

Matlab Mathworks - Intermediate

ESRI QGIS, R, Python - Beginner

Adobe Primere Pro, Photoshop - Proficient

Microsoft Excel, Word, and Powerpoint - Proficient

## **CERTIFICATES**

Light UAV license Type 4

Computer Specialist in Spreadsheet & Database Level 1

## **SCHOLARSHIP**

National Based Scholarship, KOSAF (Full) — 2016-2022

MAFRA Scholarship, MAFRA Korea — 2020

Work-Study Scholarship, SNU — 2022-2023

Peer-tutoring Program Scholarship, SNU CALS — 2023 Spring

## **PROGRAM**

SNU in the Australia, SNU (Cross the North to the south Australia) — 2023 Jan.

CALS Start-up Competition — 2022 Fall.

## **LANGUAGES**

English: TOEFL iBT 98, TOEIC 930, TEPS 364.

Korean: Native Language.

## **HOBBY**

(Sports) 1000m Swimming regularly in 'SNUPOOL', Kick the ball in the pitch every Sunday in 'Songak F.C.'

(Entertainment) Upload consistently my edited game video at my YouTube channel.

Written on Mar 18, 2023.