

CURRICULUM VITAE OF KOFI AKAMANI

PROFESSIONAL AFFILIATION AND CONTACT INFORMATION

Forestry Program
College of Agricultural, Life, and Physical Sciences
Southern Illinois University
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EDUCATION

Ph.D. Natural Resource Sciences (with specialization in conservation social science):
University of Idaho, Moscow, Idaho, U.S.A. (05-2011)

- Dissertation topic: Community Resilience to Drivers of Change: An Analysis of Community and Household Participation in the Collaborative Forest Management Program of Ghana

MPhil Culture, the Environment and Sustainability: University of Oslo, Norway (06-2006)

- Thesis topic: Management of Urban Green Spaces in Kumasi, Ghana

BSc. Planning (with specialization in urban planning): Kwame Nkrumah University of Science and Technology (K.N.U.S.T.), Kumasi, Ghana (07-2003)

PROFESSIONAL EXPERIENCE

Professor of Forest Recreation and Conservation Social Science: Forestry Program, Southern Illinois University (07-2024 to present)

Director of Agricultural Sciences Ph.D. Program, Southern Illinois University (05-2024 to present)

Director of Graduate Study, Forestry Program, Southern Illinois University (08-2021 to present)

Associate Professor of Forest Recreation and Conservation Social Science: Forestry Program, Southern Illinois University (08-2020 to 06-2024)

Assistant Professor of Forest Recreation and Conservation Social Science: Department of Forestry, Southern Illinois University (08-2014 to 06-2020)

Visiting Assistant Professor: Department of Forestry, Southern Illinois University (08- 2011 to 07-2014)

Teaching/Research Assistant: Department of Conservation Social Sciences, University of Idaho (01-2007 to 05-2011)

Teaching/Research Assistant: Department of Planning, K.N.U.S.T, Kumasi, Ghana (09-2003 to 07-2004)

RESEARCH INTERESTS

Human dimensions of natural resource management; resource-dependent community sustainability; protected areas and recreation planning; resilience and vulnerability in social-ecological systems; adaptive governance of forests and water resources; natural resource planning and policy analysis; interdisciplinary research; mixed methods research

PUBLICATIONS AND WORKS IN PROGRESS

Shalizi, M. N., Khurram, S., Malikzad, S. A., Omerkhil, N., Sajad, N., Sadat, M. Y., Akamani, K., & Groninger, J. W. (in review). Exploring the role of agroforestry in building resilient livelihoods: A case study of Parwan Province, Afghanistan. *Trees, Forests and People*.

Balgopal, N., Cooley, J., Akamani, K., Barry, N., Frantz, C., Helmuth, B., van Riper, C., & Weinburg, A. (in review). Status, trends and future projections of nature. In Levin et al. (in preparation). *United by Nature (formerly First National Nature Assessment)*.

Kenny, M., Kopp, R., Samaras, C et al. (in review). What a robust, evidence-based United States climate assessment needs. *Earth's Future*.

Dunnett, S., Lavorel, S., Aguiar, S., Akamani, K., Handa, C., Hill, S., Lee, K-C., Melo, F., Rai, K. K., Samoilys, M., Sidivas, D., Macova, K., Locatelli, B., Quetier, F., Campese, J., Cordone, G. F., Degele, P. E., Dorne-Bonnefoy, M., Karim, P. G., Kharrazi, A., Phang, S. C., Rincon-Diaz, M. P., Vallet, A., Herrero, M., Ricketts, T., Harrison, P. A., McElwee, P. D., van Huysen, T. L., & Roldan, V. A. (in review). Biodiversity response options to address the water-food-health-climate change nexus. *Npj Biodiversity*.

Gurevitch, J., Vidal, O., Akamani, K., Fei, S., Hoffman, F. M., & Lerdau, M. (in review). What good are trees? *Proceedings of the National Academy of Sciences*.

Bowser, G., Stotts, A., Akamani, K., Benini, L., Clarke, J., Cools, J., Fanciulli, L., Fletcher, S., Green, S., Hakkinen, H., Ho, S. (2025). Chapter 8: Western Europe and Other States Group. In Gutierrez-Espeleta, E., Madise, N., Watson, R., & Wang, Y. (eds). *Global Environment Outlook 7*. Nairobi, Kenya: United Nations Environment Programme.

Allen, C., Akamani, K., Carmenta, R., Das, S., Delgado-Serrano, M., Dhyani, S., Djenontin, A., Ferreira, J., Larson, A. M., McGinley, K., Nepal, M., and Ameyaw, L. (2025). Chapter 1: Introduction. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Bowser, G., Akamani, K., Balgopal, M. M., Coley, J. D., Diaz-Clark, E. D., Funk, W. C., Helmuth, B., Henriques, S., Grant-Hoffman, N., Osborne, T., Seshadri, A., Templer, P. H., Urban, M. C., and Wandell, K. (2025). Assessing nature: Perceptions, knowledge, and gaps. *Frontiers in Ecology and the Environment*, 23(3): e2846.

