

Hsin-Ju Li

Last update: May. 2025

Department of Geography, University of California Santa Barbara, CA 93106

EDUCATION

University of California Santa Barbara (UCSB), California, USA Sept. 2022 – Present.
Ph.D. in Department of Geography
(Supervisor: Joe McFadden)

National Taiwan University (NTU), Taipei, Taiwan Sept. 2018 – Aug. 2020.
M.S. in Department of Geography (GPA: 4.11/ 4.3)
Thesis: “Assessment of spatiotemporal dynamics of fog daily duration in montane cloud forests of northeast Taiwan” (Supervisor: Cho-ying Huang)

National Taiwan University (NTU), Taipei, Taiwan Sept. 2014 – June 2018.
B.S. in Department of Geography (GPA: 3.84 / 4.3)
Thesis: “Analyze the factors of windthrow-by-typhoon in Chilan Mountain” (Supervisor: Cho-ying Huang)

PEER-REVIEWED PUBLICATIONS

Denaro, L. G., **Li, H. J.**, Chong, J. Y., & Huang, C. Y. (2024). Reconstructing fresh green leaf spectra in the SWIR-2 region (2001–2500 nm) collected in a humid environment by referring to publicly available green leaf spectral databases. *International Journal of Applied Earth Observation and Geoinformation*, 129, 103842.

Li, H. J., Lo, M. H., Juang J. Y., Wang, J., Huang, C.Y. (2022). Assessment of spatiotemporal dynamics of diurnal fog occurrence in subtropical montane cloud forests. *Agricultural and Forest Meteorology*, 317, 108899.

Huang, C.Y., Duran, S.M., Hu, K. T., **Li, H. J.**, Swenson N. G., Enquist, B. J. (2021). Remotely sensed assessment of increasing chronic and episodic drought effects on a Costa Rican tropical dry forest. *Ecosphere*, 12(11), e03824.

Chien, W. C., Li, M. H., **Li, H. J.** (2019). Appropriate management practices help enhance odonate species richness of small ponds in peri-urban landscapes. *Urban Ecosystems* (22): 757-768.

GRANTS AND ACADEMIC AWARDS

Government of Taiwan Scholarship to Study Abroad (\$32000) June 2024 – June 2026.

College Student Research Creativity Award, MOST (\$640) July 2018.

College Student Research Scholarship, MOST (\$1530) July 2017 – Feb. 2018.

* *MOST: Ministry of Science and Technology, Taiwan*

Dean’s Award (top two in class) June 2018.

Dean’s Award (top two in class) June 2016.

WORKSHOP AND CONFERENCE

SBG Science & Applications Technical Interchange Meeting May. 2025.

ESA Annual Meeting	Aug. 2024.
AGU Fall Meeting	Dec. 2019.
International Long Term Ecological Research Network, Taiwan	Oct. 2018.
Taiwan Flux Workshop 2017	Oct. 2017.
Environmental Remote Sensing Technology Camp, Center for Space and Remote Sensing Research, National Central University, Taiwan	July 2017.

FIELD EXPERIENCE

Tree structures measurement (height and base height) in Sedgwick Reserve and Jack and Laura Dangermond Preserve, California Aug. 2024.

Net primary production (diameter at breast height (DBH) measurements and leaf area index with fisheye lens) in Santa Rosa National Park, Costa Rica. June. 2019 – Jul. 2019.

Net primary production (fine-root, litterfall and DBH measurements) and meteorological data collection in Chilan (tropical montane cloud forest, 1800 m a.s.l.), Fushan (tropical humid forest, 600 m a.s.l.) Lienhuachih (tropical humid forest, 700 m a.s.l.) and Alishan (alpine tea farm, 1300 m a.s.l.) of Taiwan. Aug. 2017 – July 2022.

TEACHING EXPERIENCE

Biogeography. TA, UC Santa Barbara Mar. 2025– Jun. 2025.
- *Taught and graded lab sections. Led field works.*

Remote Sensing of the Environment 2. TA, UC Santa Barbara Jan. 2024/25 – Mar. 2024/25.
- *Taught and graded lab sections (images correction and classification in ENVI 5.7 and Google Earth Engine)*

Remote Sensing of the Environment 1. TA, UC Santa Barbara Sept. 2023/24 – Dec. 2023/24.
- *Taught and graded lab sections (aerial photos and multispectral image processing in ENVI classic)*

Remote Sensing of the Environment 3. TA, UC Santa Barbara Apr. 2024 – Jun. 2024.
- *Taught and graded lab sections (images analysis in R, student project consulting)*

Measuring our Environment. TA, UC Santa Barbara Apr. 2023 – Jun. 2023.
- *Assisted lab sections and field measurement at Sedgwick Reserve and Coal Oil Point*

Ocean and Atmosphere. TA, UC Santa Barbara Jan. 2023 – Mar. 2023.
- *Taught and graded lab sections and assisting field measurement*

Discovery of Montane Cloud Forests in Taiwan. TA, NTU Mar. 2020 – Jun. 2020.
- *Assisted field experience and course administration*

Principles of Remote Sensing and Lab. TA, NTU Sept. 2018 – Jan. 2020.
- *Taught lab sections (images classification and land use change in ENVI classic and Google Earth Engine) and course administration*

SKILLS

Field skills: Collecting litterfall data, setting up meteorological sensors with Decagon soil water sensing (ECH2O) and QSO-S PAR, operating LAI-2200 Plant Canopy Analyzer, and QE Pro

spectrometer.

Programming Language: R, Python

Geospatial/Image Processing Software: QGIS, ArcGIS Pro, ENVI/IDL, Google Earth Engine and Matlab

Language: Mandarin (native), English (fluent, TOEFL iBT 104), Japanese (fluent, JLPT N3).