

# Curriculum Vitae

## Yaqian He

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### ACADEMIC APPOINTMENTS

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08/2020- **Assistant Professor** in the Department of Geography, University of Central Arkansas, Conway, AR  
09/2018- 07/2020 **Postdoc Research Fellow** in the Department of Geography, Dartmouth College, Hanover, NH

### EDUCATION

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2013-2018 **Ph.D.** in Geography in the Department of Geology and Geography, West Virginia University, Morgantown, WV.  
2010-2013 **M.S.** in Cartography and GIS in the Department of Geography, Beijing Normal University, China.  
2006-2010 **B.E.** in Surveying Engineering in the Dept. of Environment Science and Spatial Informatics, China Univ. of Mining and Tech., China.

### RESEARCH INTERESTS

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Remote Sensing and GIS  
Big Data Analytics  
High-Performance Computing  
Land Cover and Land Use Change  
Climate Change, Extremes, and Modeling  
Land-Atmosphere Interactions

### REFEREED PUBLICATIONS (underscore denotes advised students)

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#### Submitted/Under review

4. W. Tay and **Y. He**, 2022: Estimating biomass carbon emission induced by land cover and land use change from 2001 to 2019 in Arkansas, US. *submitted*
3. F. Fang, A. Greenlee, **Y. He**, E. Eutsler, 2022: Evaluating the Quantity and Quality of Street Trees in Washington, D.C.: Implications for Environmental Justice. *submitted*
2. **Y. He**, P. Siminara, X. Huang, D. Yang, F. Fang, and C. Song, 2022d: Geospatial associations of health, socioeconomic, demographic, and environmental factors with COVID-19 considering temporal disparities in Arkansas, US. *submitted*
1. **Y. He**, M. H. Connolly, R. Xu, X. Huang, Z. Wang, M. Filares-Arreguin, and C. Rhodes, 2022c: Irrigation-climate interactions impact on irrigated soybean yields in the Arkansas Delta. *resubmitted*

#### Published

2022

29. **He, Y.**, J. Chipman, N. Siegert, J. S. Mankin, 2022a. Rapid land cover and land use change in the Indo-Malaysian region over the last 34 years based on AVHRR NDVI data. *Annals of the American Association of Geographers*.
28. He, Q., Q. Meng, W. Flatley, **Y. He**, 2022b. Examining the Effects of Agricultural Aid on Forests in Sub-Saharan Africa: A Causal Analysis Based on Remotely Sensed Data of Sierra Leone. *Land*, 11, 668.
27. Yadav, S., E. Lee.,**Y. He**, 2022. Positive effects of vegetation on temperature over the Alpine Grasslands in the Western Tibetan Plateau. *Earth Interactions*.
26. **He, Y.**+, J.Oh+, E. Lee, J. Kim, 2022. Land cover and land use mapping of the East Asian Summer Monsoon region from 1982 to 2015. *Land*, 11, 391. (+contribute equally)

## 2021

25. Yang, A., Yang, J., Yang, D., Xu, R., **He, Y.**, Aragon, A. and Qiu, H., 2021. Human Mobility to Parks under the COVID-19 Pandemic and Wildfire Seasons in the Western and Central United States. *GeoHealth*, p.e2021GH000494.
24. **He, Y**+, Xu, R+, Prior, S.A., Yang, D., Yang, A. and Chen, J., 2021. Satellite-detected ammonia changes in the United States: natural or anthropogenic impacts. *Science of The Total Environment*, p.147899. (+contribute equally)
23. Liu, J., Shen, W. and **He, Y\***, 2021. Effects of Cropland Expansion on Temperature Extremes in Western India from 1982 to 2015. *Land*, 10 (5), p.489. (\*corresponding author)
22. You, G., Liu, B., Zou, C., Li, H., McKenzie, S., **He, Y.**, Gao, J., Jia, X., Arain, M.A., Wang, S. and Wang, Z., 2021. Sensitivity of vegetation dynamics to climate variability in a forest-steppe transition ecozone, north-eastern Inner Mongolia, China. *Ecological Indicators*, 120, p.106833.