Allen, C., Carmenta, R., Rocha, J., Akamani, K., Das, S., Ameyaw, L., and Garmestani, A. (2025). Resilience framing for forest social-ecological systems. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Allen, C., Akamani, K., Carmenta, R., Das, S., Delgado-Serrano, M., Dhyani, S., Djenontin, A., Ferreira, J., Izquierdo-Tort, S., McGinley, K., and Nepal, M. (2025). Forests for social and economic resilience. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Djenontin, A., Larson, A., Carmenta, R., Delgado-Serrano, M., Dhyani, S., McGinley, K., Pulhin, J.M., Akamani, K., Nepal, M., and Das, S. (2025). The analysis of forest governance and institutions for social and economic resilience. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Ferreira, J., Izquierdo-Tort, S., Akamani, K., Carmenta, R., Delgado-Serrano, M., Dhyani, S., Djenontin, A., and Nepal, M. (2025). Relationships between forests and social and economic resilience. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Carmenta, R., McGinley, K., Akamani, K., Allen, C., Delgado-Serrano, M., Djenontin, I., Duchelle, A., Larson, A., and Libert, A. (2025). Options for enhancing the contributions of forests to social and economic resilience. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Akamani, K., Allen, C., Das, S., Pulhin, J. M., Rocha, J., Bhattarai, M., and Libert, A. (2025). Assessing resilience in forest SES. In Allen, C., Grima, N., Belohrad, V., and Fisher, B. (eds.). *Forests for social and economic resilience*. IUFRO World Series, Volume 45. International Union of Forest Research Organizations, Vienna, Austria.

Alonso Roldán, V., Lavorel, S., Aguiar S., Akamani K., Dunnett, S., Handa, C., Hill, S., Lee, K.-C., Mácová, K., Melo, F., Rai, K. K., Samoilys M., and Sivadas, D. (2024). Chapter 5.1: Options for delivering sustainable approaches to biodiversity conservation, restoration and sustainable use. In: *Thematic Assessment Report on the Interlinkages among Biodiversity, Water, Food and Health of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services*. Harrison, P. A., McElwee, P. D., and van Huysen, T. (eds.). IPBES secretariat, Bonn, Germany.

Khurram, S., Shalizi, M. N., Basharin, M., Akamani, K., & Groninger, J. (2024). Barriers and opportunities towards community-based forest management in Afghanistan. *Biological Conservation*, 51(1), 6-16.

Ricketts, T. H., Herrero, M., Smith, P., Alonso Roldán, V., Barrios, E., Dasgupta, P., DeClerck, F., Kumar, R., McFarlane, R. A., Paukert, C., Singh, P. K., Lavorel, S., Aboubakrine, M. W. M., Aguiar S., Akamani, K., Benedek, Z., Campbell, D., Castro-Díaz, R., Chaplin-Kramer, R., Cherubini, F., das Neves, C. G., De La Cruz, P., Díaz-José, J., Dunnett, S., Santos, M. J., Gupta, H., Gyawali, D., Handa, C., Hill, S., Hori, M., Ito, A., Joshi, G. R., Keune, H., Khan, S., Koltz, A. M., Kouame, A. A., Kuiken, T., Lalika, M., Lee, K.-C., Llope, M., Mácová, K., Melo, F., Milano, F. A., Minaverri, C. M., Morand, S., Mustafa, M. A., Oinonen, S., Rafa, N., Rai, K. K., Reuben, R. C., Rosado-May, F. J., Samoilys M., Sandin, L., Simatele, M. D., Sivadas, D., Spierenburg, M., Tirado, M. C., Twongyirwe, R., Vale, M. M., Williams, D. R., Xu, X., and van Huysen, T. L. (2024). Chapter 5: Options for delivering sustainable approaches. In: *Thematic Assessment Report on the Interlinkages among Biodiversity, Water, Food and Health of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services*. Harrison, P. A., McElwee, P. D., and van Huysen, T. L. (eds.). IPBES secretariat, Bonn, Germany.

McElwee, P. D., Carter, S. L., Hyde, K. J. W., West, J. M., Akamani, K., Babson, A. L., Bowser, G., Bradford, J. B., Costanza, J. K., Crimmins, T. M., Goslee, S. K., Hamilton, S. K., Helmuth, B., Hoagland, S., Hoover, F-A. A., Hunsicker, M. E., Kashuba, R., Moore, S. E., Munoz, R. C., Shrestha, G., Uriarte, M., Wilkening, J. L. (2023). Chapter 8: Ecosystems, ecosystem services, and biodiversity. In: Crimmins, A. R., Avery, C. W., Easterly, D. R., Kunkel, K. E., Stewart, B. C., Maycock, T. K. (eds). *Fifth National Climate Assessment: Risks, Impacts, and Responses*. Washington DC: United States Global Change Research Program.

