

# Dr. Samuel Adu-Prah

Assistant Professor of Geography (Geographic Information Science & Environmental Modeling)  
Curriculum Vitae

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## PERSONAL INFORMATION

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*Current Home:* Spring, Texas

*Contact Information:* 201 Pruitt Rd # 920  
Spring, Texas, 77380

Email: [sa054@shsu.edu](mailto:sa054@shsu.edu) (Official)

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## MAJOR AREAS OF ACADEMIC INTEREST

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*General:* Geographic Information Science, Environmental Modeling, Spatial Statistics, Spatial Data Mining  
*Specific:* Spatiotemporal Analysis, Remote Sensing of the Environment, Geospatial Applications, Land Use and Land Cover Dynamics, Mangrove Ecosystems, Spatial epidemiology, Public Health, Youth Obesity and Overweight, Malaria, Climate Change, Algorithm Development, Programming Languages, LIDAR Applications, Digital Image Processing  
*Regional Foci:* United States of America, Africa, West Africa, Ghana

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## EDUCATION

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- Ph.D. in Environmental Resources and Policy (*GIS and Environmental Modeling*), Southern Illinois University, Carbondale, Illinois** 2013  
*Dissertation:* Geographic Data Mining and Geovisualization for Understanding Environmental and Public Health Data (2013)
- M.S. in Technology Education, Alcorn State University (Alcorn, Mississippi)** 2002  
*Thesis Project:* The Use of Geographic Information Systems for Higher Education Admissions Planning: Alcorn State University (2002)
- M.Phil. in Geographic Information System (GIS) and Remote Sensing, University of Cambridge (Cambridge, United Kingdom)** 1998  
*Thesis Project:* Assessment of Image Processing Techniques Using Optical and SAR data for Mangrove Forest Mapping in the Volta Estuary, Ghana (1998)
- B.A. (Honors) in Geography and Resource Development, University of Ghana (Legon-Accra, Ghana)** 1993  
*Long Essay:* The Role of Rural Banks in Rural Development in Ghana (1993)

## EMPLOYMENT

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<b>Assistant Professor, Department of Geography and Geology</b> Sam Houston State University (Huntsville, Texas)	2013 - Present
<b>Senior Lecturer, Director, and Computer Network Administrator of Environmental GIS and Advanced Geospatial Analysis Labs</b> Department of Geography and Environmental Resources, Southern Illinois University, (Carbondale, Illinois)	2010 - 2013
<b>Lecturer, Director, and Computer Network Administrator of Environmental GIS and Advanced Geospatial Analysis Labs</b> Department of Geography and Environmental Resources, Southern Illinois University, (Carbondale, Illinois)	2006 - 2010
<b>Instructor and Director of GIS, Department of Advanced Technologies</b> Alcorn State University (Alcorn, Mississippi)	2001 - 2006
<b>Director of GIS, Natchez-Adams County, (Natchez, Mississippi)</b>	2004 - 2005
<b>GIS and Remote Sensing Applications Specialist</b> Center for Remote Sensing and Geographical Information Services (CERSGIS) University of Ghana - Legon (Accra, Ghana)	1998 - 2000
<b>GIS and Remote Sensing Data Analyst</b> Remote Sensing Applications Unit University of Ghana - Legon (Accra, Ghana)	1994 - 1997
<b>Research and Teaching Assistant</b> Department of Geography and Resource Development, University of Ghana (Accra, Ghana)	1993 - 1994

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## PROFESSIONAL AFFILIATIONS (Membership)

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Associate Editor- International Journal of Applied Geospatial Research  
Editorial Board Member- KNUST Journal of Geography and development  
Member- Association of American Geographers (AAG)  
Member- Southwestern Division of the AAG (SWAAG)  
Member- African Specialty Group of AAG  
Member- Spatial Analytics and Informatics Core Research Collaboration Group  
Member- The Global Chicago Center of the Chicago Council on Global Affairs  
Certified CompTIA Network+ Professional  
*Reviewer:* Transactions in GIS  
*Reviewer:* Cartographica Journal  
*Reviewer:* Applied Geography  
*Reviewer:* African Geographical Review Journal  
*Reviewer:* Journal of Social Science and Medicine  
*Reviewer:* American Journal of Public Health  
*Reviewer:* International Journal of Geospatial Research  
*Grant Proposal Reviewer:* South Carolina Experimental Program to Stimulate Competitive Research and Institutional Development Awards (SC EPSCoR/IDeA)

