

# YANG JUE

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## Education:

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### August 2018-May 2023

- **University of Georgia** (*Doctoral Degree*), Athens, Georgia, USA
- Major: Geography
- Dissertation Topic: *Associating, understanding, and measuring environment and physical activity with youth health.*

### August 2016-May 2018

- **University of Florida** (*Master's Degree*), Gainesville, Florida, USA
- Major: Geography
- Thesis Topic: *Understanding spatial-temporal changes of access to healthcare: an analytic framework for local factor impacts.*

### September 2011-June 2015

- **Hunan Normal University** (*Bachelor's Degree*), Changsha, Hunan, China
- Major: Geographic Information Science
- Thesis Topic: *Spatial-temporal clustering of hand, foot, and mouth disease cases in Changsha, 2010-2013.*

### August 2013- May 2014

- **California State University** (*Academic Exchange*), Fresno, California, USA
- Major: Geography

## Research Interests:

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- Geospatial science application on human health and surrounding environment interaction
- Environment impact on physical activity and obesity
- Analyze the relationship between human mobility towards human health by spatial and temporal analysis.
- Spatial modeling

## Work Experiences:

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### July 2023- present

- **Postdoctoral Research Associate at Brown University School of Public Health**
  - Analyze how greenspace exposure and physical activity correlate with children's health.

### January 2023- June 2023

- **Postdoctoral at Arizona State University School of Geographical Sciences and Urban Planning**
  - Analyze the Geographical variability in suicide mortality.

## Research Experiences:

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### April 2021- April 2022

- Microsoft Azure AI Compute Grant Team member

### August 2019-May 2021

- 2019 President's Interdisciplinary Seed Grant Program: **Impact of school and surrounding environment on implementation of Georgia's statewide childhood obesity policy**

### May 2020- May 2021

- **Economic Evaluation Research Group**--COVID-19 related studies (UGA College of public health <https://eerg.publichealth.uga.edu/>)

### August 2016-August 2017

- 2016 UFII Seed Fund: **Developing temporally comparable high-resolution rurality maps for social and health sciences**

### June 2014-August 2014

- Internship in medical geography at joint project of Hunan Province CDC and Hunan Normal University

### July 2013-August 2013

- Internship in Mount Lu

## Teaching Experiences:

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### Teaching/Laboratory Assistant:

2022 (Fall)	Geographic Information Science Lab
2022 (Spring)	Programming for Atmospheric Scientists Lab
2021 (Fall)	Geographic Information Science Lab
2019 (Fall)	Human Geography
2019 (Spring)	Human Geography
2018 (Fall)	Human Geography

## Academic Service and Professional Experience:

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2024	Nature and Health: A Cells to Society Approach Workshop. Steering Committee
2023-present	Key Laboratory of Physical Fitness and Exercise Rehabilitation of Hunan Province, Hunan Normal University, Changsha, China: <b>Integration and application of new fitness and health equipment and wearable devices.</b> Project Number: 2022YFC2010203. Consultant
2023-present	<b>ISPRS International Journal of Geo-Information</b> Guest Editor <b>Special Issue:</b> HealthScape: Intersections of Health, Environment, and GIS&T
2023	Geography Doctoral Comprehensive Examination Policy Committee (UGA) Student representative
2023	<b>Applied Geography</b> Editor assistant
2022	<b>AutoCarto</b> Student Volunteer
2020	<b>UGA GIS DAY</b> Organizer
2019	<b>UGA GIS DAY</b> Volunteer

## **Skills:**

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- Spatial data process (ArcGIS Pro, R, GeoDa, QGIS, and SaTScan)
- Programming (R, Python)
- Statistical Analysis (JMP, R, SPSS)
- Spatial Online website (ArcGIS Dashboard and ArcGIS Hub)
- GIS certificate (UGA)