Khurram, S., Larawai, M. I., Shalizi, M. N., Akamani, K., & Groninger, J. W. (2023). Assessing regeneration strategies for sustaining intensively used chilgoza pine-dominated community forests in Afghanistan. *Trees, Forests and People*, 14, 100443

Pease, B., Gilbert, N., Casola, W., & Akamani, K. (2023). The Steller's Sea-Eagle in North America: An economic assessment of birdwatchers traveling to see a vagrant raptor. *People and Nature*. DOI: 10.1002/pan3.10527.

Akamani, K. (2023). The roles of adaptive water governance in enhancing the transition towards ecosystem-based adaptation. *Water*, 15, 2341.

Akamani, K. (2023). Path dependence, community resilience, and social responses to the implementation of collaborative forest management in Ghana. *International Journal of the Commons*, 17(1), 22-36.

Mahmoodi, M. B., Shalizi, M. N., Groninger, J. W., Akamani, K., & Khurram, S. (2023). Stand characteristics and perceptions of local communities on the management of pistachio (*Pistacia vera* L.) forests in an unstable region of Afghanistan. *Journal of Sustainable Forestry*, 42(2), 170-188.

Akamani, K. (2021). An ecosystem-based approach to climate-smart agriculture with some considerations for social equity. *Agronomy*, 11(18), 1564.

Plecki, A., Akamani, K., Groninger, J. W., Brenner, J. C., & Gage, K. L. (2021). Homeowner perceptions and responses to buffelgrass invasion risk in the Tucson, Arizona Wildland-Urban Interface. *Heliyon*, 7(5), e07040.

Akamani, K. (2020). Integrating deep ecology and adaptive governance for sustainable development: Implications for protected areas management. *Sustainability*, 12(14), 5757.

Shalizi, M. N., Khurram, S., Groninger, J. W., Akamani, K., & Morissey, R. C. (2020). Redbud woodlands conservation status in Afghanistan: Implications for sustaining vulnerable ecosystems under multiple drivers of change. *Global Ecology and Conservation*, 22, e00942.

Mundia, C., Secchi, S., Akamani, K., Wang, G. (2019). A regional comparison of factors affecting global sorghum production: The case of North America, Asia, and Africa's Sahel. *Sustainability*, 11, 2135.

Akamani, K., & Hall, T. (2019). Scale and co-management outcomes: Assessing the impact of collaborative forest management on community and household resilience in Ghana. *Heliyon*, 5(1), e01125.

Akamani, K., & Holzmüller, E. J. (2017). Socioeconomic and policy considerations in the adoption of agroforestry systems: An ecosystem-based adaptive governance approach. In Dagar, J. C., & Tewari, V. P. (eds.), *Agroforestry*. Springer Nature, Singapore, pp. 833-855.

Akamani, K. (2016). Adaptive water governance: Integrating the human dimensions into water resource governance. *Journal of Contemporary Water Research and Education*, 158, 2-18.

Akamani, K. (2016). Social-ecological resilience, adaptive governance and agroforestry in a world of uncertainty. In Dagar, J. C., & Tewari, J. C. (eds.), *Agroforestry research developments*. Hauppauge, NY: Nova Science Publishers, pp. 546-559.

Akamani, K. (2016). Toward ecosystem-based adaptation to climate change in West Africa: The potential contributions of non-governmental organizations. In Yaro, J. A., & Hesselberg, J. (eds.), *Adaptation to climate change and variability in West Africa*. Switzerland: Springer International Publishing, pp. 191-213.

Akamani, K. (2016). Using adaptive governance to enhance transitions toward sustainable and resilient energy systems. *Journal of Social Sciences*, 49(3), 183-194.

Akamani, K., Holzmüller, E., & Groninger, J. W. (2016). Managing wicked environmental problems as complex social-ecological systems: The promise of adaptive governance. In Melesse, A. & Abtew, W. (eds.), *Landscape dynamics, soil and hydrological processes in varied climates*. Springer Geography, pp. 741-762.

Behnken, J., Groninger, J. W., & Akamani, K. (2016). Institutional constraints to collaborative ecosystem management within a wetlands conservation partnership. *Journal of Contemporary Water Research and Education*, 158, 19-33.

Floress, K., Akamani, K., Halvorsen, K. E., Kozich, A., & Davenport, M. (2015). The role of social science in successfully implementing watershed management strategies. *Journal of Contemporary Water Research and Education*, 154, 85-105.

Akamani, K., Wilson, I. P. & Hall, E. T. (2015). Barriers to collaborative forest management and implications for building the resilience of forest-dependent communities in the Ashanti Region of Ghana. *Journal of Environmental Management*, 151, 11-21.

Akamani, K., & Hall, E. T. (2015). Determinants of the process and outcomes of household participation in collaborative forest management in Ghana: A quantitative test of a community resilience model. *Journal of Environmental Management*, 147, 1-11.

Akamani, K. (2014). Beyond panaceas in land tenure systems in Ghana: Insights from the adaptive governance of social-ecological systems. In Asuelime, L., Yaro, A. J. & Francis, S. (eds.), *Selected themes in African development studies: Economic growth, governance and the environment, Volume II*. New York: Springer, pp. 79-93.