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## ACADEMIC AWARDS

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Fellow - Carnegie African Diaspora Fellowship Program -	2018
Fellow - Carnegie African Diaspora Fellowship Program -	2017
CODESRIA Fellowship Award "Visiting Diaspora Professor"-The African Diaspora Support to African Universities	2016
Nancy and Jim Tiller Geography Faculty Research Award, Sam Houston State University	2013
Travel award to attend the International Cartographic Conference (ICC) in Dresden, Germany.	2013
1st Place Ph.D. Student Paper Competition- Association of American Geographers (AAG) West Lakes Division Annual Meeting 2010	2010
Selected as Participant to Annual Meeting - Cambridge Commonwealth Trust Meeting, Cambridge, United Kingdom, Summer 2008.	2008
Selected as Participant to SPACE workshop: GIS and Spatial Modeling for Undergraduate Social Science Curriculum, Columbus, Ohio July 10-15, 2005	2005
Selected as Participant to Proposal Writing and Participatory Research Conference: A workshop for Faculty and Graduate Students at Historically Black Colleges and Universities and Other Minority Serving Institutions, White Oak Plantation, Yulee, Florida, July 30 – Aug 1, 2004	2004
Selected as Participant NSF Workshop/Short Course in Sensor Science and Technology: Doctoral Capacity Building Program, Department of Physics, Alabama A & M University. June 8 – June 12, 2004	2004
Fellow, Cambridge Commonwealth Trust Society (1998)	1998
Scholarship to attend a workshop- Image processing and Poster Development National Remote Sensing Center, Farnborough, United Kingdom July 27 - 31 1998	1998
ODA (British Government) and President's Scholarship for Ghana (1997)	1997

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## TEACHING EXPERIENCE

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### Courses at Sam Houston State University (Current):

Graduate Level: GEOG 5373: Introduction to LIDAR and Radar; GEOG 5361: Geographic Information; GEOG 5363: Digital Image Processing; GEOG 5367: GIS Programming

Undergraduate Level: GEOG 1401: Weather & Climate; GEOG 4361: GIS for Public Health; GEOG 4365: Applied Geographic Information System

### Other Courses Taught:

GIS Courses: Digital Earth (Geospatial Techniques); Introduction to GIS, Spatial Analysis, Cartography & Geovisualization, Enterprise GIS, Advanced GIS; GIS Customization and Programming, Geospatial Databases, Internet GIS, GIS for Public Health

Remote Sensing Courses: Introduction to Remote Sensing, Advanced Remote Sensing, Digital Image Processing

Computer Courses: Computer Network Fundamentals, Microsoft Server Administration, Computer Programming Languages, Database Administration, Web Design

Regional Geography Courses: World Regional Geography; Geography of Africa

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## RESEARCH

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### *JOURNAL PUBLICATIONS* (Peer Reviewed Articles):

**Adu-Prah, S., Appiah-Opoku, S., & Aboagye, D. (2017)** Spatiotemporal evidence of recent climate variability in Ghana. *African Geographical Review*. DOI: 10.1080/19376812.2017.1404923

Aboagye, D., **Adu-Prah, S.,** Dumedah, G. (2017) Assessing social vulnerability to biophysical hazards in the Kumasi metropolis, Ghana. *GeoJournal*. DOI: 10.1007/s10708-017-9833-4

Oyana, T.J., Kayendeke, E., and **Adu-Prah, S.** 2017. Assessing performance of leaf area index in a monitored mountain ecosystem on mount Elgon-Uganda, *International Journal of Applied Geospatial Research*, 8(1): 64-80

Albert, D., Gerrish, T., and **Adu-Prah, S.** 2017 A contemporary citation analysis of geography education journals (2009-2015). *Papers in Applied Geography* 3(1) 1-13

**Adu-Prah, S.** and Tetteh, E. 2015. Spatiotemporal analysis of climate variability impacts on malaria prevalence in Ghana. *Applied Geography*, 60: 266-273

**Adu-Prah, S.** and Oyana, T.J. 2015. Regionalization of Youth and Adolescent Weight Metrics for the Continental United States Using Constrained Clustering and Partitioning (*Cartographica: International Journal of Geographic Information and Geovisualization*, 50:2: 61-70).