## 2020

21. **He, Y.**, Lee, E. and Mankin, J. S., 2020. Seasonal tropospheric cooling in Northeast China associated with cropland expansion. *Environmental Research Letters*, 15, 034032.
20. Li, Y., Chen, Y., Wang, F., **He, Y.** and Li, Z., 2020. Evaluation and projection of snowfall changes in High Mountain Asia based on NASA's NEX-GDDP high-resolution daily downscaled dataset. *Environmental Research Letters*, 15(10), p.104040.
19. You, G., Arain, M.A., Wang, S., McKenzie, S., Xu, B., **He, Y.**, Wu, D., Lin, N., Gao, J. and Jia, X., 2020. Inter-annual Climate Variability and Vegetation Dynamic in the Upper Amur (Heilongjiang) River Basin in Northeast Asia. *Environmental Research Communications*, 2 (6), p.061003.

## 2019

18. Ji, X., Li, X., **He, Y\*** and Liu, X., 2019. A simple method to improve estimate of county-level economic in China by using nighttime light data and GDP growth rate. *ISPRS International Journal of Geo-Information*, 8(9), pp. 419. (\*corresponding author)
17. Song, C+., **He, Y**+, Bo, Y., Wang, J., Ren, Z., Guo, J. and Yang, H., 2019. Disease relative risk downscaling model to localize various epidemiologic indicators for mapping hand, foot, and mouth disease over China. *Stochastic Environmental Research and Risk Assessment*, pp. 1-19. (+contribute equally)
16. Gaertner, B.A., Zegre, N., Warner, T., Fernandez, R., **He, Y.** and Merriam, E.R., 2019. Climate, forest growing season, and evapotranspiration changes in the central Appalachian Mountains, USA. *Science of The Total Environment*, 650, pp.1371-1381.

## 2018

15. **He, Y.**, Warner, T., McNeil, B. and Lee, E., 2018. Reducing uncertainties in applying remotely sensed land use and land cover maps in land-atmosphere interaction: identifying change in space and time. *Remote Sensing*, 10(4), pp.506.
14. Lee, E. and **He, Y.**, 2018. Could the enhanced forests reduce summer warming in the southern China?. *Journal of Climate Research*, 13(4), pp.345-359.
13. Lee, E., **He, Y.** and Park, Y-L., 2018. Effects of climate change on the phenology of Osmia cornifrons: implications for population management. *Climatic Change*, 150(3-4), pp.305-317.
12. Song, C., **He, Y.**, Bo, Y., Wang, J., Ren, Z. and Yang, H., 2018. Risk assessment and mapping of hand, foot, and mouth disease at the county level in mainland China using spatiotemporal zero-inflated Bayesian hierarchical models. *International Journal of Environmental Research and Public Health*, 15(7), pp.1476.

#### 2017

11. **He, Y.**, Lee, E. and Warner, T.A., 2017. A time series of annual land use and land cover maps of China from 1982 to 2013 generated using AVHRR GIMMS NDVI3g data. *Remote Sensing of Environment*, 199, pp.201-217.
10. Lee, E., **He, Y.** and Shanmugasundaram, J., 2017. Geography of Monsoons. In Oxford Bibliographies in Geography. Ed. Barney Warf. *New York: Oxford University Press*.

#### 2016

9. **He, Y.** and Lee, E., 2016. Empirical relationships of sea surface temperature and vegetation activity with summer rainfall variability over the Sahel. *Earth Interactions*, 20(6), pp.1-18.
8. **He, Y.**, Bo, Y., Chai, L., Liu, X. and Li, A., 2016. Linking in situ LAI and fine resolution remote sensing data to map reference LAI over cropland and grassland using geostatistical regression method. *International Journal of Applied Earth Observation and Geoinformation*, 50, pp.26-38.
7. Ahn, J.J., Son, Y., **He, Y.**, Lee, E. and Park, Y.L., 2016. Effects of temperature on development and voltinism of *Chaetodactylus krombeini* (Acari: Chaetodactylidae): implications for climate change impacts. *PloS One*, 11(8), pp.e0161319.

