

Sean G Young, PhD

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Education

- PhD in Geography, University of Iowa, Iowa City, IA 2013-2017
Dissertation: "Landscape Genetics of Avian Influenza (H5N1 and H9N2) in Egyptian Poultry from 2006-2015: Co-Infection, Key Substitutions, and Viral Diffusion"
Advisor: Margaret Carrel, PhD
- MA in Geography, University of Arkansas, Fayetteville, AR 2011-2013
Thesis: "Landscape Epidemiology and Machine Learning: A Geospatial Approach to Modeling West Nile Virus Risk in the United States"
Advisor: Jason A Tullis, PhD
- BS in Geography (magna cum laude), Brigham Young University, Provo, UT 2004-2011

Current Position

Assistant Professor
Department of Environmental and Occupational Health
University of Arkansas for Medical Sciences
Little Rock, AR

Academic Appointments *[Note: in reverse chronological order]*

- Adjunct Lecturer 2019-Present
Department of Geosciences
University of Arkansas
Fayetteville, AR
- Assistant Professor 2017-Present
Department of Environmental and Occupational Health
University of Arkansas for Medical Sciences
Little Rock, AR
- Instructor 2015
Department of Geographical and Sustainability Sciences
University of Iowa
Iowa City, IA

Certification

- Graduate Certificate in Informatics (Geoinformatics), University of Iowa 2015
ArcGIS Desktop Associate 10.1 Certification, Esri 2012

Professional Memberships and Activities

- American Heart Association (AHA)**
Member 2022-Present
- American Association of Geographers (AAG)**
Member 2011-Present
- Heterodox Academy**

Member American Public Health Association (APHA)	2019-Present
Member American Society of Photogrammetry and Remote Sensing (ASPRS)	2019-2020
Member	2012-2014
President, University of Arkansas Student Chapter	2013-2014

Honors and Awards

Faculty Award for Excellence in Teaching, Fay W. Boozman College of Public Health, University of Arkansas for Medical Sciences	2021
Jacques May Thesis Prize (Master's Division), Health and Medical Geography Specialty Group of the AAG	2014
NSF IGERT. "GEEMaP (Geoinformatics for Environmental and Energy Modeling and Prediction)." (Trainee) \$90,000	2013-2017
University of Iowa Presidential Graduate Research Fellowship. (Fellow) \$150,000	2013-2017
Valedictorian, Geography Department, Brigham Young University	2011
Eagle Scout, Boy Scouts of America	2001

Committee Assignments and Administrative Services

COVID-19 Modeling Committee, College of Public Health, University of Arkansas for Medical Sciences	2020-2021
Website Committee, Department of Environmental and Occupational Health, University of Arkansas for Medical Sciences	2018-Present

Educational Activities

Course and Curriculum Development	
Developer, Geospatial Data Science in Public Health, University of Arkansas	2021-2022
Developer, Geographic Information Systems for Health Professionals, University of Arkansas for Medical Sciences	2019-2020
Lead Content Developer, Intro to Geospatial Analysis Using ArcGIS, University of Arkansas	2013
Lead Content Developer, Intro to Geographic Information Sciences, University of Arkansas	2012
Courses Directed	
Environmental and Occupational Health (ENVH 5102), University of Arkansas for Medical Sciences	2018-Present
Didactic Teaching	
Geographic Information Systems in Public Health (ENVH 5447/6447, previously OEHM 5104), Instructor, University of Arkansas for Medical Sciences	2020-Present
Geospatial Applications and Information Science (GEOS 3543/5543), Instructor, University of Arkansas	2019-Present
Foundations of Biomedical Informatics: Public Health Informatics (BMI 5103), Guest Lecturer, University of Arkansas for Medical Sciences	2019-Present
Environmental and Occupational Health (ENVH 5102), Instructor, University of Arkansas for Medical Sciences	2018-Present
Epidemiology of Infectious Diseases (EPID 6550), Guest Lecturer, University of Iowa	2016
Health and Environment: GIS Applications (GEOG 4150), Instructor, University of Iowa	2015
Intro to Geographic Information Sciences (GEOS 3543), TA, University of Arkansas	2011-2013
Advanced Vector GIS (GEOS 5033), TA, University of Arkansas	2012

Vector GIS (GEOS 4583), TA, University of Arkansas	2012
Global Environment (GEOG 101), TA, Brigham Young University	2010-2011
Intro to GIS (GEOG 212), TA, Brigham Young University	2009-2010