## **Publications:**

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1. Yang, A., Cheng, W., **Yang, J.**, Cai, C., Li, H., & Yang, D. (2024). Unveiling disparities: a social media analysis of urban park usage and sentiments in Oklahoma City. *GeoJournal*, 89(4), 173.
2. **Yang, J.**, Mu, L., & Grigsby-Toussaint, D. S. (2024). Public perceptions and expectations of urban park environments on children's play: A GIS and text mining analysis on children's activity in Atlanta's parks using social media data. *Environment and Planning B: Urban Analytics and City Science*, 23998083241260484.
3. Rogerson, P., **Yang, J.**, & Bagchi-Sen, S. (2024). Recent geographic patterns in suicide in the United States. *GeoJournal*, 89(1), 1-15.
4. **Yang, J.**, Mu, L., & Rajbhandari-Thapa, J. (2023). Measuring and Mapping Physical Activity Disparity (PAD) Index Based on Physical Activity Environment for Children. *ISPRS International Journal of Geo-Information*, 12(3), 134.  
Interactive Map site : <https://pad-index-play-desert-oasis-usg.hub.arcgis.com/>
5. **Yang, J.**, Rajbhandari-Thapa, J., Mu, L., Zhang, D., & Thapa, K. (2022). Physical activity environment inside and outside school and youth fitness: A spatial analysis at the level of elementary school attendance zone in Georgia. *Indoor and Built Environment*, 1420326X221135337.
6. Yang, A., Rodriguez, M., Yang, D., **Yang, J.**, Cheng, W., Cai, C., & Qiu, H. (2022). Leveraging Machine Learning and Geo-Tagged Citizen Science Data to Disentangle the Factors of Avian Mortality Events at the Species Level. *Remote Sensing*, 14(10), 2369.
7. Yang, A., **Yang, J.\***, Yang, D., Xu, R., He, Y., Aragon, A., & Qiu, H. (2021). Human Mobility to Parks Under the COVID - 19 Pandemic and Wildfire Seasons in the Western and Central United States. *GeoHealth*, 5(12), e2021GH000494.
8. Yang, D., Yang, A., **Yang, J.**, Xu, R., & Qiu, H. (2021). Unprecedented migratory bird die - off: A citizen - based analysis on the spatiotemporal patterns of mass mortality events in the western United States. *GeoHealth*, 5(4), e2021GH000395.

9. Yaghjian, L., Cogle, C. R., Deng, G., **Yang, J.**, Jackson, P., Hardt, N., ... & Mao, L. (2019). Continuous rural-urban coding for cancer disparity studies: is it appropriate for statistical analysis?. *International journal of environmental research and public health*, 16(6), 1076.
10. Mao, L., **Yang, J.**, & Deng, G. (2018). Mapping rural–urban disparities in late-stage cancer with high-resolution rurality index and GWR. *Spatial and spatio-temporal epidemiology*, 26, 15-23.
11. **Yang, J.**, & Mao, L. (2018). Understanding temporal change of spatial accessibility to healthcare: An analytic framework for local factor impacts. *Health & place*, 51, 118-124.

#### **Under review:**

DS. Grigsby-Toussaint \*, JC Shin, AR Acevedo, W Kemball-Cook, D Story, A Katz, U Nwanaji-Enwerem, G Evans, A Johnson, B Ury, YM. Romero-Ramos, J Yang, D M. Barker, JE. McGeary, S. Dunsiger. Project G-SPACE: Protocol for exploring the influence of green space on sleep and mental health among children

#### **Manuscript in preparation:**

J Yang, A Katz, AR Acevedo, A Johnson, B Ury, D Story, G Evans, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. GPS-derived green space exposure and physical activity (PA) among elementary school children in Rhode Island.

J Yang, S Dunsiger, D S. Grigsby-Toussaint,.Seasonal Impact of Greenspace on Child Opportunity: An Analysis of NDVI and the Child Opportunity Index Across US Census Tracts

NM, Wu, J Yang\*. Spatial-temporal analysis of the environment and cancer mortality in the US.

#### **Grant:**

2023	University of Georgia Travel Grant	\$500
2022	University of Georgia Travel Grant	\$1150
2021	Azure Compute Credit Grant, Microsoft AI	\$15000
<i>Titled “Unprecedented Western Bird Die-offs: Disentangling the Factors of Mortality Events at the Species-Level Using Machine/Deep Learning and Citizen Science”</i>		
2018	University of Florida Travel Grant	\$300
2014	California State University, Fresno Conference Travel Grant	\$1000

#### **Award:**

The University of Georgia Obesity Initiative Second Annual Symposium 2022:	
Student poster presentation competition -Third Place \$150	
UGA Graduate School Teaching Assistantship	2021-2022
UGA Graduate Research Assistantship	2020spring-2021spring
UGA Graduate School Teaching Assistantship	2018fall-2019fall
UF Research assistantship	2016fall-2017summer

