

**Sean G Young, PhD**  
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Last updated: January 24, 2022

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## Education

PhD in Geography, University of Iowa, Iowa City, IA 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	2013-2017
MA in Geography, University of Arkansas, Fayetteville, AR Thesis: "Landscape Epidemiology and Machine Learning: A Geospatial Approach to Modeling West Nile Virus Risk in the United States" Advisor: Jason A Tullis, PhD	2011-2013
BS in Geography (magna cum laude), Brigham Young University, Provo, UT	2004-2011

## Current Position

Assistant Professor  
Peter O'Donnell Jr. School of Public Health  
University of Texas Southwestern Medical Center  
Dallas, TX

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

Assistant Professor Peter O'Donnell Jr. School of Public Health University of Texas Southwestern Medical Center Dallas, TX	2023-Present
Adjunct Lecturer Department of Geosciences University of Arkansas Fayetteville, AR	2019-2022
Assistant Professor Department of Environmental Health Science University of Arkansas for Medical Sciences Little Rock, AR	2017-2022
Instructor Department of Geographical and Sustainability Sciences University of Iowa Iowa City, IA	2015

## 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 <b>American Association of Geographers (AAG)</b>	2022
Member <b>Heterodox Academy</b>	2011-Present
Member <b>American Public Health Association (APHA)</b>	2019-Present
Member <b>American Society of Photogrammetry and Remote Sensing (ASPRS)</b>	2019-2020
Member	2012-2014
President, University of Arkansas Student Chapter	2013-2014

## Honors and Awards

Service Award, Fay W. Boozman College of Public Health, University of Arkansas for Medical Sciences	2022
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	2018-2022

## Educational Activities

Course and Curriculum Development	
Developer, Public Health Cartography, University of Arkansas for Medical Sciences	2022
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	2018-2022
Didactic Teaching	
Geospatial Data Science in Public Health (GEOS 3733/5733), Instructor, University of Arkansas	2022
Public Health Cartography (OEHM 5104), Instructor, University of Arkansas for Medical Sciences	2022
Geographic Information Systems in Public Health (ENVH 5447/6447, previously OEHM 5104), Instructor, University of Arkansas for Medical Sciences	2020-2022

Geospatial Applications and Information Science (GEOS 3543/5543), Instructor, University of Arkansas	2019-2022
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	2018-2022
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 ( <i>*graduated</i> )	
Amarachi Onyebueke, University of Arkansas for Medical Sciences, MPH ILE Committee	2022-Present
Danielle Boothe, University of Arkansas for Medical Sciences, PhD Dissertation Committee	2022-Present
Shelbie Stahr, University of Arkansas for Medical Sciences, PhD Dissertation Committee	2021-2022*
Taylor Hammonds, University of Arkansas for Medical Sciences, MPH ILE Committee	2020-2021*
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 ( <i>*graduated</i> )	
William Watson, Lab Mentorship	2022-Present
Olgaaurora Rodriguez, Academic Advisor	2022
Darla Roberts, Academic Advisor	2022
Hayden McDonald, Lab Mentorship (UA)	2022
Christopher Burkhart, Lab Mentorship (UA)	2021-Present
Putu Pujiantari, Lab Mentorship (UA)	2021
Shayla Dixon, Lab Mentorship	2021
Debra Walters, Academic Advisor	2021-2022
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

PTC2021-12 King (PI) 04/01/22-03/31/23

**Understanding Barriers to Newborn Hearing Screening Follow-up in Arkansas using a Community Based Approach**

NIH NCATS

To investigate the socioeconomic and clinical factors which may contribute to loss to follow up after failed newborn hearing screening, access to care, and eventual hearing and speech outcomes.

Role: **Consultant**

\$49,925

1P50MD017319-01 Cornell & Fagan (MPIs) 09/24/21-06/30/26

**The Center for Research, Health, and Social Justice**

NIH NIMHD

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**

\$18,900,000

No number assigned Henry-Tillman (PI) 04/01/21-06/30/23

**Arkansas Colorectal Cancer Screening Program**

Arkansas Department of Health

To increase statewide colorectal cancer screening rates through partnerships, and map the distribution of existing screening and related resources.

Role: **Co-Investigator**

\$450,000 per year in state funding

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**

\$2,524,514

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**

\$5,397,516

### Past

AWD00055094 Young (PI) 10/01/21-12/31/22

**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**  
\$55,696

No number assigned Young (PI) 07/01/21-12/31/22

**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**  
\$3,794

3U54MD002329-14S1 Cornell (PI) 06/01/21-12/31/22

**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

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**  
\$179,720

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**  
\$828,571

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**  
\$3,377,042

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**  
\$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**

\$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

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**

\$16,035

**Publications**

**Peer-reviewed Articles (\*corresponding and/or co-first author)**

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 2018

- influenza H5N1 in Egyptian isolates. *BMC Infectious Diseases*, 18(1). doi: 10.1186/s12879-018-3222-6 PMID: 29980172 PMCID: PMC6035396
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. *Journal of Clinical and Translational Science*, 4(5), 437-442. doi: 10.1017/cts.2020.28 PMID: 33244433 PMCID: PMC7681135 2020
  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 PMCID: PMC8756334 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 PMID: 33428819 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 PMID: 34850921 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, 2022