**Adu-Prah, S.** and Oyana, T.J. 2015. Enabling Healthy Living: Spatiotemporal patterns of prevalence of overweight and obesity among youths in the United States. *International Journal of Applied Geospatial Research*, 6(2): 98-116.

Berakhi, R.O., Tonny J. Oyana, T.J., and **Adu-Prah, S.** 2015. Land use and land cover change and its implications in Kagera river basin, East Africa, *African Geographical Review*, 34:3, 209-231, DOI: 10.1080/19376812.2014.912140

**Adu-Prah, S.** 2014. Remote Sensing: Not a panacea of Hazard Mitigation *World Geography: Understanding a Changing World*. ABC-CLIO.

Wang G., Oyana T.J., Zhang M., **Adu-Prah, S.,** Zeng S, Lin H, Se J. 2009. Mapping and uncertainty analysis of forest carbon by combining National Forest Inventory Data and Satellite Images. *Forest Ecology and Management*, 258:1275-1283.

Ofori-Sarpong, E. and **Adu-Prah, S.** 2003. Ecological region mapping of Ghana using NOAA-AVHRR NDVI data. *Ghana Social Science Journal*. Volume 2 (1). p. 32-46.

Opoku-Duah, S., Kankam Yeboah, K. & **Adu-Prah, S.** 2000. Thermal remote sensing data for estimating evapotranspiration on a Regional Scale (A conceptual approach). *Journal of Applied Science and Technology*, 5(1). pp 98-107.

Agyepong, G.T., Duadze, S.E.K., Annor, J., **Adu-Prah, S.**, Donyou, S.S.B., Tetteh, E. and Ansu, G. 1999. Land use and Land cover map of Ghana. *Technical Bulletin World Bank*. Ghana Environmental Management Project (GERMP)

**BOOK (Contributor):**

**Adu-Prah, S.** (Geographic Information System and Global Positioning Systems): In Duram, L.A. 2009. Encyclopedia of Organic, Sustainable and Local Food. Praeger: *ABC/CLIO*. Santa Barbara, CA and Oxford, England, 440 pages

**IN PREPARATION:**

**Adu-Prah, S.** Spatiotemporal analysis of malaria prevalence in Ghana 1996- 2014: Anticipated outlet: *Malaria Journal*.

Aboagye, D., & **Adu-Prah, S.** (Accepted) Assessing Social Vulnerability to Fire Hazards at the Kumasi Central Market, Ghana International Journal of Applied Geospatial Research, (301017-014634)

**Adu-Prah, S.** & Aboagye, D. Mangrove vulnerability modeling at the Volta Delta Estuary, Ghana using satellite images and GIS techniques. Anticipated publication: *Journal of Environmental Monitoring Assessment*.

Panupong, W. & **Adu-Prah, S.** Identifying Optimal Locations for Seawater Desalination Plants in the Houston Galveston Area of Texas. Anticipated outlet: *Southeastern Geographer*

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**GRANT PROPOSALS**

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**Adu-Prah, S.** 2017. **Principal Investigator:** "Carnegie African Diaspora Fellowship Program (ADF)". Geospatial technology curriculum enhancement and training for social science research. (\$14,000.00), 6/1/17- 8/10/17, **Awarded**

**Adu-Prah, S.** 2017. **Co-Principal Investigator:** "Enhanced Research Grant (ERG) 2017- Sam Houston State University". Longitudinal data analysis of contextual determinants of adolescent health in the US. (\$15,000.00). **Submitted**

**Adu-Prah, S.** 2017. **Principal Investigator:** "NSF-EEID Grant" Modeling the spatiotemporal and environmental aspects of vector-borne Plasmodium falciparum disease transmission and patterns. 9/1/2017 – 8/31/20 (\$2,401,146.00) **Not Awarded**

**Adu-Prah, S.** 2016. **Principal Investigator** "African Diaspora Support to African Universities Program: Visiting professorships in the humanities and social sciences". *Building Capacity to Support Teaching and Research in Geographic Information Science and Remote Sensing at the Department of Geography and*

*Rural Development at Kwame Nkrumah University of Science and Technology, Ghana, (\$10,000.00), 06/1/16 -08/10/16 - **Awarded***

Adu-Prah, S. 2015. Principal Investigator "Enhanced Research Grant (ERG) 2015- Sam Houston State University". *Spatiotemporal and environmental modeling of malaria in Ghana*. 06/1/15 – 05/31/16 (\$15,000.00). **Awarded**

