

Julieber Bersabe

Postgraduate Researcher, Kyungpook National University
jtbersabe@knu.ac.kr
<https://jtbersabe.github.io>
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INTERESTS

Urban geography, GIS & remote sensing, and natural disasters

EXPERIENCE

Graduate Student Teaching Assistant 2022-
Kyungpook National University, South Korea

- Assisted professors in lectures and labs, developed laboratory manuals, created educational materials, and contributed to curriculum enhancement for undergraduate geography courses.

University Research Associate 2020-2021
University of the Philippines-Diliman, Philippines

- Conducted geospatial analysis and data processing using GIS tools to assess Special Economic Zones (SEZs) as potential markets for the downstream natural gas industry.

Global Student Intern Sept-Dec 2018
National Education and Training Institute, South Korea

- Translated research materials, coordinated training programs, managed procurement, and promoted research initiatives through content marketing.

EDUCATION

Doctor of Philosophy, Geography 2024-
Kyungpook National University, Daegu, South Korea

- Adviser: Prof. Byong-Woon Jun

Master of Geography, Geography 2022-2024
Kyungpook National University, Daegu, South Korea

- **Thesis:** *Environmental Justice Assessment of Urban Flood Risk in Seoul Using Machine Learning and Intelligent Dasymetric Mapping*
- **Adviser:** Prof. Byong-Woon Jun

Bachelor of Science, Geography 2015-2020
University of the Philippines, Quezon City, Philippines

- **Thesis:** *Emotional Geographies of International Student Mobilities: Exploring Experiences of Acculturation and Adaptation Among Filipino International Students in South Korea*
- **Adviser:** Prof. Yany P. Lopez

PUBLICATIONS

- [1] **Julieber T. Bersabe** and Byong-Woon Jun, "The Machine Learning-Based Mapping of Urban Pluvial Flood Susceptibility in Seoul Integrating Flood Conditioning Factors and Drainage-Related Data," *ISPRS International Journal of Geo-Information* (IJGI), 2025.

CONFERENCES

- [1] **Julieber T. Bersabe** and Byong-Woon Jun, “Exploring the Impact of Drain-related Variables in Modeling Urban Flood Susceptibility Using Machine Learning,” *Poster presentation*, In: 2024 Joint Fall Conference of The Korean Association of Geographic Information Studies and Korean Society of Surveying, Geodesy, Photogrammetry and Cartography, 2024.
- [2] **Julieber T. Bersabe** and Byong-Woon Jun, “Exploring Spatially Varying Relationships Between Basement Homes in Flood Risk Areas and Vulnerable Population in Seoul,” *Poster presentation*, In: 2023 Fall Conference of The Korean Association of Geographic Information Studies, 2023.
- [3] **Julieber T. Bersabe** and Byong-Woon Jun, “Assessing Urban Flood Susceptibility Maps Based on Machine Learning Models in Seoul, South Korea,” *Oral presentation*, In: The 32nd Annual Conference of the Geographic Information System Association and International Association of Geo-informatics (IAG’i), 2023.
- [4] **Julieber T. Bersabe** and Byong-Woon Jun, “Estimating the Populations Vulnerable to Flood Risk in Seoul Using Dasymetric Mapping and Integrated Flooding Data,” *Oral presentation*, In: The 15th Korea-China-Japan Joint Conference on Geography, 2023.

AWARDS

- 2024.11 ***Best Poster Presentation***, 2024 Joint Fall Conference of The Korean Association of Geographic Information Studies and Korean Society of Surveying, Geodesy, Photogrammetry and Cartography
- 2023.10 ***Young Geographers Award - Best Paper***, The 15th Korea-China-Japan Joint Conference on Geography

SCHOLARSHIPS

- 2024 Global Korea Scholarship (GKS) for Graduate Studies (*Doctorate degree*)
- 2020 Global Korea Scholarship (GKS) for Graduate Studies (*Master’s degree*)

SKILLS

Programming Languages: **Python**, L^AT_EX
Human Languages: **Korean** - fluent, **English**, **Tagalog** - native
Softwares: ArcGIS, QGIS, SPSS.