## Conference:

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1. J Yang, S Dunsiger, D S. Grigsby-Toussaint, Seasonal Impact of Greenspace on Child Opportunity: An Analysis of NDVI and the Child Opportunity Index Across US Census Tracts. International Medical Geography Symposium (IMGS) 2024. Jul 14–19, 2024. Poster Presentation.
2. D Grigsby-Toussaint, **J Yang**, AR Acevedo, G Evans, A Johnson, A Katz, W Kemball-Cook, U Nwanaji-Enwerem, YM. Romero-Ramos, D Story, B Ury, JC Shin, D Barker, J McGeary, S Dunsiger. The 3-30-300 Rule for Green Space Exposure and Sleep in Elementary School Children. SLEEP 2024 | APSS Annual Meeting | AASM | SRS. June 1-5. Oral and Poster Presentation.
3. D Grigsby-Toussaint, **J Yang**, AR Acevedo, G Evans, A Johnson, A Katz, W Kemball-Cook, U Nwanaji-Enwerem, YM. Romero-Ramos, D Story, B Ury, JC Shin, D Barker, J McGeary, S Dunsiger. GPS-derived Green Space Exposure and Sleep Among Elementary School Children. SLEEP 2024 | APSS Annual Meeting | AASM | SRS. June 1-5, 2024. Oral and Poster Presentation.
4. YM. Romero-Ramos, AR Acevedo, A Katz, G Evans, A Johnson, W Kemball-Cook, Z Maxwell, U Nwanaji-Enwerem, D Story, B Ury, **J Yang**, JC Shin, D Barker, J McGeary, S Dunsiger, D Grigsby-Toussaint. Sleep-related Impairment and Cognitive Function Among Hispanic and Non-Hispanic Children in Rhode Island SLEEP 2024 | APSS Annual Meeting | AASM | SRS. June 1-5. Poster Presentation
5. **J Yang**, AR Acevedo, F Donnelly, G Evans, A Katz, A Johnson, D Story, B Ury, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. Exploring the Associations Between Children's Exposure to Greenspaces, Physical Activity Behavior, and Health Outcomes: A Mixed-Methods Approach Utilizing Geospatial and Accelerometry Data. **2024 AAG Annual Meeting**. April 16-20, 2024. Oral Presentation
6. L Mu, **J Yang**, NM Wu, JL Zhang, M Almusidi. Is Green Space a Public Health Issue and How to Measure "Vitamin G"? **2024 AAG Annual Meeting**. April 16-20, 2024. Oral Presentation
7. **J Yang**, A Katz, AR Acevedo, A Johnson, B Ury, D Story, G Evans, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. GPS-derived green space exposure and physical activity (PA) among elementary school children in Rhode Island. 2024 **Brown Postdoctoral Research Symposium**. Poster Presentation.
8. B Ury, J Yang, A Katz, AR Acevedo, A Johnson, D Story, G Evans, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. Exploring the Relationship Between Greenspace Exposure and Cognitive Function among Hispanic and Non-Hispanic Childre. **Society of Behavioral Medicine 2024**. March 13-16. Poster Presentation.
9. A Katz, A Acevedo, D Story, A Johnson, B Ury, G Evans, **J Yang**, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. Exploring

the influence of family demographics, everyday discrimination, and parental support for sleep hygiene behavior on children's sleep quality among Hispanic vs. non-Hispanic families. **APHA's 2023 Annual Meeting and Expo.** Nov 12 -15, 2023. Poster Presentation.

