

## Education

*Beijing Normal University, Beijing, China*

Sept. 2020 – June. 2023

M.E. in Hydraulic Engineering, GPA 3.7 / 4.0

Courses: Advanced Environment Science, River Dynamics, Remote Sensing Application in Hydrology

*China Agricultural University, Beijing, China*

Sept. 2016 – June. 2020

B.Eng in Hydraulic and Hydropower Engineering, GPA 3.69 / 4.0

Courses: Theoretical Mechanics, Mechanics of Materials, Hydraulics

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## Publishments

- **Huang Y**, Yao B, Li Y, et al. Deciphering Hulun lake level dynamics and periodical response to climate change during 1961-2020. *Journal of Hydrology: Regional Studies*, 2023,46:101352.
  - Zhang H, Yao B, Wang S, **Huang Y**; Understanding the changes of optically active substances (OACs) in Hulun Lake in the past 35 years and its indication to the degradation of aquatic ecology. *Journal of Cleaner Production*,2022,377:18.
  - Guo Y, Ni Z, Dong Y, Wang S, Wu Y, Liu S, **Huang Y**; Overlooked great role of wind erosion in terrestrial dissolved organic matter input to lake ecosystem in cold and arid regions. *Science of the Total Environment*, 2023,890:164272.
  - **Huang Y**, Chen J, Han Y. Effect of wall normal velocity on velocity distribution in unsteady flow. *Earth and Environmental Science*. 2020.
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## Research Experience

*Beijing Normal University, Beijing, China*

March. 2021 – Now

“*Dynamic coupling water quantity and quality to reveal the mechanism of lake ecological degradation*”

(*National Key Research and Development Project*) — *Core team member*

- Developed a 3-dimensional lake model coupled with hydrodynamics and water quality based on EFDC
- Analyzed hydro-climate datasets by statistical modeling (Bayesian theory, SEM, etc.)
- Carried out laboratory tests of surface and pore water quality indexes (TN, TP, COD, TOC)
- Participated in the writing of manuscripts and the final report for the project

*China Agricultural University, Beijing, China*

May. 2018 – July. 2019

- Bachelor’s thesis —China Agricultural University. Thesis reference: *Global Attribution of Climate Warming Inferred from Increased VPD*.
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## Extracurricular Activities

*Sports Department BNU, Beijing, China*

Sept. 2020 – Oct. 2021

- Leading a team of 6 members to arrange sports events and invited experts to give lectures regularly

*Winter homestay campaign in orange county, Los Angeles, USA*

Jan. 2019 – Feb. 2019

- Team leader of the overseas visit study (UCLA, UCB and Stanford University)

- Research poster exhibition (Theme: Velocity Distribution of Open Channel)
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## **Skills + Grants**

- Skills:
  - Python, R, MATLAB ;
  - ArcGIS, EFDC, SWAT ;
  - Ghpi, Adobe Photoshop, Origin, AutoCAD
- Language: English, Mandarin
- Grants: Excellent Graduate of Beijing (2020)