Graduate Student Committees (**graduated*)

Shelbie Stahr, University of Arkansas for Medical Sciences, PhD Dissertation Committee	2021-Present
Jared Gowen, University of Arkansas for Medical Sciences, MPH ILE Committee Chair	2020-2021*
Marissa Johnston, University of Arkansas for Medical Sciences, MPH ILE Committee	2020-2021*
Heather Hirsch, University of Arkansas for Medical Sciences, MPH APE Faculty Advisor	2020*
Gregory A. Sheridan, University of Arkansas for Medical Sciences, MPH ILEPAC Committee	2019-2020*
Krista Garner, University of Arkansas, PhD Dissertation Committee	2018-Present
Meghan Ayers, University of Arkansas for Medical Sciences, MPH ILEPAC Committee	2018-2019*
Carl Richard Taffner, University of Arkansas for Medical Sciences, MPH CEP Advisory Committee	2017*

Other Student Mentoring (**graduated*)

Hayden McDonald, Lab Mentorship (UA)	2022-Present
Christopher Burkhart, Lab Mentorship (UA)	2021-Present
Putu Pujiantari, Lab Mentorship (UA)	2021
Shayla Dixon, Lab Mentorship	2021
Debra Walters, Academic Advisor	2021-Present
Taylor Hammonds, Academic Advisor	2020-2021*
Josie Collins, Lab Mentorship (Ouachita Baptist University)	2020
Arhita Dasgupta, GIS Training	2019-2021*
Justin Anderson, Lab Mentorship	2019-2020
Meghan Ayers, Lab Mentorship	2018-2019*
Griffin Knight, Undergraduate Intern (University of Central Arkansas)	2018

Grants and Contract Awards

Current

1P50MD017319-01	Cornell & Fagan (MPIs)	09/24/21-06/30/26
The Center for Research, Health, and Social Justice		
NIH NIMHD		

The Center goals are to 1) advance the science of chronic disease health disparities by using transdisciplinary, multilevel, and social structural approaches; 2) facilitate research and training opportunities to strengthen the capacity of researchers and community members for developing interventions that aim to reduce chronic disease disparities using a social justice lens; and 3) support equitable academic-community partnerships to address the root causes of chronic disease disparities and promote sustainable solutions.

Role: **Co-Investigator (10%)**
\$18,900,000

AWD00055094	Young (PI)	10/01/21-09/30/23
Geospatial Data Science in Public Health: Inter-institutional educational collaboration to enhance data science curriculum in Arkansas		

Arkansas NSF EPSCoR

Development of a new undergraduate/graduate online course “Geospatial Data Science for Public Health” as part of the Data Science program at the University of Arkansas – Fayetteville.

Role: **Principal Investigator (8.3%)**
\$55,696

No number assigned Young (PI) 07/01/21-06/30/22

Enhancing geospatial literacy in public health education through web mapping

UAMS Office of Educational Development

To improve the web mapping curriculum within the course "Geographic Information Systems for Health Professionals" to enable students to gain unique and powerful skills to help them stand out above their peers, and broaden geospatial literacy within public health.

Role: **Principal Investigator (0%)**

\$3,794

No number assigned Henry-Tillman (PI) 10/01/21-06/30/22

Arkansas Colorectal Cancer Screening Program

Arkansas Department of Health

This program seeks to increase statewide colorectal cancer screening rates through partnerships.

Role: **Co-Investigator (10%)**

\$450,000 per year in state funding

3U54MD002329-14S1 Cornell (PI) 06/01/21-04/30/22

The role of prisons in community spread of COVID-19: Disparate epidemiologic profiles in rural, racial/ethnic minority, and low socioeconomic US counties

NIH NIMHD

The overall objective of the study is to better understand the drivers of COVID-19 spread in rural and underserved areas by illustrating the role that prison-based COVID-19 outbreaks play in community spread, which will allow us to develop better interventions for individuals transitioning between correctional and community locations during current and future pandemics.

Role: **Co-Investigator (10%)**

\$179,720

R01 NR019487-01 Long (PI) 05/01/21-06/30/25

Home Food Delivery for Diabetes Management in Patients of Rural Clinics

NIH NINR

Determine whether a scalable, sustainable home food delivery intervention that is designed with rural food insecure patients with Type 2 Diabetes in mind can improve their health and diet quality.

