Yan Cheng
PhD fellow
Geography
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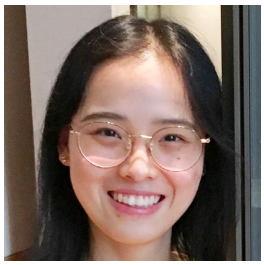

Short presentation

I am passionate about using deep learning to decode earth observations (e.g., satellite images) and to understand terrestrial ecosystems in a changing climate. Application-wise, I am interested in physical climate risk assessment and nature-based solutions to climate change.

Qualifications

Natural Resources Management, MSc, University of Twente
1 Sep 2017 → 22 Mar 2019
Award Date: 22 Mar 2019

Geographical Information Science, BSc, Wuhan University
1 Sep 2013 → 30 Jun 2017
Award Date: 30 Jun 2017

Employment

PhD fellow
Geography 2

København K, Denmark
1 Sep 2021 → nu

Remote sensing specialist
DHI
Denmark
18 Jul 2022 → nu

Data Analyst
World Resources Institute
United States
18 Jan 2021 → 25 Aug 2021

AiO/Research Assistant
University of Twente
Netherlands
2 Dec 2019 → 1 Dec 2020

Research outputs

MAPPING TREE MORTALITY IN CALIFORNIA FROM VERY HIGH RESOLUTION IMAGERY USING DEEP LEARNING
Cheng, Yan, Oehmcke, Stefan, Brandt, Martin Stefan, Das, A., Rosenthal, L., Saatchi, S., Wagner, F., Vrieling, A., Verbruggen, Wim, Beier, Claus & Horion, Stéphanie, 16 Jul 2023.

A framework to assess multi-hazard physical climate risk for power generation projects from publicly-accessible sources
Luo, T., Cheng, Yan, Falzon, J., Kölbel, J., Zhou, L., Wu, Y. & Habchi, A., 18 Apr 2023, In: Communications Earth and Environment. 4, 1, p. 117 1 p.

Mapping and characterising tree mortality in California at individual tree level using deep learning
Cheng, Yan, Oehmcke, Stefan, Brandt, Martin Stefan, Das, A., Rosenthal, L., Saatchi, S., Wagner, F., Verbruggen, Wim, Vrieling, A., Beier, Claus & Horion, Stéphanie, 2023. 1 p.

Identification of temporary livestock enclosures in Kenya from multi-temporal PlanetScope imagery
Vrieling, A., Fava, F., Leitner, S., Merbold, L., Cheng, Yan, Nakalema, T., Groen, T. & Butterbach-Bahl, K., 2022, In: Remote Sensing of Environment. 279, 15 p., 113110.

Assessing Physical Climate Risks for the European Bank for Reconstruction and Development's Power Generation Project Investment Portfolio
Luo, T., Zhou, L., Falzon, J., Cheng, Yan, Christianson, G., Wu, Y. & Habchi, A., 9 Dec 2021, World Resources Institute, 48 p.

Phenology of short vegetation cycles in a Kenyan rangeland from PlanetScope and Sentinel-2
Cheng, Yan, Vrieling, A., Fava, F., Meroni, M., Marshall, M. & Gachoki, S., 2020, In: Remote Sensing of Environment. 248 , 20 p., 112004.