Curriculum Vitae

Mengying Cao

Tel: (+86)15797983033
E-mail: caomy7@mail2.sysu.edu.cn
Address: School of Geography and Planning, Sun Yat-Sen University, Panyu District, Guangzhou, Guangdong, China. (Postcode: 511400)

RESEARCH AREA

remote sensing, vegetation phenology, artificial intelligence

EDUCATIONAL BACKGROUND

- *Sep*.2019-now, **Sun Yat-Sen University,** M.Sc., P. R. China.

- Major: Cartography and Geographic Information Science
- Scholarship: National Scholarship (*Dec.* 2021); First-class Academic Scholarship (2021-2022)
- Professional Competition: Winning prize of The 18th SuperMap Cup (2020)

- *Sep*.2015-*June*.2019, **Jiujiang University,** B.Sc., P. R. China.

- Major: Geographic Information Science
- Scholarship: First-class Academic Scholarship (Twice: 2017-2018,2018-2019); Merit Student
- Psychodrama: excellent screenwriter (2015)
- Debate Competition: First-class prize (2015); Excellent debater (2016)
- Professional Competition: The 6th National GIS Application Contest (2017)
- Graduate honors: 2019 outstanding graduates; 2019 outstanding graduation thesis

RESEARCH EXPERIENCE

[1] **Cao, M. Y.**, Sun, Y., Jiang, X. Li, Z. M., Xin, Q. C. 2021. Identifying leaf phenology of deciduous broadleaf forests from phenocam images using a convolutional neural network regression method. *Remote Sensing*. 2021, 13(12): 2331. https://doi.org/10.3390/rs13122331.

[2] Li, Z. M.; Xin, Q. C., Sun, Y., **Cao, M. Y.** A Deep Learning-Based Framework for Automated Extraction of Building Footprint Polygons from Very High-Resolution Aerial Imagery. *Remote Sensing*. 2021, 13(18): 3630. https://doi.org/10.3390/rs13183630.

[3] **Cao, M. Y.**, Xin, Q. C. 2021. A deep learning method for detecting leaf phenology from phenocam imagery. *IEEE International Geoscience and Remote Sensing Symposium.* IGARSS 2021, July 12, 2021 – July 16, 2021. Brussels, Belgium.

[4] **Cao, M. Y.**, Xin, Q. C. 2021. Vegetation phenology detection of deciduous broad-leaf forest using YOLOv3 from PhenoCam. *Conference Publishing Services*. ICAIE 2021, June 18, 2021 – June 20,2021. Dali, China.

[P01] **Cao, M. Y.**, Xin, Q. C. The invention discloses a method and device for identifying plant growth time. China, accepted, 202110764932.3.

[S01] **Cao, M. Y.**, Xin, Q. C. Predicting vegetation phenology system at different time scales V1.0, 2021SR1540863, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences. 2021.6.3.

LANGUAGE SKILLS

Chinese Level: Mandarin secondary-level A certificate (Native)
English Level: CET 4, CET 6, Oral English Band 6, IELTS (6.5)
Programming languages: Python, R, C#, C, Matlab

PROFESSIONAL SKILLS

Software: ArcGIS, ENVI, MS Office, Google Earth Engine
National Computer Rank: NCRE-2 (Access)
Teacher Certificate: Middle school mathematics (P. R. China)