Role: **Co-Investigator (15%)**

\$2,524,514

GA5RH37458 Eswaran (PI) 06/01/20-03/31/22

Availability of Telehealth Resources and Opportunities in 3 Telehealth Resource Center Regions

HRSA

Design and implementation of a scalable online GIS tool for exploring telehealth resources and opportunities in the South Central, Mid-Atlantic, and Northeast Telehealth Resource Centers' regions.

Role: **Co-Investigator (10%)**

\$828,571

1U01DD001229, CDC Nembhard (PI) 09/01/18-08/31/23

Component A: Arkansas Proposal to participate in the Birth Defects Study to Evaluate Pregnancy exposureS (BD-STEPS II)

CDC

To identify modifiable early pregnancy exposures that may decrease the occurrence of selected birth defects, discovering gene-environment interactions that lead to birth defects, and helping develop future generations of birth-defect researchers by training and mentoring junior researchers.

Role: **Co-Investigator (7.5%)**
\$5,397,516

Past

No number assigned James (PI) 01/01/21-12/31/21

UAMS COVID-19 Seroprevalence Survey

State of Arkansas CARES Act Funding

To assess antibody seroprevalence for SARS-CoV-2 in the general Arkansas population in the midst of the COVID-19 pandemic.

Role: **Co-Investigator (3%)**
\$3,377,042

No number assigned Henry-Tillman (PI) 04/01/21-06/30/21

Arkansas Colorectal Cancer Screening Program

Arkansas Department of Health

This program seeks to increase statewide colorectal cancer screening rates through partnerships.

Role: **Co-Investigator (25%)**
\$450,000 per year in state funding

ACHRI039064 Daley (PI) 01/01/20-03/31/21

Predicting Spatial Risk of Child Maltreatment as a Means to Equitably Align and Catalyze Healthcare, Public Health, and Child Welfare Resources

ACRI

To identify locations where child maltreatment, related deaths, and pathophysiology have an increased risk of occurring due to environmental features exerting a spatial influence on these outcomes.

Role: **Co-Investigator (10%)**
\$15,327

R15CA231510-01S1 Su (PI) 09/01/19-08/31/20

Evaluating Impact of Diet and Fresh Food Access on Aggressive Prostate Cancer using Multi-Level Modeling

NIH NCI

An administrative supplement to an existing NCI R15, this project uses geospatial accessibility and multi-level modeling to examine the relationships between fresh food access, folic acid intake, and prostate cancer aggressiveness.

Role: **Co-Investigator (10%)**
\$87,299

No number assigned Young (PI) 07/01/18-08/31/19

Mapping Unmet Demand for Mammography Services in Arkansas

Mammovan BCBS & Wal-Mart Foundation Funds for MammoVan

This project seeks to identify and map all facilities in Arkansas providing mammography screening services, map theoretical demand for those services based on population distribution, and identify areas of unmet demand using capacitated optimization models for spatial accessibility.