- 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 PMID: 35294550 PMCID: PMC8992271
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 PMID: 35328946 PMCID: PMC8951132
  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*, ofac154. doi: 10.1093/ofid/ofac154 PMID: 35493126 PMCID: PMC9045955
  23. Palmsten K, Suhl J, Conway KM, Kharbanda EO, Ailes EC, Cragan JD, Nestoridi E, Papadopoulos EA, Kerr SM, **Young SG**, DeStefano F, Romitti PA. Influenza vaccination during pregnancy and risk of selected major structural non-cardiac birth defects, National Birth Defects Prevention Study 2006-2011. *Pharmacoepidemiology and Drug Safety*, 31(8), 851-862. doi: 10.1002/pds.5435 PMID: 35366035
  24. Ewing LE, Pathak R, Landes RD, Skinner CM, Binz R, **Young SG**, Riklon S, Stahr S, Su J, Boerma M, McElfish PA, Hauer-Jensen M, Koturbash I. Cytogenetic and epigenetic aberrations in peripheral lymphocytes of northwest Arkansas Marshallese. *International Journal of Radiation Biology*. doi: 10.1080/09553002.2022.2110319 PMID: 35939319
  25. Palmsten K, Suhl J, Conway KM, Kharbanda EO, Scholz TD, Ailes EC, Cragan JD, Nestoridi E, Papadopoulos EA, Kerr SM, **Young SG**, Olson C, Romitti PA. Influenza vaccination during pregnancy and risk of selected major structural congenital heart defects, National Birth Defects Prevention Study 2006-2011. *Birth Defects Research*. doi: 10.1002/bdr2.2114 PMID: 36369789
  26. Clement K, McGill MR, Miousse IR, **Young SG**, Melnyk S, Koturbash I. Methylsulfonylmethane serves as a donor of methyl groups for methylation of DNA in human liver HepaRG cells. *Journal of Dietary Supplements*. doi: 10.1080/19390211.2022.2153957 PMID: 36469606

#### 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: 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

#### 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. 2020  
COVID-19 Hospitalization impact for Arkansas. Weekly report from  
Mar. 27 – Jul. 10, 2020. (17 reports)
3. \*Brown C, \***Young SG**, \*Tilford M, \*Patel J, \*Maity S, \*Datta J, Eyimina 2020-2021  
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)
4. Zaller N, Varghese F, **Young SG**, Udochi B. Expansion of telehealth can 2021  
address unmet treatment needs among people on probation in  
Arkansas. (Interdisciplinary Research Leaders) [IRL Research Brief].  
University of Minnesota & Robert Wood Johnson Foundation.

## Abstracts and Presentations

### Oral Presentations

#### \*Invited Presentations

##### National/International Meetings

- Young SG**. Geospatial access to fresh food as a proxy for dietary folate 2023  
information. Solving Critical Problems in Cancer Control with Spatial  
Science: A National NCI Comprehensive Cancer Center Meeting. 17-18 Jan.  
Los Angeles, California
- Gowen JT, Ryan KW, Shelton KR, Sexton KW, **Young SG**. Locating areas in 2023  
Arkansas with poor spatial access to vascular intervention surveillance using  
GIS. Annual Academic Surgical Congress, 7-9 Feb. Houston, Texas
- Pro GC, **Young SG**, Brown C, Hayes C, Bogulski C, Haynes TF, Ingram DL. 2022  
Trends in telehealth availability among specialty mental health treatment  
facilities in the US, 2015-2019: Differences by state telehealth policies.  
American Public Health Association Annual Meeting and Expo, 8 Nov.  
Boston, Massachusetts
- Musfee FI, Politis MD, **Young SG**, Cen R, Magann EF, Nembhard WN. 2022  
Neighborhood deprivation during pregnancy and risk of early and late  
stillbirths. International Clearinghouse for Birth Defects Surveillance and  
Research Annual Meeting, 18-21 Sep. Bologna, Italy
- Kennedy C, Creighton E, Davis KP, **Young SG**, Johnson A. Evaluating 2022  
geographic distribution of orofacial cleft anomalies utilizing a statewide birth  
defects registry. AAO-HNSF Annual Meeting and OTO Experience, 10-14  
Sep. Philadelphia, Pennsylvania
- Pro G, **Young SG**. A national time series analysis of community vulnerability 2021  
and COVID-19 mortality. Society for Epidemiological Research Annual  
Meeting, 23-25 Jun. San Diego, California (Virtual)
- \***Young SG**. Convergent GIScience priorities: health and medical geography. 2019  
Convergent GIScience Priorities Workshop, 28 Oct. Fayetteville, Arkansas
- Young SG**. Mapping mammography in Arkansas: Locating areas with poor 2019  
access to breast cancer screening using optimization models and  
geographic information systems. American Public Health Association Annual  
Meeting and Expo, 4 Nov. Philadelphia, Pennsylvania
- Young SG**. Patient travel patterns and high-risk opioid use: Doctor Hopping 2019  
and Doctor Shopping in Arkansas, USA. International Medical Geography  
Symposium, 4 Jul. Queenstown, New Zealand
- Young SG**. Doctor shopping and doctor hopping: spatial analysis of patient 2019  
travel for prescription opioids. American Association of Geographers Annual  
Meeting, 2 Apr. Washington, D.C.