#### 2015

6. **He, Y.**, Bo, Y., de Jong, R., Li, A., Zhu, Y. and Cheng, J., 2015. Comparison of vegetation phenological metrics extracted from GIMMS NDVIg and MERIS MTCI data sets over China. *International Journal of Remote Sensing*, 36(1), pp.300-317.
5. Lee, E., **He, Y.**, Zhou, M. and Liang, J., 2015. Potential feedback of recent vegetation changes on summer rainfall in the Sahel. *Physical Geography*, 36(6), pp.449-470.
4. Zhu, Y., Kang, E.L., Bo, Y., Tang, Q., Cheng, J. and **He, Y.**, 2015. A robust fixed rank kriging method for improving the spatial completeness and accuracy of satellite SST products. *IEEE Transactions on Geoscience and Remote Sensing*, 53(9), pp.5021-5035.
3. Liu, X., Bo, Y., Zhang, J. and **He, Y.**, 2015. Classification of C3 and C4 vegetation types using MODIS and ETM+ blended high spatio-temporal resolution data. *Remote Sensing*, 7(11), pp.15244-15268.
2. Zheng, L., Bo, Y. and **He, Y.**, 2015. Comparison of natural vegetation phenology developed from MODIS and CYCLOPES and GLASS LAI data product based on dynamical threshold method: a case study in three provinces of Northeast China. *Remote Sensing Technology and Application*, 30 (6), 1103-1112. (Chinese with English abstract)

#### 2013

- Li, A., Bo, Y., Zhu, Y., Guo, P., Bi, J. and He, Y., 2013. Blending multi-resolution satellite sea surface temperature (SST) products using Bayesian maximum entropy method. *Remote Sensing of Environment*, 135, pp.52-63.

## TEACHING EXPERIENCE

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- 2020-current **Instructor** of *Geographic Information Analysis: Python Programming*, Department of Geography, University of Central Arkansas.
- 2020-current **Instructor** of *Introduction to GIS*, Department of Geography, University of Central Arkansas.
- 2020-current **Instructor** of *Geographic Field Technique*, Department of Geography, University of Central Arkansas.
- 2020-2021 **Instructor** of *Cartography*, Department of Geography, University of Central Arkansas.
- 2020 **Guest Lecture** “Spatial statistics: from data to information”, Department of Geology, University of Dayton.
- 2019 **Guest Lecture** ‘The monsoon climate’ in *future faculty teaching series*, Dartmouth Center for the Advancement of Learning.
- 2018 **Guest Lecture** ‘A magic line- division of climate and land use/cover in China’ in *World Regional Geography course*, Department of Geology and Geography, West Virginia University.
- 2016 **Summer Instructor** of *World Regional Geography* at Department of Geology and Geography, West Virginia University. (3 hours/day, 12 undergraduate students)
- 2016 **Guest Lecture** ‘Remote sensing of vegetation: Normalized Difference Vegetation Index (NDVI)’ in *Climate and watersheds course*, Division of Forest and Natural Resources, West Virginia University.
- 2011 **Lab Instructor** of *Introduction to Remote Sensing* at Department of Geography, Beijing Normal University, China. Instructor: Dr. Yanchen Bo. (Spring Semester, 60 undergraduate students)

## GRANT

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### Funded (External)

- 2022 **Sole-PI:** *Identifying the effects of climatic and socioeconomic variables on the spread of COVID-19 in Arkansas using geospatial techniques*, Arkansas INBRE – Summer Manuscript Support Grant (\$7,976)
- 2021 **Co-PI:** *Using historical and model data to guide landscape-scale restoration of fire-adapted shortleaf pine forests in the Ouachita Mountains*, NASA Arkansas Space Grant Consortium New Researcher Grant (2022-2023), with William Flatley (PI) (\$10,000).
- 2021 **Co-PI:** *Using historical and model data to guide landscape-scale restoration of fire-adapted vegetation communities in the Ouachita Mountains*, NASA Arkansas Space Grant Consortium Student Intensive Training Grant (2022-2023), with William Flatley (PI) (\$10,000).
- 2021 **Co-PI:** *Using historical and model data to guide landscape-scale restoration of fire-adapted vegetation communities in the Ouachita Mountains*, NASA Arkansas Space Grant Consortium Student Intensive Training Grant (2021-2022), with William Flatley (PI) (\$10,000).

- 2021 **PI:** *Quantifying irrigation impacts and its consequence climate variability on crop yield in Northern Arkansas Delta*, NASA EPSCoR RID (02/15/2021-02/14/2022); with Matthew Conolly (Co-PI) and Xiao Huang (Co-PI) (\$40,000)
- 2020 **Co-PI:** *Assessing net ecosystem carbon exchange for the conterminous United States with MODIS Data and machine/deep learning models*, Microsoft Azure credit grant (01/2021-01/2022); with (Rongting Xu (PI), Jian Chen (Co-PI), and Di Yang (Co-PI)) (\$15,000).