Role: **Principal Investigator (5%)**
\$16,035

Publications

Peer-reviewed Articles

1. **Young SG**, Jensen RR. Statistical and visual analysis of human West Nile virus infection in the United States, 1999-2008. *Applied Geography*, 34, 425-431. doi: 10.1016/j.apgeog.2012.01.008 2012
2. **Young SG**, Tullis JA, Cothren J. A remote sensing and GIS-assisted landscape epidemiology approach to West Nile virus. *Applied Geography*, 45, 241-249. doi: 10.1016/j.apgeog.2013.09.022 2013
3. Carrel M, **Young SG**, Tate E. Pigs in space: Determining the environmental justice landscape of swine concentrated animal feeding operations (CAFOs) in Iowa. *International Journal of Environmental Research and Public Health*, 13(9), 849. doi: 10.3390/ijerph13090849 PMID: 27571091 PMCID: PMC5036682. 2016
4. **Young SG**, Carrel M, Malanson GP, Ali MA, Kayali G. Predicting avian influenza co-infection with H5N1 and H9N2 in northern Egypt. *International Journal of Environmental Research and Public Health*, 13(9), 886. doi: 10.3390/ijerph13090886 PMID: 27608035 PMCID: PMC5036719. 2016
5. **Young SG**, Carrel M, Kitchen A, Tamerius J, Malanson GP, Ali MA, Kayali G. How's the flu getting through? Landscape genetics suggests both humans and birds spread H5N1 in Egypt. *Infection, Genetics and Evolution*, 49, 293-299. doi: 10.1016/j.meedgid.2017.02.005 PMID: 28179143. 2017
6. Carrel M, Zahrieh D, **Young SG**, Oleson J, Ryckman KK, Wels B, Simmons DL, Saftlas A. High prevalence of elevated blood lead levels in both rural and urban Iowa newborns: spatial patterns and area-level covariates. *PLOS ONE*, 12(5), e0177930. doi: 10.1371/journal.pone.0177830 PMID: 28520816 PMCID: PMC5433780. 2017
7. Martin BE, Hailiang S, Carrel M, Cunningham FL, Baroch JA, Hanson-Dorr KC, **Young SG**, Schmit B, Nolting JM, Yoon K-J, Lutman MW, Pedersen K, Lager K, Bowman AS, Slemons RD, Smith DR, DeLiberto T, Wan X-F. Feral swine in the United States have been exposed to both avian and swine influenza A viruses. *Applied and Environmental Microbiology*, 83(19), e01346-17. doi: 10.1128/AEM.01346-17 PMID: 28733290 PMCID: PMC5601342. 2017
8. **Young SG**, Kitchen A, Kayali G, Carrel M. Unlocking pandemic potential: prevalence and spatial patterns of key substitutions in avian influenza H5N1 in Egyptian isolates. *BMC Infectious Diseases*, 18(1). doi: 10.1186/s12879-018-3222-6 PMID: 29980172 PMCID: PMC6035396. 2018
9. Gruca TS, Nelson GC, Thiesen L, Asprey DP, **Young SG**. The workforce trends of Physician Assistants in Iowa (1995-2015). *PLOS ONE*, 13(10), e0204813. doi: 10.1271/journal.pone.0204813 PMID: 30296294 PMCID: PMC6175273. 2018
10. **Young SG**, Hayes CJ, Aram J, Tait MA. Doctor hopping and doctor shopping for prescription opioids associated with increased odds of high-risk use. *Pharmacoepidemiology and Drug Safety* 28(8), 1117-1124. doi: 10.1002/pds.4838 PMID: 31168860 PMCID: PMC6679752. 2019
11. Kandeil A, Hicks JT, **Young SG**, El Taweel AN, Kayed AS, Moatasim Y, Kutkat O, Bagato O, McKenzie PP, Cai Z, Badra R, Kutkat M, Bahl J, Webby RJ, Kayali G, Ali MA. Active surveillance and genetic evolution of avian influenza viruses in Egypt, 2016-2018. *Emerging Microbes & Infections*, 8(1), 1370-1382. doi: 10.1080/22221751.2019.1663712 PMID: 31526249 PMCID: PMC6758608. 2019
12. **Young SG**, Ayers M, Malak S. Mapping mammography in Arkansas: Locating areas with poor spatial access to breast cancer screening using optimization models and geographic information systems. 2020