Akamani, K. (2014). Building social-ecological resilience through adaptive co-management in the Cache River Watershed of Southern Illinois. Peer-reviewed manuscript in Groninger, J. W., Holzmüller, E. J., Nielsen, C. K. & Dey, D. C. (eds.), *Proceedings 19th Central Hardwood Forest Conference*. USDA Forest Service Northern Research Station. General Technical Report NRS-P-142.

Akamani, K. (2014). Challenges in the transition toward adaptive water governance. In Imtaez, M. A. (ed.), *Water conservation: Practices, challenges and future implications*. Hauppauge, NY: Nova Science Publishers, Inc., pp. 165-178.

Akamani, K. (2013). Transitions toward adaptive water governance: The case of the Cache River watershed in Southern Illinois, U.S.A. In Daniels, J. A. (ed.), *Advances in Environmental Research: Volume 28*. Hauppauge, NY: Nova Science Publishers, Inc., pp. 195-206.

Akamani, K. (2012). A community resilience framework for understanding and assessing the sustainability of forest-dependent communities. *Human Ecology Review*, 19(2), 99-109.

Akamani, K., & Wilson, I. P. (2011). Toward the adaptive governance of transboundary water resources. *Conservation Letters*, 4(6), 409-416.

REPORTS AND CONFERENCE PROCEEDINGS

McElwee, P., Carter, S. L., Hyde, K., West, J. M., Akamani, K., Babson, A. L., Bowser, G., Bradford, J. B., Costanza, J. K., Crimmins, T. M., Goslee, S., Hamilton, S. K., Helmuth, B., Hoover, F-A., Hoagland, S., Hunsicker, M., Moore, S., Kashuba, R., Munoz, R., Shrestha, G., Uriarte, M., Wilkening, J., Grade, A. (2023). Ecosystems, Ecosystem Services, and Biodiversity

– The Fifth National Climate Assessment. Peer-reviewed abstract in: *American Geophysical Union Fall 2023 Meeting Abstracts*.

Akamani, K. (2022). Evaluating the impacts of collaborative forest management on the resilience of resource-dependent communities: Implications for climate smart forestry assessment. Peer-reviewed abstract in: *American Geophysical Union Fall 2022 Meeting Abstracts*, pp. SY36A-08.

Akamani, K., & Lood, M. (2022). Barriers and opportunities for ecosystem-based adaptation to climate change impacts in the Cache River watershed of southern Illinois. Peer-reviewed abstract in: *Book of abstracts of the 2022 UCOWR/NIWA Annual Conference*, June 14-16, 2022, Charleston, South Carolina.

Bieri, R., & Akamani, K. (2022). Assessing general and specified resilience in resource-dependent communities: A case study of the Cache River watershed of southern Illinois. Peer-reviewed abstract in: *Book of abstracts of the 2022 UCOWR/NIWA Annual Conference*, June 14-16, 2022, Charleston, South Carolina.

Akamani, K. & Floress, K. (2020). *Moving past conflict on the Shawnee National Forest: Planning for a resilient southern Illinois*. Final report submitted to USDA Forest Service Northern Research Station, Evanston, IL.

Akamani, K. (2019). Understanding and addressing the human dimensions of the food-energy-water nexus: An adaptive governance approach. Peer-reviewed abstract in: *Proceedings of the 2018 UCOWR/NIWR Annual Conference*, June 26-28, 2019, Pittsburgh, Pennsylvania.

Akamani, K. & Hancock, J. (2019). Evolving water governance mechanisms for managing wicked environmental problems in the Cache River watershed of southern Illinois. Peer-reviewed abstract in: *Proceedings of the 2018 UCOWR/NIWR Annual Conference*, June 26-28, 2019, Pittsburgh, Pennsylvania.

Boucher, R., & Akamani, K. (2019). Water governance and community resilience: A case study of two resource-dependent communities in the Cache River watershed of southern Illinois. Peer-reviewed abstract in: *Proceedings of the 2018 UCOWR/NIWR Annual Conference*, June 26-28, 2019, Pittsburgh, Pennsylvania.

Akamani, K. (2018). Assessing the impacts of agroforestry on community and household resilience in Africa: An analysis of the Modified Taungya System in Ghana. Peer-reviewed abstract in: Kassem, M. A., Walters, A., Midden, K., & Meksem, K. (eds.), *Proceedings of the Fourth International American Moroccan Agricultural Sciences Conference – AMAS Conference IV*, May 9-11, 2018, Meknes, Morocco. *Atlas Journal of Biology*, 446-447.

Hancock, J. & Akamani, K. (2017). Understanding the emergence of adaptive water governance: A case study of the Cache River watershed of southern Illinois. Peer-reviewed abstract in: *Proceedings of the 2017 UCOWR/NIWR Annual Conference “Water in a Changing World,”* June 13-15, 2017, Fort Collins, Colorado.