Adu-Prah, S. 2014. Principal Investigator "National Geographic Society's Expeditions Council Pre-Application Proposal": *An exploration into the impact of artisanal and small-scale gold mining in Ghana*. (\$25,000.00) February 2014. **Not Awarded**

Adu-Prah, S. 2014. Principal Investigator "Faculty Research Grant (FRG) 2014- Sam Houston State University": *Spatiotemporal patterns of obesity among youths in Texas*. (\$5,000.00). PI: **Not Awarded**

Adu-Prah, S. 2011. Principal Investigator - *Undergraduate Tuition Surcharge for Technology Award, Southern Illinois University- Carbondale*, 2010-2011- \$ 8,363.04. **Awarded**

Adu-Prah, S. 2007. Co-Principal Investigator "USDA CSREES Capacity Building Grant" *Building Human Capacity and Enhancing Watershed Research at Alcorn State University*. 10/1/04 – 10/1/07- \$299,924.00. **Awarded**

Adu-Prah, S. 2006. Principal Investigator "NASA Grant" *Enhancing and Increasing Geographic and Earth Science Education for K-12 Educators in South Western Mississippi*. 08/1/05 – 09/15/06- \$150,000.00. **Awarded**

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#### CONFERENCE PROCEEDINGS AND PROFESSIONAL MEETINGS

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Adu-Prah, S., **Keynote Speaker** - 1<sup>st</sup> International Conference on Geography and Development –INCOGaD -2018 on "**Climate Change and Sustainable Development**" held at Kwame Nkrumah University of Science and Technology (KNUST), Kumasi- Ghana 25-27 July, 2018.

Adu-Prah, S., Appiah-Opoku, S., & Aboagye, D. 2017. Spatiotemporal evidence of recent climate variability in Ghana. *Southwest Division of the American Association of Geographers (SWAAG)*, Huntsville, Texas, October 25-28, 2017

Adu-Prah, S. 2017. Biophysical impact on malaria outbreaks in diverse agro-ecological zones in Ghana. *Paper presented –Association of American Geographers 2017 Annual Meeting*, Boston, Massachusetts, April 5 - April 9, 2017.

Adu-Prah, S. 2016. Analysis of malaria prevalence in a transition agro-ecological zone of Ghana. *The 39th Applied Geography Conference*, Louisville, Kentucky, October 26-29, 2016

Adu-Prah, S. 2016. Spatial synchrony of malaria outbreaks in an agro-ecological transitional region of Ghana. *Paper presented –Association of American Geographers 2016 Annual Meeting*, San Francisco, California, March 29 - April 2, 2016.

Adu-Prah, S. 2015. Spatial vulnerability analysis of malaria prevalence in Ghana, *Paper presentation-AAG 2015 Annual Meeting*, Chicago, Illinois, April 21-25, 2015.

- Adu-Prah, S.** 2015. Climate variability impacts on malaria prevalence in Ghana: Spatiotemporal Analysis. The *7th Annual Medicine and the Humanities and Social Sciences Conference*, Sam Houston State University College of Humanities and Social Sciences, Huntsville, Texas, March 4-5, 2015
- Adu-Prah, S** and Tetteh, E. 2014. Spatiotemporal analysis of climate variability impacts on malaria prevalence in Ghana at the *37th Applied Geography Conference*, Atlanta, Georgia, October 15-17, 2014.
- Adu-Prah, S** and Oyana, T. Regionalization of Youth and Adolescent Weight Metrics for the Continental United States Using Constrained Clustering and Partitioning, *Paper presentation-AAG 2014 Annual Meeting*, Tampa, Florida
- Adu-Prah, S.** and Oyana, T. 2013. Enabling Healthy Living: Spatiotemporal Patterns of Overweight and Obesity among Youths in the United States. *Environmental Health 2013 Conference*, 3-6 March Boston, MA.
- Adu-Prah, S.** and Oyana, T. 2011. Geographic disparities of overweight and obesity prevalence among the youth using a longitudinal data for the United States 1997–2004, *Paper presentation-AAG 2011 Annual Meeting*, Seattle, Washington.
- Adu-Prah, S.** and Oyana, T. 2009. Analysis of geographic clusters and disparities in childhood and adolescent obesity in the United States, *Paper presentation-AAG 2009 Annual Meeting*, Las Vegas, NV
- Wang, G., Oyana, T. and **Adu-Prah, S.** 2008. A Methodology for Mapping and Uncertainty Analysis of Forest Carbon by Combining Image and National Forest Inventory and Analysis Data" *Paper presented by Guangxing Wang in American Society for Photogrammetry and Remote Sensing*, April 28- May 2, 2008 Portland, Oregon.
- Adu-Prah, S.**, Young, D., Johnson, A.B., and Mayfield, R., 2005. Integrating Geospatial and Temporal Data for Water Quality Monitoring in Southwest Mississippi. *Proceedings in 31st International Symposium on Remote Sensing of Environment*, Saint Petersburg, June 2005, Russian Federation.
- Adu-Prah, S.** and Ofori Sarpong, E. 2000. Ecological region mapping of Ghana using NOAA-AVHRR NDVI Data. *Proceedings in 28th International Conference in Remote Sensing of the Environment*, Cape Town, March, 2000 South Africa.
- Adu-Prah, S.** 2000. Assessment of Image processing techniques using Optical and SAR data for Mangrove Forest Mapping in the Volta Estuary, Ghana. *Proceedings in 28th International Conference in Remote Sensing of the Environment*, Cape Town 2000, South Africa.