#### **Funded (Internal)**

- 2021 **Sole-Mentor:** *Identifying the effects of climatic variables on the spread of COVID-19 in Arkansas*, Advancement of Undergraduate Research in the Sciences, University of Central Arkansas (\$5,000).
- 2021 **Sole-Mentor:** *Estimating carbon emission induced by land cover and land use change in Arkansas*, Southwestern Energy Research Fellow, University of Central Arkansas (\$1,500).
- 2020 **Sole-PI:** *Statewide land cover and land use change mapping to constrain uncertainty in the carbon budget in Arkansas*, University Research Council, University of Central Arkansas (05/2021-12/2022) (\$5,178).
- 2020 **Recipient** of Faculty Development Grant, University of Central Arkansas (\$750).
- 2020 **Co-PI:** *Assessing adaptation feedbacks to present and future climate extremes*, Neukom Institute CompX, Dartmouth College (01/2020- 01/2021); with Justin S. Mankin (PI) and Ethan Coffel (Co-PI) (\$39,800).
- 2019 Postdoctoral Scholar Professional Development Award, Dartmouth College (\$750).
- 2018 Open Access Author Fund, West Virginia University (\$1700.43).

#### **Not-Funded**

- 2021 **Co-PI:** Onboard computing systems for remote sensing spatio-temporal environmental data streams, NASA EPSCoR White Paper (07/2022-06/2025) with Miaoqing Huang (PI) and Xiao Liu (Co-PI).
- 2021 **PI:** *Quantifying the effects of climate extreme-irrigation interactions on crop yields in the Amu Darya and Syr Darya river basins*, NASA Land Cover and Land Use Change Program (01/2022-01/2025), with Justin S. Mankin (Co-PI). **Step -1 Approved.** Step-2 declined.
- 2020 **PI:** *Quantifying agricultural aid impacts on deforestation in Ethiopia using remote sensing data*, Early Career Grant, National Geographic Society (09/01/2021-08/32/2020), with Qingqian He (Co-PI), Beza Nisrane (Project member), and Rongting Xu (Project member).
- 2016 **Co-PI:** *Land use and land cover change influences on summer rainfall in Mainland China*, NASA Earth and Science Fellowship (NESSF) program (07/01/2016-06/30/2017); with Eungul Lee (PI).

#### **AWARDS**

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##### **Awards**

- 2021 Award of External Funding for Creative Activities, Scholarship, and Research, University of Central Arkansas.
- 2018 Chinese Government Award for Outstanding Self-financed Student Abroad.

- 2017 Outstanding Merit Fellowship, West Virginia University.
- 2010-2013 Tuition Waiver Scholarship, Beijing Normal University, China.
- 2009 Chinese National Scholarship.
- 2007-2008 First Place Scholarship, China University of Mining and Technology, China.
- 2014-2018 Graduate Student Travel Funds, West Virginia University.
- 2016 Travel Funds to CESM Tutorial, Mesa Lab, National center for atmospheric research (NCAR), Boulder, CO.
- 2016 IGARSS Student Travel Funds, IEEE Geoscience and Remote Sensing Society, Beijing, China.
- 2015 Travel Funds to NCL Workshop, Corporate Technical Training Center (CTTC), NCAR, Boulder, CO.
- 2014 Graduate Student Travel Funds, William E. Vehse Endowment, West Virginia University.

### Competition Awards

- 2018 Finalist in Remote Sensing Specialty Group Student Honors Paper Competition, AAG, New Orleans.
- 2016 First Place in the Student Oral Competition, WV GIS Conference, Morgantown, West Virginia.