Sheely, R., & Akamani, K. (2017). Water governance and community sustainability: Evaluating the impact of the Joint Venture Partnership on the resilience of communities in the Cache River watershed. Peer-reviewed abstract in: *Proceedings of the 2017 UCOWR/NIWR Annual Conference "Water in a Changing World,"* June 3-17, 2017, Fort Collins, Colorado.

Akamani, K. (2016). Adaptive water governance and evolving planning theories. Peer-reviewed abstract in: *Proceedings of the 2016 UCOWR/NIWR Annual Water Resources Conference,* June 21-23, 2016, Pensacola Beach, Florida.

Akamani, K. (2016). Adaptive water governance for transformational adaptation to climate change. Peer-reviewed abstract in: *Proceedings of the 2016 UCOWR/NIWR Annual Water Resources Conference,* June 21-23, 2016, Pensacola Beach, Florida.

Akamani, K., Gage, K., Gagnon, K., Hexmoor, H., Jones, K., Nsofor, E., & Wang, L. (2016). *Transition towards sustainable and resilient agricultural systems for food, energy and water security.* Unpublished final report on Elevating Research 1.0, College of Agricultural Sciences, Science and Engineering, Southern Illinois University, Carbondale, Illinois, pp. 5.

Akamani, K. (2016). An instrument for assessing the impact of co-management on the resilience of forest-dependent communities. Peer-reviewed abstract in: *Proceedings of the 2015 Society of American Foresters Annual Convention, Journal of Forestry,* 114(2), 256.

Akamani, K. (2015). Adaptive water governance: A framework for integrating the human dimensions into water resource governance in the face of uncertainty. Peer-reviewed abstract in: *Proceedings of the 2015 UCOWR/NIWR/CUAHSI Annual Conference "Water is not for Gambling: Utilizing Science to Reduce Uncertainty,"* June 16-18, 2015, Henderson, Nevada.

PAPERS PRESENTED AT SCHOLARLY MEETINGS

Rodriguez, B. L., & Akamani, K (2025). *Mobilizing the scientific community to support KMGBF implementation action.* Session organized at the 2025 Convention on Biological Diversity's Subsidiary Body on Scientific, Technical and Technological Advice (CBD-SBSTTA) meeting, Panama City, Panama (October 20-24).

Bhattarai, M., & Akamani, K. (2025). *Community forestry and rural community resilience: Insights from Nepal's community forestry program.* Paper presented at the 2025 Rural Renewal Symposium, Woodward, OK (November 3-5).

Akamani, K. (2025). *Understanding the complexity of forest-dependent rural community sustainability.* Invited paper presented at the American Association for the Advancement of Science 2025 Annual Meeting, Boston, MA (February 13-15).

Akamani, K., Cavender-Bares, J., Fox, J., Hampton, S., Perch, L., & Reed, J. (2024). *Science-based integrated forest management for enhanced biodiversity, human well-being and climate change resilience*. Session presented at the Science-Policy Forum at the United Nations Biodiversity Conference COP 16, Cali, Colombia (October 26-27).

McElwee, P., Carter, S. L., Hyde, K., West, J. M., Akamani, K., Babson, A. L., Bowser, G., Bradford, J. B., Costanza, J. K., Crimmins, T. M., Goslee, S. C., Hamilton, S. K., Helmuth, B., Hoagland, S., Hoover, F-A. A., Hunsicker, M. E., Kashuba, R., Moore, S. E., Munoz, R. C., Shrestha, G., Uriarte, M., Wilkening, J., Grade, A. (2023). *Chapter 8 – Ecosystems, ecosystem services, and biodiversity – The Fifth National Climate Assessment*. Poster presented at the American Geophysical Union Fall Meeting, San Francisco, California (December 11-15).

Bieri, R., & Akamani, K. (2023). Community response to floods in the Cache River watershed of southern Illinois: Application of a proposed framework for assessing general and specified community resilience. Paper presented at the 2023 UCOWR/NIWR Annual Conference, Fort Collins, CO (June 13-15)

Fadzayi, M., Ahiablame, L., Akamani, K., Bartolome, J., Becchetti, T., Duncan, R., Fulford, A., Gordon, P., Hopkins, P., Motamed, K., & Stoddard, G. (2023). *Rangeland conversion drivers and impacts of post-conversion management strategies on landscape level ecosystem health*. Paper presented at the Society for Range Management Annual Meeting, Biose, ID (February 12-16)

Casola, W.R., Pease, B.S., Gilbert, N.A., Akamani, K. (2023). *Rare bird alert: An economic assessment of birdwatchers traveling to see the Stellers' Sea Eagle in New England*. Paper presented at the Southern Environment and Recreation Conference, Asheville, NC (March 26-28)

Akamani, K. (2022). *Evaluating the impacts of collaborative forest management on the resilience of rural forest-dependent communities: Implications for climate smart forestry assessment*. Paper presented at the American Geophysical Union 2022 Fall Meeting, Chicago, Illinois (December 12-16).