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## GRADUATE STUDENT ADVISING AND SUPERVISION

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- Lindsey Aucoin (2018) *Coastal landscape monitoring and evaluation using remote sensing techniques*. Masters Thesis for Applied GIS Program, Sam Houston State University. (Major Advisor)
- Hoffpauir, David R. (2017) *GIS analysis of current and historical vegetation communities in Southeast Texas*. Masters Thesis for Applied GIS Program, Sam Houston State University. (Major Advisor)
- Wichan, Panupong (2015) *Using GIS to identify optimal locations for seawater desalination plant in Houston-Galveston area, Texas*. Masters Thesis for Applied GIS Program, Sam Houston State University. (Major Advisor)



- Wilkins, Christopher (2016). A threat analysis of optimal habitat growth of *Aedes Albopictus* under various scenarios of global climate change. Masters Thesis for Applied GIS Program, Sam Houston State University. (Committee member)
- Guetchine, Gaspard. 2013. *Flood Loss Estimate Model: Recasting Flood Disaster Assessment and Mitigation for Haiti, the Case of Gonaives*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Shah, Kushendra N. 2013 *Multi-Scale Mapping and Accuracy Assessment of Leaf Area Index for Vegetation Study in Southern Illinois*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Deidra, Davis D. 2012. *Access to Fresh Foods: Socio-Economic Characteristics of Illinois Farmers' Markets Participating in Government Funded Food Assistance Programs*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Ravi, Dhungel. 2012. *Web Mapping and Application Towards a Cloud: Enabling a Web GIS Prototype in an Open Source Environment*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Weston, William C. 2012. *A Spatial Analysis of Invasive Breast Cancer Clusters in Association with Environmental Risk Factors: Illinois 1996 to 2000*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Barro, Alassane S. 2011. Using Geographic Information Systems for Onchocerciasis Control in Africa: Case of Ghana and Burundi. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Lewis, Patrici. 2011. Using a GIS-Based Approach and Wind Rose to Determine Runway Effectiveness and Study the Impacts of O'Hare Chicago International Airport. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Longbucco, Nicholas. 2010. *Impacts of Small Water Bodies on the Hydrological Response of Small Agricultural Watersheds*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Singer, Steven. 2010. *Assessment of Cumulative Training Impacts for Sustainable Military Land Carrying Capacity & Environment: Quantifying Quality of Environment & Landscape*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Burks, Tawane. 2009. *A Critical Evaluation of GIS Enterprise Model for a Medium-Sized City: A Case of Louisville, Kentucky*. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).
- Flaherty, Daniel K. 2008. Assessing Barriers to the Implementation of GIS Technology in Precision. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (Committee member).



Malik, Yousif. 2008. Effectiveness of Urban & Rural Water Infrastructure Systems in Watershed. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (*Committee member*)

Paiboonvorachat, Chamaporn. 2008 Using Remote Sensing and GIS Techniques to Assess Land Use/land Cover changes in the Nan Watershed, Thailand. Masters Thesis for Department of Geography and Environmental Resources, Southern Illinois University (*Committee member*)

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## SERVICE ACTIVITY

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### International-Level Service:

**Associate Editor:** International Journal of Applied Geospatial Research, IGI Publishing

**Secretary:** African Specialty Group – American Association of Geographers

**Member:** Editorial Board. Kwame Nkrumah University of Science and Technology Journal of Geography and Development.

**Council Chairman-** Mount View College, Dunkwa-on-Offin, Central Region, Ghana

**Research Group Member:** *Spatial Analytics and Informatics Core Research Collaboration Group* "Advancing spatial analytical methods, tools, and strategies for big geospatial data and data science. College of Medicine, University of Tennessee, Health Science Center.