- Journal of Clinical and Translational Science, 4(5), 437-442. doi: 10.1017/cts.2020.28 PMID: 33244433 PMCID: PMC7681135.
13. **Young SG**, Gruca TS, Nelson GC. Impact of nonphysician providers on spatial accessibility to primary care in Iowa. *Health Services Research*, 55(3), 476-485. doi: 10.1111/1475-6773.13280 PMID: 32101334 PMCID: PMC7240764. 2020
 14. El Zowalaty ME, **Young SG**, Järhult JD. Environmental impact of the COVID-19 pandemic – a lesson for the future. *Infection Ecology & Epidemiology*, 10(1), 1768023. doi: 10.1080/20008686.2020.1768023 PMID: 32922688 PMCID: PMC7448928. 2020
 15. ELHassan NO, **Young SG**, Gokun Y, Wan F, Nembhard WN. Trends in prevalence and spatiotemporal distribution of gastroschisis in Arkansas, 1998–2015. *Birth Defects Research*, 112, 1484-1494. doi: 10.1002/bdr2.1772 PMID: 33179872. 2020
 16. El Zowalaty ME, DeBeauchamp J, Jeevan T, Franks J, Pretorius R, **Young SG**, Friedman K, Webster RG, Webby R. Molecular detection of influenza A viruses and H5 subtype among migratory Amur falcons (*Falco amurensis*) and captive birds of prey in South Africa. *Transboundary and Emerging Diseases*, 10(1), 1768023. doi: 10.1111/tbed.13988. 2021
 17. Pro G, Gilbert PA, Baldwin JA, Brown CC, **Young SG**, Zaller N. Multilevel modeling of county-level excessive alcohol use, rurality, and COVID-19 case fatality rates in the US. *PLOS ONE*, 16(6), e0253466. doi: 10.1371/journal.pone.0253466 PMID: 34138950 PMCID: PMC8211222. 2021
 18. Brown CC, **Young SG**, Pro G. COVID-19 vaccination rates vary by community vulnerability: A county-level analysis. *Vaccine*, 39(31), 4245-9. doi: 10.1016/j.vaccine.2021.06.038 PMID: 34167838 PMCID: PMC8215509. 2021
 19. Dowling APG, **Young SG**, Loftin K. Collaborating with community scientists across Arkansas to update tick distributions and pathogen prevalence of spotted fever group *Rickettsia* and *Ehrlichia*. *Journal of Medical Entomology*, tjab196. doi: 10.1093/jme/tjab196. 2021
 20. Boehme KW, Kennedy JL, Snowden J, Owens SM, Kouassi M, Mann RL, Paredes A, Putt C, James L, Jing J, Du R, Kirkpatrick C, Modi Z, Caid K, **Young SG**, Zohoori N, Kothari A, Boyanton BL, Forrest JC. Pediatric SARS-CoV-2 seroprevalence in Arkansas over the first year of the COVID-19 pandemic. *Journal of the Pediatric Infectious Diseases Society*, piac010. doi: 10.1093/jpids/piac010. 2022
 21. Su LJ, **Young SG**, Collins J, Matich E, Hsu PC, Chiang TC. Geospatial assessment of pesticide concentration in ambient air and colorectal cancer incidence in Arkansas, 2013-2017. *International Journal of Environmental Research and Public Health*, 19(6):3258. doi: 10.3390/ijerph19063258 2022
 22. Kennedy JL, Forrest JC, **Young SG**, Williams M, James L, Snowden J, Boothe D, Kirkpatrick C, Modi Z, Owens S, Kouassi M, Mann R, Putt C, Irish-Clardy K, Macechko M, Brimberry RK, Du R, Jin J, Zohoori N, Hagrass H, Olgaard E, Boehme KW. Temporal variations in seroprevalence of SARS-CoV-2 infections by race and ethnicity in Arkansas. *Open Forum Infectious Diseases*, (in press). 2022

Book Chapters

1. Tullis JA, Alsumaiti TS, Cothren JD, Lanter DP, Limp WF, Linck RF, Shi X, **Young SG**. Geoprocessing, workflows, and provenance. In PS Thenkabail (Ed.), *Remote sensing handbook*, vol 1, Data: 2015

- characterization, classification, and accuracies (1st ed.). Taylor & Francis. ISBN 9781482217865
2. **Young SG**, Datta J, Kar B, Huang X, Williamson MD, Tullis JA, Cothren J. Challenges and limitations of geospatial data and analyses in the context of COVID-19. In D Sui and SL Shaw (Ed.), Mapping COVID-19 in space and time: Understanding the spatial and temporal dynamics of a global pandemic. Springer. ISBN 9783030728076 2021

Reports & White Papers

1. **Young SG**, Datta J, Cothren J, Williamson M, Song G, Gibson K. UA/UAMS COVID-19 Research Team predictive modeling white paper (with 7 revisions). 2020
2. **Young SG**, Datta J, Cothren J, Williamson M, Song G, Gibson K. COVID-19 Hospitalization impact for Arkansas. Weekly report from Mar. 27 – Jul. 10, 2020. (17 reports) 2020
3. *Brown C, ***Young SG**, *Tilford M, *Patel J, *Maity S, *Datta J, Eyimina A, Fischbach L, Cothren J, Williamson M, Song G, Gibson K, Villafranca AA, Sexton K, Tottori B, Hudson T, Allen J, Alfaneq Z, Pro G, Felix HC, Scott A, Narcisse R, Allen JL, *Amick BC III, *Williams ML (*authors on >50% of reports). COVID-19 forecasts in Arkansas: forecasts, projections, and impact assessments. Bi-weekly (later monthly) report from Jul. 2020 to Sep. 2021. (30 reports) 2020-2021
4. Zaller N, Varghese F, **Young SG**, Udochi B. Expansion of telehealth can address unmet treatment needs among people on probation in Arkansas. RWJF Research Brief. 2021