### PRESENTATIONS (underscore denotes advised students)

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#### Oral

1. **He, Y.**, Chipman, J., and Mankin, J. S. **2020**. Rapid Indo-Malaysian land cover and land use change over the last 35 years, *Annual Meeting of Southwest Division of American Association of Geographers*, Fayetteville, AR, Oct 26-27.
2. **Y. He**, M. H. Connolly, C. Rhodes, R. Xu, M. Filares-Arreguin, X. Huang, and Z. Wang. **2022**. Impacts of irrigation-climate interactions on cotton and soybean yields in Arkansas Delta, *Annual Meeting of American Association of Geographers*, Feb 25-March 1.
3. S.K. Yadav, E. Lee, **Y. He**. **2022**. Positive associations of vegetation with temperature over the alpine grasslands in the western Tibetan Plateau during May, *Annual Meeting of American Association of Geographers*, Feb 25-March 1.
4. J. Oh, **Y. He**, E. Lee, Y. Kim. **2022**. Mapping annual land cover/land use maps of the East Asian Summer Monsoon region from 1982 to 2015, *Annual Meeting of American Association of Geographers*, Feb 25-March 1.
5. E. Lee, **Y. He**, Y. Kim, A. Im, J. Oh, M. Kim. **2022**. Land cover and land use changes and monsoon variability in East Asia, *International Geographic Union Conference*, July 18-22, Paris.
6. Paul Seminara. **2021**. Identifying the effects of climatic and socioeconomic variables on the spread of COVID-19 in Arkansas, *Annual Meeting of Southwest Division of American Association of Geographers*, Oct 14-16, **2021. (First Prize in the undergraduate paper competition)**
7. **Y. He**, M. H. Connolly, C. Rhodes, R. Xu, M. Filares-Arreguin, X. Huang, and Z. Wang. **2021**. Impacts of irrigation-climate interactions on crop yields in Arkansas Delta, *Annual Meeting of Southwest Division of American Association of Geographers*, Oct 14-16.

8. M. Filares-Arreguin, M. H. Connolly, C. Rhodes, **Y. He**. 2021. visual identification of soybean irrigation status with RGB drone imagery and the VARI index, *Annual Meeting of Southwest Division of American Association of Geographers*, Oct 14-16.
9. He, Q., Meng, Q., Flatley, W., Buenemann, M., **He, Y.** 2020. Agricultural Aid and Deforestation in sub-Saharan Africa: A Sub-national Causal Analysis Based on Remotely Sensed Data of Sierra Leone, *Southwestern American Association of Geographers*, Virtual Meeting, Nov 17-19.
10. **He, Y.** 2020. Land use and land cover change impacts on regional climate. *Department of Geology, University of Dayton*, Feb 4. **(Invited)**
11. He, Q. and **He, Y.**, 2019. Water conflict: an empirical test for neo-malthusian view with remote sensing data. *American Political Science Association*, Washington DC, Aug. 29-Sep. 01.
12. **He, Y.**, Mankin, J. S. and Lee, E., 2019. Agricultural expansion in Northeast China and its impacts on regional climate. *American Association of Geographers*, Washington DC, Apr. 3-7.
13. Lee, E., **He, Y.** and Park, Y-L., 2019. Could the future climate change pose a risk or benefit to bee development. *American Association of Geographers*, Washington DC, Apr. 3-7.
14. Yadav, S., Lee, E. and **He, Y.**, 2019. Spatio-temporal evaluations of reanalysis surface temperatures in the Tibetan Plateau. *American Association of Geographers*, Washington DC, Apr. 3-7.
15. Shull, N., Lee, E. and **He, Y.**, 2019. April vegetation greenness and its impact on near-surface climate conditions in South-Central Appalachia. *American Association of Geographers*, Washington DC, Apr. 3-7.
16. **He, Y.**, McNeil, B., Warner, T.A. and Lee, E., 2018. Reducing uncertainties in applying remotely sensed land use and land cover maps in land-atmosphere interaction: identifying change in space and time. *American Association of Geographers*, New Orleans, LA, Apr. 10- Apr. 14.
17. Yadav, S., Lee, E. and **He, Y.**, 2018. The impact of temperature change in Tibetan Plateau on summer rainfall on western Nepal. *American Association of Geographers*, New Orleans, LA, Apr. 10- Apr. 14.
18. He, Q., Pang, X. and **He, Y.**, 2018. Link Remote Sensing and Political Science: An Application of Foreign Development Aid. *Asian Political Methodology Meetings*, Seoul, Korea, Jan. 11-12.
19. He, Q. and **He, Y.**, 2017. Evaluating Agriculture Aid- A New Approach based on Remotely Sensed Data. *American Political Science Association*, San Francisco, CA, Aug. 31-Sep. 03.
20. Gaertner, B., Nicolas, Z., Fernandez, R. and **He, Y.**, 2016. Climate warming impacts on phenological patterns and hydrology in Central Appalachia, United States. *American Geophysical Union Fall Meeting*, San Francisco, California, Dec. 12- 16.
21. **He, Y.**, Lee, E., and Warner, T. A., 2016. Continuous annual land use and land cover mapping using AVHRR GIMMS NDVI3g and MODIS MCD12Q1 in China from 1982 to 2012. *IEEE International Geoscience and Remote Sensing Symposium*, Beijing, China, July10-15.
22. **He, Y.**, Lee, E. and Warner, T. A., 2016. Detect geographic and temporal patterns of land use and land cover change in China. *West Virginia GIS Conference*, Morgantown, WV, May 3- 6.
23. **He, Y.** and Lee, E., 2015. Empirical relationships of oceanic heat sources and vegetation activity with summer rainfall over the Sahel. *American Association of Geographers*, Chicago, Illinois, April 21-25.
24. Bo, Y., and **He, Y.**, 2014. Linking in situ LAI and fine resolution remote sensing data to estimate the reference LAI for the coarse resolution satellite LAI products validation based on the geostatistical regression. *SPIE: Remote sensing for Agriculture, Ecosystem, and Hydrology*, Amsterdam, Netherlands, Sep. 22-25.