Akamani, K., & Lood, M. (2022). *Barriers and opportunities for ecosystem-based adaptation to climate change impacts in the Cache River watershed of southern Illinois*. Paper presented at the 2022 UCOWR/NIWA Annual Conference, Charleston, South Carolina (June 14-16).

Bieri, R., & Akamani, K. (2022). *Assessing general and specified resilience in resource-dependent communities: A case study of the Cache River watershed of southern Illinois*. Paper presented at the 2022 UCOWR/NIWA Annual Conference, Charleston, South Carolina (June 14-16).

Akamani, K. & Lood, M. (2021). *Adaptive water governance and transitions toward ecosystem-based adaptation: A case study of the Cache River watershed of southern Illinois*. Paper presented at the 2021 UCOWR/NIWR Annual Conference, Charleston, South Carolina (June 26-28).

Akamani, K. & Boucher, R. (2021). *Transitions in water governance and implications for the resilience of resource-dependent communities: A case study of the Cache River watershed of southern Illinois, USA*. Paper presented at the International Association for the Study of the Commons (IASC) 2021 Water Commons Virtual Conference (May 19 – 21)

Akamani, K. (2021). *Adaptive water governance and the food-energy-water nexus*. Paper presented at the National Council on Science and the Environment (NSCE) 2021 Annual Conference (January 5 – 8).

Akamani, K. & Boucher, R. (2020). *Linking water governance and community resilience: A case study of the Cache River watershed of southern Illinois*. Paper presented at the Illinois Innovation Network Research Conference on Sustainability, Eastern Illinois University (October 29).

Akamani, K. (2020). *Using a mixed methods approach to assess the impact of co-management on community and household resilience in Ghana*. Paper presented at the International Association for the Study of the Commons (IASC) 2020 Virtual Conference (July 13 – 27).

Floress, K., Akamani, K., Mehmood, S., Aspley, D., Connolly, J. S. B. (2018, July). *Building community resilience and restoration economies near Eastern National Forests*. Paper presented at the 2018 Annual Meeting, Rural Sociological Society, Portland, Oregon (July 26 – 29).

Akamani, K. (2018, June). *Understanding and addressing the human dimensions of the food-energy-water nexus: An adaptive governance approach*. Paper presented at the 2018 UCOWR/NIWR Annual Conference, Pittsburgh, Pennsylvania (June 26-28).

Akamani, K., & Hancock, J. (2018, June). *Evolving water governance mechanisms for managing wicked environmental problems in the Cache River watershed of southern Illinois*. Paper presented at the 2018 UCOWR/NIWR Annual Conference, Pittsburgh, Pennsylvania (June 26-28).

Boucher, R., & Akamani, K. (2018, June). *Water governance and community resilience: A case study of two resource-dependent communities in the Cache River watershed of Southern Illinois*. Paper presented at the 2018 UCOWR/NIWR Annual Conference, Pittsburgh, Pennsylvania (June 26-28).

Akamani, K. (2018, May). *Assessing the impacts of agroforestry on community and household resilience in Africa: An analysis of the Modified Taungya System in Ghana*. Paper presented at the Fourth International Moroccan American Agricultural Sciences Conference – AMAS Conference IV, Qualipole-Agropolis, Meknes, Morocco (May 9 – 11).

Hancock, J., & Akamani, K. (2017, June). *Understanding the emergence of adaptive water governance: A case study of the Cache River Watershed of Southern Illinois*. Paper presented at the 2017 UCOWR/NIWR Annual Conference, Fort Collins, Colorado (June 13-15).

Sheely, R., & Akamani, K. (2017, June). *Water governance and community sustainability: Evaluating the impact of the Joint Venture Partnership on the resilience of communities in the Cache River watershed*. Paper presented at the 2017 UCOWR/NIWR Annual Conference, Fort Collins, Colorado (June 13-15).

Akamani, K. (2017, April). *Integrating deep ecology and adaptive governance for protected areas governance*. Paper presented at the 2017 National Environment and Recreation Research Symposium, Annapolis, Maryland (April 2-4).

Akamani, K. (2016, June). *Adaptive water governance for transformational adaptation to climate change*. Paper presented at the 2016 UCOWR/NIWR/CUAHSI Annual Conference, Pensacola Beach, Florida (June 21-23).

Akamani, K. (2016, June). *Adaptive water governance and evolving planning theories*. Paper presented at the 2016 UCOWR/NIWR/CUAHSI Annual Conference, Pensacola Beach, Florida (June 21-23).

Akamani, K. (2016, April). *Adaptive governance of protected areas in an era of global environmental change*. Paper to be presented at the 21st International Conference of the Society for Human Ecology (SHE), Santa Ana, California (April 12-15).

Akamani, K. (2015, November). *An instrument for assessing the impact of co-management on the resilience of forest-dependent communities*. Poster presented at the 2015 SAF Annual Convention, Baton Rouge, Louisiana.