### College-Level Service:

**International Transcript Evaluator:** College of Science and Engineering Technology Graduate School, Sam Houston State University

**Member:** Dean's Committee on Proposal for Environment Science Program, College of Sciences, Sam Houston State University, 2013.

**Member:** Search Committee- Faculty – Environmental Science Program Recruitment

### Departmental Service:

**Member:** Local Host Committee -Sam Houston State University for SWAAG 2017

**Member:** Graduate Curriculum Committee- MS Program in GIS, Sam Houston State University, 2013 – Present.

**Member:** Undergraduate Curriculum Committee- Geography Programs, Sam Houston State University, 2013 – Present.

**Contributor:** Department of Geography and Geology Newsletter, Sam Houston State University, 2013 – Present

**Member:** Undergraduate Curriculum Committee, GIS Concentration, Southern Illinois University, Carbondale, 2007 – 2013.

### Service to Community:

**Volunteer and Member,** NH-PIWC, Houston, Texas (2016 – Present).

**Active Volunteer**, United Nations Volunteer Group, (2013 – Present).

**Youth Soccer Coach**, Carbondale Youth Soccer, (2006 – 2013).

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## **COMPUTER LITERACY**

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### **Programming Languages:**

C, C++, Visual Basics Application, Python, .Net, PHP, R,

### **GIS and Remote Sensing Systems:**

Environmental Systems Research Institute (ESRI) ArcGIS suites, IDRISI, MapInfo, ERDAS Imagine, ENVI, ERMapper, AutoCAD, Freehand, Open source GIS programs.

### **Statistical Packages:**

R, SAS, Matlab, S-Plus, SPSS, Minitab, and G+

### **Operating Systems:**

Windows, UNIX, and MAC

### **Database and Spreadsheet:**

Microsoft Excel, Microsoft Access, Dbase, and IBM Oracle.

### **Word Processing:**

Microsoft Office Professional Suite

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## **PROFESSIONAL REFERENCES**

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### **Upon Request**

Name: Samuel Adu-Prah, PhD.

B.A (Hons) Geography and Environmental Resources

MPhil in Geography-GIS and Remote Sensing

PhD – Graduate courses taken - transcript: (Weather and Climate Related Courses):

- ERP 500 – Physical, Biological, & Environmental Systems
- ERP 501 – Economic Systems and Environment Change
- ERP 502- Environmental Decision Making
- ERP 595 – Seminar GIS & Environmental Modeling
- ERP 598 – Application of Environmental Resource Policy
- CS 533 – Data Mining and Applications (Environment)

Current Research Publications in peer-reviewed journals related to Weather and Climate:

Adu-Prah, S., Appiah-Opoku, S., & Aboagye, D. (2017) Spatiotemporal evidence of recent climate variability in Ghana. African Geographical Review. DOI: 10.1080/19376812.2017.1404923

Aboagye, D., Adu-Prah, S., Dumedah, G. (2017) Assessing social vulnerability to biophysical hazards in the Kumasi metropolis, Ghana. GeoJournal. DOI: 10.1007/s10708-017-9833-4

Oyana, T.J., Kayendeke, E., and Adu-Prah, S. 2017. Assessing performance of leaf area index in a monitored mountain ecosystem on mount Elgon-Uganda, International Journal of Applied Geospatial Research, 8(1): 64-80

Berakhi, R.O., Tonny J. Oyana, T.J., and Adu-Prah, S. 2015. Land use and land cover change and its implications in Kagera river basin, East Africa, African Geographical Review, 34:3, 209-231, DOI: 10.1080/19376812.2014.912140

Adu-Prah, S. and Tetteh, E. 2015. Spatiotemporal analysis of climate variability impacts on malaria prevalence in Ghana. Applied Geography, 60: 266-273

Keynote Speaker - 1st International Conference on Geography and Development –INCOGaD -2018 on “Climate Change and Sustainable Development” held at Kwame Nkrumah University of Science and Technology (KNUST), Kumasi- Ghana 25-27 July, 2018.