Abstracts and Presentations

Oral Presentations

Invited Presentations

- Cothren J, Datta J, **Young SG**, Williams MD, Gibson KE, Song G. COVID-19 & health care system preparedness. Presented to Arkansas state government, healthcare, and business leaders, 30 Mar & 3 Apr. University of Arkansas and University of Arkansas for Medical Sciences. 2020
- Young SG**. Convergent GIScience priorities: health and medical geography. Convergent GIScience Priorities Workshop, 28 Oct. Fayetteville, Arkansas 2019
- Young SG**. Using optimization models for spatial accessibility to health care. AR GIS Spring Meeting, 20 Mar. Little Rock, Arkansas 2019
- Young SG**. Are you sure that's a thing? A brief introduction to medical geography. AR GIS Users Forum & OPENGATE Outreach Partnership Conference, 2 Nov. Little Rock, Arkansas 2018
- Young SG**. An introduction to using GIS and medical geography in public health. Department of Geosciences Colloquium, 21 Sep. University of Arkansas, Fayetteville, Arkansas 2018
- Young SG**. Geospatial technologies for public health: Moving beyond mapping. Public Health Grand Rounds, 1 Feb. Arkansas Department of Health, Little Rock, Arkansas 2018
- Young SG**. Medical geography and GIS for public health. Research & Application Seminar. Department of Biomedical Informatics, 2 Nov. UAMS, Little Rock, Arkansas 2017
- Young SG**. More than maps: GIS in public health. Public Health Seminar. College of Public Health, 26 Sep. UAMS, Little Rock, Arkansas 2017

National/International Meetings

Smedley A, Mabry C, Collins T, Tabor J, Bowman S, Porter A, Taylor JR, Sexton K, Young SG , Robertson RD, Holcomb J, Kalkward KJ. Accessibility to immediately available balanced blood products in a rural state's trauma system. Annual Meeting of the AAST and Clinical Congress for Acute Care Surgery, 21-24 Sep. Chicago, Illinois	2022
Kennedy C, Creighton E, Davis KP, Young SG , Johnson A. Evaluating geographic distribution of orofacial cleft anomalies utilizing a statewide birth defects registry. AAO-HNSF Annual Meeting and OTO Experience, 10-14 Sep. Philadelphia, Pennsylvania	2022
Pro G, Young SG . A national time series analysis of community vulnerability and COVID-19 mortality. Society for Epidemiological Research Annual Meeting, 23-25 Jun. San Diego, California (Virtual)	2021
Young SG . Mapping mammography in Arkansas: Locating areas with poor access to breast cancer screening using optimization models and geographic information systems. American Public Health Association Annual Meeting and Expo, 4 Nov. Philadelphia, Pennsylvania	2019
Young SG . Patient travel patterns and high-risk opioid use: Doctor Hopping and Doctor Shopping in Arkansas, USA. International Medical Geography Symposium, 4 Jul. Queenstown, New Zealand	2019
Young SG . Doctor shopping and doctor hopping: spatial analysis of patient travel for prescription opioids. American Association of Geographers Annual Meeting, 2 Apr. Washington, D.C.	2019
Young SG , Carrel M, Kitchen A. Unlocking pandemic potential: key substitutions in avian influenza H5N1 in Egyptian isolates. International Medical Geography Symposium, 4 Jul. Angers, France	2017
Young SG , Gruca TS, Nelson, GC. Re-evaluating Primary Care Health Professional Shortage Areas in Iowa. American Association of Geographers Annual Meeting, 5 Apr. Boston, Massachusetts	2017
Young SG , Carrel M, Kitchen A, Kayali G. The 11th Egyptian plague: A landscape genetics analysis of avian influenza in Egyptian poultry. American Association of Geographers Annual Meeting, 1 Apr. San Francisco, California	2016
Carrel M, Young SG , Tate E. Pigs in space: Determining the environmental justice landscape of swine Concentrated Animal Feeding Operations (CAFOs) in Iowa. American Association of Geographers Annual Meeting, 1 Apr. San Francisco, California	2016
Young SG . Avian influenza in Egypt: ecological niche modeling and co-infection risk. International Medical Geography Symposium, 7 Jul. Vancouver, BC, Canada	2015
Young SG , Carrel M, Kayali G. Landscape genetics of avian influenza in Egypt. Association of American Geographers Annual Meeting, 22 Apr. Chicago, Illinois	2015
Young SG . Landscape epidemiology: West Nile virus in the US. American Society for Photogrammetry and Remote Sensing Annual Meeting, 28 Mar. Baltimore, Maryland	2013
Young SG , Tullis J, Mpedi O. Remote sensing-assisted landslide detection after the 2007 Pisco, Peru earthquake. Association of American Geographers Annual Meeting, 28 Feb. New York City, New York	2012
Local/Regional Meetings	
Young SG . Location! Location! Location! Geocoding, Spatial Clusters, and Geographic Accessibility. Public Health Seminar. College of Public Health, 25 Feb. UAMS, Little Rock, Arkansas	2020
Young SG . Animal rabies in Arkansas, 1995-2016. Arkansas GIS Users Forum Training and Symposium, 5 Oct. Eureka Springs, Arkansas	2017

