

Lin Xiong, Ph.D.

Postdoctoral Researcher

Department of Coastal Studies

Tel: 832-490-0588

East Carolina University

Email: xiongl21@ecu.edu

850 NC 345, Wanchese, NC 27981

RESEARCH

Dr. Lin Xiong's research focuses on ecosystem studies using state-of-the-art remote sensing techniques especially lidar (GEDI, ICESat2, ALS, TLS, etc.) with a variety of spatial, temporal, and spectral resolution. His research develops more efficient and more accurate ecosystem models over coastal wetland areas and understand better about how the coastal landscapes respond to natural events and human modifications.

EDUCATION

2020 Ph.D. Geophysics: University of Houston

2015 M.S. Geophysics: Institute of Tibetan Plateau Research, Chinese Academy of Science

2012 B.S. Geology: Peking University

ACADEMIC EXPERIENCE

2021- Postdoctoral Researcher, East Carolina University, Dept. of Coastal Studies

2015-2020 Research Assistant, University of Houston, Dept. of Earth and Atmospheric Sciences

2012-2015 Research Assistant, Chinese Academy of Sciences

SELECTED PUBLICATIONS

- **Xiong, L.** et al. Mapping 30 years of mangrove forest height in South Florida by fusion of ICESat-2, GEDI, and Landsat data with machine learning techniques. 2022, in preparation.
- **Xiong, L.** et al. Quantifying mangrove forest canopy regrowth after a major hurricane with multiple, large-scale repeat G-LiHT airborne Lidar. 2022, under review.
- **Xiong, L.**, Wang, G., Bao, Y., Zhou, X., Wang, K., Liu, H., Sun, X. and Zhao, R., 2019. A rapid terrestrial laser scanning method for coastal erosion studies: A case study at Freeport, Texas, USA. *Sensors*, 19(15), p.3252.
- **Xiong, L.**, Wang, G., Bao, Y., Zhou, X., Sun, X. and Zhao, R., 2018. Detectability of repeated airborne laser scanning for mountain landslide monitoring. *Geosciences*, 8(12), p.469.
- Zhou, X., Wang, G., Bao, Y., **Xiong, L.**, Guzman, V. and Kearns, T.J., 2017. Delineating beach and dune morphology from massive terrestrial laser-scanning data using generic mapping tools. *Journal of Surveying Engineering*, 143(4), p.04017008.
- **Xiong, L.**, Wang, G. and Wessel, P., 2017. Anti-aliasing filters for deriving high-accuracy DEMs from TLS data: A case study from Freeport, Texas. *Computers & Geosciences*, 100, pp.125-134.