Akamani, K. (2015, June). *Adaptive water governance: A framework for integrating the human dimensions into water resource governance in the face of uncertainty*. Paper presented at the 2015 UCOWR/NIWR/CUAHSI Annual Conference, Las Vegas, Nevada.

Akamani, K. (2015, March). *Moving from co-management to adaptive governance of protected forests in Ghana*. Paper presented at Science for Parks, Parks for Science: The next Century. UC Berkeley, Berkeley, California.

Akamani, K. (2014, October). *The process and outcomes of community and household response to change in forest policy in Ghana*. Paper presented at the 20th International Conference of the Society for Human Ecology (SHE), College of the Atlantic, Bar Harbour, Maine.

Akamani, K. (2014, October). *Assessing the impact of co-management on social-ecological resilience: Does scale matter?* Paper presented at Pathways 2014: Integrating the Human Dimensions into Fish and Wildlife Management. Estes Park, Colorado.

Akamani, K. (2014, March). *Building social-ecological resilience through adaptive co-management in the Cache River watershed of southern Illinois*. Paper presented at the 19th Central Hardwood Forest Conference, Southern Illinois University, Carbondale, Illinois.

Harris, C. C., Akamani, K., & Blahna, D. J. (2011, March). *The dynamic nexus of community development, wildland disturbance and land management institutions: Integrating resilience theory, patch dynamics, structuration and adaptive governance for more effective resource management*. Paper presented at the Resilience 2011 Conference, Tempe, Arizona.

Akamani, K., Harris, C. C., & Blahna, D. J. (2008, September). *Capitals, capabilities, and resilience: A framework for understanding and assessing change in amenity migration communities*. Paper presented at the 16th Annual International Conference on the Society for Human Ecology (SHE), Western Washington University, Bellingham, Washington.

Harris, C. C., Akamani, K., & Blahna, D. J. (2008, September). *Amenity communities as dynamic social-ecological systems: Future directions for theory and application*. Paper presented at the 16th Annual International Conference of the Society for Human Ecology (SHE), Western Washington University, Bellingham, Washington.

Akamani, K., Harris, C. C., Blahna, D. J., & Morse, W. C. (2008, June). *From stability to resilience: Assessing and enhancing community conditions and capacity for sustainable community development*. Paper presented at the 14th Annual International Symposium on Society and Resource Management, University of Vermont, Burlington, Vermont.

Harris, C. C., Akamani, K., Blahna, D. J., & Morse, W. C. (2008, June). *The nexus of community development, wildland firefighting, ecological restoration, and land management institutions: Applying panarchy, patch dynamics, structuration, and adaptive governance to resource management change*. Paper presented at the 14th Annual International Symposium on Society and Resource Management, University of Vermont, Burlington, Vermont.

Harris, C. C., Akamani, K., Bilodeau, K., & Charpentier, P. (2007). *Attitudes and behaviours concerning water in the Palouse Basin: Results of a representative survey*. Palouse Water Summit, Pullman, Washington.

INVITED PRESENTATIONS

Akamani, K., Sitas, N., & Kemunto, S. (2025). How Africa can build a green economy. Invited panel member on episode 3 of TalkLandscape, an initiative of the Global Landscapes Forum (June 10) (<https://thinklandscape.globallandscapesforum.org/73477/how-africa-can-build-a-green-economy/>)

Akamani, K. (2025, April). The United Nations Sustainable Development Goals: Examples from SIU academic programs. Invited panel member, United Nations Association of the United States of America Southern Illinois University Chapter, SIU Carbondale (April 15)

Akamani, K. (2024, November). How to balance teaching, research, and service? Invited panel member, SIU Provost's Saluki Teaching and Research Success (STARS) Program, SIU Carbondale (November 1)

Akamani, K. (2024, October). Systems of engagement for black people in the global scientific enterprise. Invited member of virtual discussion panel. National Academies of Sciences,

Engineering, and Medicine Roundtable on Black Men and Black Women in Science, Engineering, and Medicine (October 3-4)

McElwee, P., Akamani, K., Costanza, J., Hamilton, S., Shrestha, G., & Wilkening, J. (2024, January). Fifth National Climate Assessment: Ecosystems, Ecosystem Services, and Biodiversity. Panel members, National Climate Assessment Public Engagement Webinar, United States Global Change Research Program.

Akamani, K. (2023, May). Assessing the impact of co-management on the resilience of rural forest-dependent communities in Ghana: Implications for Climate-Smart Forestry. Invited Speaker, Geography and Geospatial Science Program, Oregon State University.

Akamani, K. (2023, March). African Experiences in the American Diaspora. Invited member of discussion panel. African Week, SIU Carbondale.

Akamani, K. (2022, December). Invited speaker, session on climate smart agriculture and forestry assessment and application. American Geophysical Union Annual Meeting, Chicago, IL.

Akamani, K. (2022, March). Panel member: Local to global: Rights, ecosystems, and climate policy. Climate Teach-In, SIU Carbondale.