25. **He, Y.** and Bo, Y., **2011**. A consistency analysis of MODIS MCD12Q1 and MERIS Globcover land cover datasets over China. *19<sup>th</sup> International Conference on Geoinformatics*, Shanghai, China, June 24-26.

### Poster

1. **M. Filares-Arreguin, Y. He, M. H. Connolly, and X. Huang. 2022.** Irrigated and rainfed soybean classification using Landsat and drone imagery. *UCA CNSM Poster Symposium*, April 22.
2. **He, Y.,** Chipman, J., and Mankin, J. S. **2020.** Rapid Indo-Malaysian land cover and land use change over the last 35 years, *American Geophysical Union*, Virtual Meeting, Dec. 1-17 (**with 3-minute talk**).
3. **He, Y.** and Mankin, J. S., **2019.** Disentangling warming- from land use- induced precipitation changes over China. *American Geophysical Union*, San Francisco, Dec 09-13.
4. **He, Y.,** Lee, E. and Mankin, J. S., **2018.** The influence of Northeastern China cropland expansion on regional climate. *American Geophysical Union*, Washington DC, Dec 10-14.
5. **He, Y.,** Lee, E. and Warner, T. A., **2016.** Land use and land cover change detection based on AVHRR GIMMS NDVI3g and MODIS MCD12Q1 in Northeast China from 1982 to 2012. *American Association of Geographers*, San Francisco, CA, Mar. 29- Apr. 2.
6. Lee, E., **He, Y.,** Zhou, M. and Liang, J., **2016.** Potential feedback of recent vegetation changes on summer rainfall in the Sahel. *American Association of Geographers*, San Francisco, CA, Mar. 29- Apr. 2.
7. Lee, E., **He, Y.,** Ahn, J.J. and Park, Y-L. **2015.** Effects of future climate change on interactions between pollinator bees and bee parasites. *American Association of Geographers*, Chicago, Illinois, April 21-25.
8. Meng, L., Lee, E. and **He, Y., 2015.** Spatial and temporal variations of agriculture irrigated in China. *American Association of Geographers*, Chicago, Illinois, April 21-25.
9. **He, Y.** and Lee, E., **2014.** Comparisons of AVHRR GIMMS NDVI and MODIS NDVI datasets based on three temporal resampling methods over the Sahel in Africa. *American Association of Geographers*, Tampa, Florida, April 8-12.
10. **He, Y.,** Bo, Y., Zhu, Y. and Li, A., **2013.** Estimating spatial means of elementary sampling unit using MSN theory for field Leaf Area Index collection. *35<sup>th</sup> International Symposium on Remote Sensing of Environment*, Beijing, China, April 22-26.
11. **He, Y.,** Bo, Y. and Li, A., **2012.** Validation and inter-comparison of GLASS, MODIS and CYCLOPES global leaf area index products over the BigFoot and VALERI sites. *First International Symposium on Land Remote Sensing: Algorithms and Products*, Chengdu, China.
12. Ji, X., Bo, Y., Cheng, J., **He, Y.** and Liu, X., **2012.** The method of assessing shape similarity of object-based classification result of remote sensing imagery. *Second International Workshop on Earth Observation and Remote Sensing Applications*, Shanghai, China, June 8-11.