- Young SG**, Carrel M, Kitchen A, Kayali G. The fifth Egyptian plague returns? 2016
A landscape genetics analysis of avian influenza in Egyptian poultry.
Jakobsen Memorial Graduate Conference, 26 Mar. Iowa City, Iowa
- Young SG**, Carrel M, Kayali G. Mapping co-infection risk for avian influenza in 2015
Egypt. Great Plains Emerging Infectious Diseases Conference, 10 Apr. Iowa
City, Iowa
- Bales Z, Landgren J, Muñoz C, Smith A, **Young SG**, Santos K, Cowles MK. 2014
Modeling and predicting mine sites for hydraulic fracking silica sand in north
eastern Iowa. Annual GEEMaP Workshop, 18 Oct. Iowa City, Iowa

Poster Presentations

National/International Meetings

- Young SG**. Access to telehealth in relation to Health Professional Shortage 2021
Areas in the United States. American Association of Geographers Annual
Meeting, 7 Apr. Seattle, Washington (Virtual)
- Kandeil A, Hicks JT, **Young SG**, El Taweel AN, Kayed AS, Moatasim Y, 2019
Kutkat O, Bagato O, McKenzie PP, Cai Z, Badra R, Kutkat M, Bahl J, Webby
RJ, Kayali G, & Ali MA. Are H9N2 and H5N8 outcompeting H5N1 in Egypt?
Active surveillance, niche models, and replication rates of avian influenza
viruses in Egypt, 2016-2018. Centers for Excellence in Influenza Research
and Surveillance (CEIRS) Annual Meeting, 24 Jun. Baltimore, Maryland
- El-Hassan NO, **Young SG**, Gokun Y, Wan F, Nembhard WN. Prevalence and 2019
spatial variability of gastrochisis in Arkansas, 1998-2013. Pediatric
Academic Societies Meeting, 30 Apr. Baltimore, Maryland
- Young SG**, Aram J., Hayes CJ, Tait MA. Doctor shopping and high-risk use of 2018
opioid prescriptions in Arkansas. American Association of Geographers
Annual Meeting, 13 Apr. New Orleans, Louisiana
- Wilson E, Distelhorst K, Hughes M, **Young SG**, Griffith S, Nygaard T, Voyich 2009
J. Expression and function of bovine CCL28. American Association of
Immunologists Annual Meeting, 11 May. Seattle, Washington

Local/Regional Meetings

- Dasgupta A, Simonson ME, Acuña J, Compadre A, Bimali M, Runnels GA, 2020
Young SG, Faulkner JL, Su J, Kadlubar SA, Zorn KK. Disadvantage and
rurality of African-American participants in SFTC biorepository. Poster
presentation at UAMS Student Research Day, 10 Mar. Little Rock, Arkansas
- Young SG**, Carrel M, Young R, & Lynch C. Cutaneous melanoma in Iowa 2014
exhibits spatial clustering by stage and sex. Poster presentation at Student
Interdisciplinary Health Research Poster Session, 29 Apr. Iowa City, Iowa

Other Scholarly Products

- Consultant/analyst: Milburn, A. (PI), Rainwater, C. (Co-PI). Models for disaster 2013
relief shelter location and supply routing. Final Report for MBTC DOT 3028.
- Expert Editorial Review: "Introduction to Geospatial Technologies" (2nd ed) by 2013
Brad Shellito
- Expert Editorial Review: "Discovering GIS and ArcGIS" (1st ed) by Brad 2014
Shellito
- Expert Editorial Review: "Introduction to Geospatial Technologies" (3rd ed) by 2015
Brad Shellito
- Expert Editorial Review: "Discovering GIS and ArcGIS" (2nd ed) by Brad 2016
Shellito
- Expert Editorial Review: "Introduction to Geospatial Technologies" (4th ed) by 2017
Brad Shellito
- Expert Editorial Review: "Introduction to Geospatial Technologies" (5th ed) by 2019
Brad Shellito