10. A Acevedo, D Story, A Katz, A Johnson, B Ury, G Evans, **J Yang**, U Nwanaji-Enwerem, W Kemball-Cook, YM. Romero-Ramos, JC Shin, S Dunsiger, DS. Grigsby-Toussaint. The Relationship Between Green Space Exposure and Sleep in Latino vs Non-Latino Children. **APHA's 2023 Annual Meeting and Expo.** Nov 12 -15, 2023. Poster Presentation.
11. L Mu, IH Kong, **J Yang**, JL Zhang, NM Wu, Geospatial Research on Health and the Environment under the Social-Ecological Model. **International Conference of Geoinformatics 2023.** July 19–25, 2023. Oral Presentation
12. **J Yang**, L Mu. Public perception and expectation of park environments on youth play: a GIS and text mining analysis on youth activity in Atlanta's parks using social media data. **2023 AAG Annual Meeting.** March 22-27, 2023. Oral Presentation
13. Yang A, Rodrigue M, Yang D, **Yang J**, Cheng W, Cai C, Qiu H. Leveraging Machine Learning and Geo-Tagged Citizen Science Data to Disentangle the Factors of Avian Mortality Events at the Species Level. 2022 American Geophysical Union Annual Meeting, Chicago, Dec 12-16th, 2022. Poster Presentation.
14. **J Yang** L Mu, J Rajbhandari-Thapa. Mapping and Measuring Physical Activity Access Disparity (PAD) index based on Youth-Related Environment. 2022 **SEDAAG.** Nov 20-21, 2022. Oral Presentation
15. AN Yang, J Yang, D Yang, RT Xu, YQ He, A Aragon, H Qiu, WW Cheng, CJ Cai. Human Mobility to Parks under the COVID-19 Pandemic and Wildfire Seasons in the Western and Central United States. **2022 AAG Annual Meeting.** Feb.25- March.1, 2022. Oral Presentation
16. **J Yang**, L Mu, J Rajbhandari-Thapa. Designing and Mapping a Youth Physical Activity Disparity (PAD) Index in the US. **University of Georgia Obesity Initiative Symposium** Feb. 28, 2022. Poster Presentation.
17. **J Yang**, L Mu, J Rajbhandari-Thapa. Designing and Mapping a Youth Physical Activity Disparity (PAD) Index. Place and Health 2021. Hosted by the **Geospatial Research, Analysis and Services Program (CDC/ATSDR) and the CDC Geography and Geospatial Science Working Group.** NOV 16, 2021. Oral Presentation
18. **J Yang**, L Mu, J Rajbhandari-Thapa, K Thapa, J Gay, D Zhang Geographic pattern and variation of childhood physical activity, physical fitness and their association with the built environment in Georgia. **APHA's 2020 VIRTUAL Annual Meeting and Expo.** Oct.24-28,2020. Oral Presentation.
19. **J Yang**, L Mu, H Tim, L Zheng Geospatial Analysis of Health Status Drug Addicts in Sichuan,

China. **2019 AAG Annual Meeting**. April 3-7, 2019. Oral Presentation

20. **J Yang**, L Mao. Understanding temporal changes of spatial access to healthcare: an analytic framework for local factor impacts. **2018 AAG Annual Meeting**. April 10-14, 2018. Oral Presentation

## **Blogs, Reports, And Interviews:**

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**06/09/2023**

Marie Holmes (reporter) **These Are The 10 Most Family-Friendly Cities In The U.S.** *HuffPost*. [https://www.huffpost.com/entry/most-family-friendly-us-cities\\_1\\_647e1521e4b0a7554f45f1f1](https://www.huffpost.com/entry/most-family-friendly-us-cities_1_647e1521e4b0a7554f45f1f1)  
Also reported in [Yahoo!news](#).

**06/05/2023**

Sofi Gratas (reporter) *GPB News* **'Play desert' study points to urban, rural disparities in access to good parks** <https://www.gpb.org/news/2023/06/05/play-desert-study-points-urban-rural-disparities-in-access-good-parks>

**05/24/2023**

Amy Norton (reporter) **Nowhere Safe to Play: 'Play Deserts' Keep Kids from Fun Physical Activity.** *Health Day*. <https://consumer.healthday.com/child-physical-2660282636.html>  
Also reported in [USNews.com](#)., [KULR 8](#)., [WFMZ-TV](#)., [Missoulian](#)., [Dispatch-Argus](#)., [Independent Record](#)., [Billings Gazette](#)., [St. Louis Post-Dispatch](#)., [tdn.com](#)., [Rapid City Journal](#)., [The Buffalo News](#)., [Columbus Telegram](#)., [The Bismarck Tribune](#)., [Lincoln Journal Star](#)., [The Southern Illinoisan](#)., [The Sentinel\(Pennsylvania\)](#)., [Beatrice Daily Sun](#)., [Drugs.com](#)., [Arizona Daily Star](#)., [Hola Doctor](#)., and [News Azi](#).

**05/17/2023**

Leigh Beeson (reporter) **'Play deserts' common throughout Deep South, Southwest.** *UGA Today*. <https://news.uga.edu/play-deserts-common-in-us/>  
Also reported in [Mirage News](#)., [Futurity](#)., and [EurekAlert!](#).

**05/20/2021**

Morgan Mitchell (reporter). **Study finds wildfires contribute to migratory bird die offs.** *Durango Herald*. <https://www.durangoherald.com/articles/study-finds-wild-fires-contribute-to-migratory-bird-die-offs/>