**Materials for the article entitled “Climate-induced forest destabilization and shrub stabilization in Africa”**

***Materials list:***

4 codes used in the paper (available via github)

***Description:***

“code\_for\_iSTSG”: the code for NDVI reconstruction, obtained from Wang et al. (2025). (Java Script on Google Earth Engine)

“code\_for\_AR1\_cal”: the code for calculating AR1 mean and trend based on reconstructed NDVI data. (R v4.3.1)

**“code\_for\_statistic”**: the code for the statistical analysis. (R v4.3.1)

**“code\_for\_RF”**: the code for the attribution analyses based on random forest models. (R v4.3.1)

***Reference***

*W. Wang*et al*., "An Improved Spatiotemporal Savitzky–Golay (iSTSG) Method to Improve the Quality of Vegetation Index Time-Series Data on the Google Earth Engine," in*IEEE Transactions on Geoscience and Remote Sensing*, vol. 63, pp. 1-17, 2025, Art no. 4401917, doi: 10.1109/TGRS.2025.3528988.*