Expert Editorial Review: "Discovering GIS and ArcGIS Pro" (3 rd ed) by Brad Shellito	2020
Expert Editorial Review: "Introduction to Geospatial Technologies" (6 th ed) by Brad Shellito	2022

Professional Community Activities

Peer Review

Article, International Journal of Geo-Information	2022
Article, Pharmacoepidemiology	2021
Article, International Journal of Environmental Research and Public Health	2021
Article, ISPRS International Journal of Geo-Information	2021
Article, Health Services Research	2021
Article, Vaccines	2021
Article, Vaccines	2020
Book Chapter, "Human Dynamics in Smart Cities" series by Springer	2020
Article, Health Services Research	2020
Article, Remote Sensing	2020
Article, Progress in Physical Geography	2020
Article, Applied Geography	2020
2 Articles, International Journal of Environmental Research and Public Health	2020
Article, Remote Sensing	2019
Article, Journal of Clinical Medicine	2019
Article, BMC Veterinary Research	2018
Article, Landscape Ecology	2018
2 Articles, International Journal of Environmental Research and Public Health	2018
Article, Genes	2018
Article, Tropical Medicine and Infectious Disease	2018
Article, Landscape Ecology	2017
2 Articles, International Journal of Environmental Research and Public Health	2017
Article, Sustainability	2016
2 Articles, Applied Geography	2013
Article, Geography Compass	2011

Departmental, College, and University Service

COVID-19 Response Modeling and GIS Support, University of Arkansas for Medical Sciences and Arkansas Department of Health, Little Rock, AR	2020-2021
Esri Site License Coordinator, University of Arkansas for Medical Sciences	2019-Present
Member, M7 Taskforce for Development of Public Health Informatics Certificate, University of Arkansas for Medical Sciences	2018-2019
Judge, ILE Poster Presentations, University of Arkansas for Medical Sciences	2018
Graduate Student Representative to Faculty Meetings, Geographical and Sustainability Sciences, University of Iowa	2015-2016
Graduate Committee, Geographical and Sustainability Sciences, University of Iowa	2014-2015

Professional Service

Guest Editor (Special Issue), International Journal of Environmental Research and Public Health	2021-2022
Conference Volunteer, AAG Annual Meeting in San Francisco, CA	2016
President, UA Student Chapter of the ASPRS, Fayetteville, AR	2012-2013
Moderator, "Disasters - Mapping" Technical Session, ASPRS Annual Meeting in Baltimore, MD	2013
ASPRS Student Assistant, MAPPS-ASPRS Fall Specialty Conference in Tampa, FL	2012
ASPRS Volunteer, The Glossary of Mapping Sciences 2nd Edition	2012

Other Service

Pack Committee Chair, Cub Scout Pack 220, Iowa City, IA	2015-2017
Den Leader, Cub Scout Pack 220, Iowa City, IA	2013-2014
Geography Tutor, BYU	2010-2011
Volunteer Research Assistant, BYU	2009-2011
Full-Time Missionary, Church of Jesus Christ of Latter-day Saints, Maryland Baltimore Mission	2005-2007
Mentor, Provo Youth Mentoring Program, Provo, UT	2004-2005

Community Outreach

“Medical Geography: From Cholera to COVID” – Presentation to Pulaski Academy in Little Rock, AR	2021
“Maps in Action!” – Presentation to Joe T. Robinson Elementary School in Little Rock, AR	2020
“Geographic Variation and Disparities in Screening Mammography Utilization in Arkansas” – Presentation to TRI Community Advisory Board, in Jonesboro, AR	2019
“Examining radon levels in Woodbury County, Iowa” - Health and Environment: GIS Applications course in partnership with Siouxland Interstate Metropolitan Planning Council, the City of Sioux City, and the Siouxland District Health Department, supported by the Iowa Initiative for Sustainable Communities (IISC)	2015
“Mapped sources of Sioux City Farmers’ Market 2015 products: analysis of individual health outcomes and accessibility to healthy food choices” - Health and Environment: GIS Applications course in partnership with Siouxland Interstate Metropolitan Planning Council, the City of Sioux City, and the Sioux City Farmers’ Market, supported by the IISC	2015
Presentations to AP Geography classes at Washington High School in Cedar Rapids, IA	2015
“Modeling and predicting potential frac sand mine locations” - Interdisciplinary project with GEEMaP and Winneshiek County, IA, supported by the IISC	2014-2015