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## EDUCATION

**Institute of Geology and Geophysics, Chinese Academy of Sciences,** Beijing, CN
Ph.D, Paleontology and stratigraphy 2016.
Field: Response of mollusk biodiversity to the warming process since the last deglaciation

**Institute of Geology and Geophysics, Chinese Academy of Sciences,** Beijing, CN
MS, Paleontology and stratigraphy 2013.
Field: Terrestrial mollusk fossil assemblages in Chinese loess deposits

**China University of Geosciences, School of Earth Sciences,** Wuhan, Hubei, CN
B.Sc, Geology 2009. Field: Permian carbonate microfacies

## RESEARCH EXPERIENCE

**Institute of Geology and Geophysics, Chinese Academy of Sciences,** Beijing
Postdoctoral Fellow 2016 – Present
Project: Quantitative paleoclimate reconstruction of snail fossil shells

- Identified the characteristics of soil mollusk communities under the background of modern human disturbance and assessed the strength and extent of the human impacts on fauna communities in the past.
- Explored the rates and magnitudes of mollusk diversity change along the specified environmental gradients in response to the predicted 2 °C warming.
- Quantitative reconstructions of climate conditions since last glacial using transfer function of snail assemblages and clumped isotope (Δ47) compositions of snail shell carbonates.

**Institute of Geology and Geophysics, Chinese Academy of Sciences,** Beijing
Graduate Researcher 2013 – 2016
Thesis Research: Response of Land snail species diversity to the climate warming in the Loess Plateau since the last deglaciation

- Using mollusk fossil records to explore past diversity changes and their long-term linkages with climate changes.

**Luminescence Dating Laboratory, Peking University,** Beijing
Participant, optically stimulated luminescence (OSL) dating experiments, Winter 2011

## RESEARCH INTERESTS

Paleontology, Paleoclimatology, Paleoecology, Quaternary Geology

## SUPPORTED PROJECTS

1. Human disturbed snail assemblages from surface soils of the Loess Plateau and its

implications for the intensity of human activity (NSFC, 2018-2020).

2. Quantitative reconstructions of climate conditions of Quaternary interglacials with low eccentricity in the Loess Plateau and model simulations of their dynamic mechanisms (NSFC, 2015-2019).
3. Response of mollusk biodiversity to the warming process in the Loess Plateau since the last deglaciation (NSFC, 2013-2016)
4. The distribution patterns of snail species diversity in Loess Plateau and its relationship with environmental factors (CPSF, 2017-2020).

**PEER-REVIEWED PUBLICATIONS**

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Huang Linpei, Lu Houyuan, Stenseth Nils. (2021). Paleorecords reveal the increased temporal instability of species diversity under biodiversity loss. Quaternary Science Reviews. 269, 107147.

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Zhang Dan, Zhang Yueting, Huang Linpei, Chen Xiaoyun, Wu Bin, Lu Houyuan. (2020). Anthropogenic modification of soil communities in northern China for at least two millennia: Evidence from a quantitative mollusk approach. Quaternary Science Reviews. 248, 106579.

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Chen Xiaoyun, Zhang Dan, Zhang Yueting, Huang Linpei, Wu Bin, Lu Houyuan. (2019). Influence of monsoonal water-energy dynamics on terrestrial mollusk species-diversity gradients in northern China. Science of the Total Environment. 676: 206-214.

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Lu Houyuan. (2021). Rapid Northwestward Extension of the East Asian Summer Monsoon Since the Last Deglaciation: Evidence From the Mollusk Record. Frontiers in Earth Science. 9, 788738.

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Lu Houyuan. (2021). Coupled morphologic and demographic responses of Opeas striatissimum (Gastropoda: Subulinidae) to latest Pleistocene to early Holocene climate fluctuations. Palaeogeography, Palaeoclimatology, Palaeoecology. 562, 110101.

**Dong Yajie***, Wu Naiqin*, Jiang Wenying, Li Fengjiang, Lu Houyuan. (2020). Cascading response of flora and terrestrial mollusks to last deglacial warming. Global Ecology and Conservation, 24, e01360: 1-9.

**Dong Yajie***, Wu Naiqin*, Li Fengjiang, Huang Linpei, Wen Wenwen. Time-transgressive nature of the magnetic susceptibility record across the Chinese Loess Plateau at the Pleistocene/Holocene transition. PLoS ONE, 2015, 10(7): 1-16.