<b>Young SG</b> , 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
<b>Young SG</b> , 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
<b>Young SG</b> , 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, <b>Young SG</b> , 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
<b>Young SG</b> . Avian influenza in Egypt: ecological niche modeling and co-infection risk. International Medical Geography Symposium, 7 Jul. Vancouver, BC, Canada	2015
<b>Young SG</b> , Carrel M, Kayali G. Landscape genetics of avian influenza in Egypt. Association of American Geographers Annual Meeting, 22 Apr. Chicago, Illinois	2015
<b>Young SG</b> . Landscape epidemiology: West Nile virus in the US. American Society for Photogrammetry and Remote Sensing Annual Meeting, 28 Mar. Baltimore, Maryland	2013
<b>Young SG</b> , 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	
* <b>Young SG</b> . Epidemics amidst the pandemic: Preliminary indicators of Covid-19's indirect impacts on public health. HPM Research Chat. College of Public Health, 17 Nov. UAMS, Little Rock, Arkansas	2022
<b>Young SG</b> . Using StoryMaps for student presentations in an online GIS course. Arkansas GIS Users Forum Spring Meeting, 6 Apr. Benton, Arkansas	2022
*Cothren J, Datta J, <b>Young SG</b> , 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
<b>Young SG</b> . Location! Location! Location! Geocoding, Spatial Clusters, and Geographic Accessibility. Public Health Seminar. College of Public Health, 25 Feb. UAMS, Little Rock, Arkansas	2020
* <b>Young SG</b> . Using optimization models for spatial accessibility to health care. AR GIS Spring Meeting, 20 Mar. Little Rock, Arkansas	2019
* <b>Young SG</b> . 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
* <b>Young SG</b> . An introduction to using GIS and medical geography in public health. Department of Geosciences Colloquium, 21 Sep. University of Arkansas, Fayetteville, Arkansas	2018
* <b>Young SG</b> . Geospatial technologies for public health: Moving beyond mapping. Public Health Grand Rounds, 1 Feb. Arkansas Department of Health, Little Rock, Arkansas	2018
* <b>Young SG</b> . 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. 2017  
College of Public Health, 26 Sep. UAMS, Little Rock, Arkansas
- Young SG**. Animal rabies in Arkansas, 1995-2016. Arkansas GIS Users 2017  
Forum Training and Symposium, 5 Oct. Eureka Springs, Arkansas
- 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**. Geospatial access to fresh food outlets as a proxy for dietary 2023  
folate information. American Association of Geographers Annual Meeting,  
23-27 Mar. Denver, Colorado
- 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 gastroschisis 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

- McDonald H, **Young SG**. Developing a new undergraduate-level course 2022  
focused on Geospatial Data Science in Public Health. Poster presentation at  
DART & Arkansas NSF EPSCoR Annual Conference, 16 May. Little Rock,  
Arkansas
- 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" (2 <sup>nd</sup> ed) by Brad Shellito	2013
Expert Editorial Review: "Discovering GIS and ArcGIS" (1 <sup>st</sup> ed) by Brad Shellito	2014
Expert Editorial Review: "Introduction to Geospatial Technologies" (3 <sup>rd</sup> ed) by Brad Shellito	2015
Expert Editorial Review: "Discovering GIS and ArcGIS" (2 <sup>nd</sup> ed) by Brad Shellito	2016
Expert Editorial Review: "Introduction to Geospatial Technologies" (4 <sup>th</sup> ed) by Brad Shellito	2017
Expert Editorial Review: "Introduction to Geospatial Technologies" (5 <sup>th</sup> ed) by Brad Shellito	2019
Expert Editorial Review: "Discovering GIS and ArcGIS Pro" (3 <sup>rd</sup> ed) by Brad Shellito	2020
Expert Editorial Review: "Introduction to Geospatial Technologies" (6 <sup>th</sup> ed) by Brad Shellito	2022

## Professional Community Activities

### Peer Review

Article, Vaccine	2022
3 Articles, Tropical Medicine and Infectious Disease	2022
3 Articles, 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

Academic Senate, Faculty Representative for College of Public Health, University of Arkansas for Medical Sciences, Little Rock, AR	2022
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	2019-2022
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
<b>Professional Service</b>	
Guest Editor (Special Issue), International Journal of Environmental Research and Public Health	2021-2023
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
<b>Other Service</b>	
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
<b>Community Outreach</b>	
"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