### STUDENT MENTORING

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#### University of Central Arkansas

##### Graduate

2021-current Faith Vire (Committee Chair)

2021-current Willow Hoper (Committee Member)

##### Undergraduate



2021-current Noah Walker (Minor Advisor)  
2021-2022 Caden Rhodes (Research Mentor)  
2021-2022 Marisol Filares Arreguin (Research Mentor)  
2021-2022 Paul Seminara (Research Mentor)  
2021-2022 Wei Tay (Research Mentor)

### **West Virginia University**

2018 Nathan Shull (undergraduate) (Research Mentor)

### **Beijing Normal University, China**

2010 Zheng Li (undergraduate) (Research Mentor)

## **PROFESSIONAL ACTIVATES**

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### **Service to Profession**

2015-present **Peer-Reviewer:** *Global Biology Change* (1), *Environmental Research Letters* (5), *Geophysical Research Letters* (2), *ISPRS Journal of Photogrammetry and Remote Sensing* (2); *Frontiers of Earth Science* (4), *Atmosphere* (4), *International Journal of Remote Sensing* (5), *Journal of Arid Environments* (2), *Remote Sensing Letters* (1), *Sensors* (4), *Applied Geography* (1), *Remote Sensing* (13), *Sustainability* (7), *Climate* (1), *Environmental Research Communications* (1), *Journal of Asia-Pacific Entomology* (1), *Journal of Mountain Science* (1), *Forest Ecosystems* (1), *Journal of Geographical Science* (1), *Agronomy* (2), Scientific Report (2)

2020-present **Topic Board** of *Atmosphere*

2020-present **Reviewer Board** of *Remote Sensing*

2020-present **Reviewer Board** of *Sustainability*

2022-2023 **Guest editor** of special issue: Advances in Mapping Land Use and Land Cover Based on Remotely Sensed Data, in *Remote Sensing*.

2021 **Guest editor** of special issue: Land-Atmosphere Interactions under Climate Change in *Atmosphere*

2020-2021 **Guest editor** of jointed special issue: Land and Monsoon Interactions: Physical and Societal Aspects of Asian Monsoons in *Land and Climate*.

2022 **Jude** of Graduate and Undergraduate Paper Competition, SWAAG.

2020 **Judge** of Outstanding Student Presentation Awards, AGU.

2019 **Co-organizer:** Integrating remotely-sensed data into climate models, *American Association of Geographers*, Washington, DC.

2018 **Co-organizer:** Monsoon geography: physical and societal aspects of monsoon, *American Association of Geographers*, New Orleans, Louisiana.

2016 **Co-organizer and Chair:** Land cover dynamics session, *IEEE International Geoscience and Remote Sensing Symposium*, Beijing, China.

2014 **Volunteer**, American Association of Geographers, Tampa, Florida.

### **Service to Department**

2022 Graduate Council Member, University of Central Arkansas

- 2021 GIS Curriculum Development Committee, Department of Geography, University of Central Arkansas
- 2016-2017 Geography Graduate Colloquium Committee, Department of Geology and Geography, West Virginia University.

### **Faculty Development**

- 2022 Global Learning Institute, UCA Center for Global Learning and Engagement
- 2021 Teaching Excellence Institute, UCA Center for Excellence in Teaching and Academic Leadership
- 2019 Future Faculty Teaching Series, Dartmouth Center for the Advancement of Learning.
- 2019 Creating Inclusive Course Materials, Dartmouth Center for the Advancement of Learning.
- 2017 Grant Writers' Seminar & Workshop, West Virginia University.

### **WORKSHOPS**

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- 2016 Community Earth System Model (CESM) Tutorial, Mesa Lab, National center for atmospheric research (NCAR), Boulder, CO.
- 2015 NCAR common language (NCL) workshop, Corporate Technical Training Center (CTTC), NCAR, Boulder, CO.

### **INTERN EXPERIENCE**

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- 2014-2015 **Summer Intern** at WV GIS Technical Center, West Virginia.
- 2010-2011 **Assistant Officer** of Graduate Affairs, Beijing Normal University, China.
- 2010 **Summer Intern**, Xuzhou Institute of Survey and Mapping, Jiangsu province, China.

### **PROFESSIONAL MEMBERSHIPS**

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- 2018-present American Geophysical Union
- 2013-present American Association of Geographers
- 2016-present IEEE Geoscience and Remote Sensing Society