Akamani, K. (2021, May). Panel member: The interplay between social and ecological variables in water governance. IASC 2021 Water Commons Conference.

Akamani, K. (2021, April). Minorities in Agriculture, Natural Resources and Related Sciences: An overview of opportunities and benefits. Invited Guest Lecture, Carbondale Community High School, Carbondale, IL.

Akamani, K. (2021, February). Assessing the impact of co-management on community and household resilience in Ghana. Invited Guest Lecture, UHON 351 Designing Sustainability, SIU Carbondale.

Akamani, K. (2021, February). Enhancing racial diversity in US agriculture and the role of Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS). Guest Speaker, Black History Month, SIU Carbondale.

Akamani, K. (2021, January). Evolving approaches to forests and water resources governance and implications for community resilience. Invited Colloquium Speaker, Geography Program, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University.

Akamani, K. (2020, October). Community resilience to climate change. Invited moderator, UCOWR Virtual Roundtable.

Akamani, K. (2019, June). *Community strategies for ecosystem management*. Invited presentation at the Climate Economy in Southern Illinois – Creating Resilient Businesses, Jobs and Communities seminar. Carbondale, Illinois.

Floress, K., Gobster, P., Haines, A., Usher, E., Dockry, M., Connolly, S., & Akamani, K. (2017, November). *Landscape scale conservation: Insights from three national forests*. Invited presentation at the Purdue University Department of Forestry and Natural Resources Graduate Seminar.

Floress, K., & Akamani, K. (2017, November). *Ecosystem management on the Shawnee National Forest and opportunities for a resilient southern Illinois*. Invited paper presented at University of Illinois Urbana-Champaign, Department of Natural Resources and Environmental Sciences, Urbana-Champaign, Illinois.

Floress, K., & Akamani, K. (2017, May). *The Shawnee National Forest and opportunities for a resilient southern Illinois*. Invited paper presented at the US Forest Service Northern Research Station, Evanston, Illinois.

Akamani, K. (2016, April). *Towards ecosystem-based adaptation in West Africa*. Invited presentation at the Perspectives on hydroclimate seminar, Environmental and Resource Policy Program, Southern Illinois University, Carbondale, Illinois.

Akamani, K. (2016, April). *Transition towards sustainable and resilient agricultural systems for food, energy, and water security*. Presented at Elevating Research 2.0, Southern Illinois University, Carbondale, Illinois.

Akamani, K. (2014, April). *Overcoming challenges in the transition toward adaptive water governance*. Environmental and Resource Policy Program, Southern Illinois University, Carbondale, Illinois.

Akamani, K. (2012, April). *The determinants and outcomes of community resilience to change in forest policy in Ghana*. Department of Forestry, Southern Illinois University, Carbondale, Illinois.

Akamani, K. (2012, March). *An assessment of the impact of co-management on the resilience of forest-dependent communities in Ghana*. Environmental and Resource Policy Program, Southern Illinois University, Carbondale, Illinois.

Akamani, K. (2010, November). *Understanding the resilience and adaptation of forest-dependent communities in Ghana*. Integrated Graduate Education and Research Traineeship (IGERT) Program, University of Idaho, Moscow, Idaho.

CURRENT/COMPLETED FUNDED PROJECTS

Li, R., Akamani, K., Hu, S., & Quinn, C. (2024). EAGER : CHIRRP : Responding to groundwater depletion and building resilience by examining emerging social-environmental-technical structures. National Science Foundation. Amount: \$300,000.00

Akamani, K. (2024). Transitions towards sustainable and climate-smart agricultural systems for enhanced food, energy and water security: A case study of the Cache River watershed of

southern Illinois. USDA National Institute of Food and Agriculture McIntire Stennis Cooperative Forestry Research Program. Amount: \$136,257.50

Akamani, K. (2019). Toward sustainable adaptation to climate change: Understanding community and watershed level responses to climate change impacts in the Cache River watershed of southern Illinois, U.S.A. USDA National Institute of Food and Agriculture McIntire Stennis Cooperative Forestry Research Program. Amount: \$130,599.00

Ahiablame, L., Mashiri, F. E., Becchetti, T., Fulford, A., Sumner, D. A., Akamani, K., Gordon, P. (2019). Quantifying the effects of rangeland conversion on ecosystem functions: Linking land use systems to enhance farm productivity. Western SARE. Amount: \$47,810.00 (total amount: \$349,327.00)

Floress, K, & Akamani, K. (2016). Moving past conflict on the Shawnee National Forest: Planning for a more resilient southern Illinois. USDA Forest Service, Northern Research Station. Amount: \$30,992.00

Akamani, K. (2015). Integrating the human dimensions into water resource governance. Applying resilience, vulnerability and adaptive governance to conserve land and water resources in the Cache River watershed of southern Illinois. USDA National Institute of Food and Agriculture McIntire Stennis Cooperative Forestry Research Program. Amount: \$100,362.00

Akamani, K., Nsofor, E., Gagnon, K., Hexmoor, H., Jones, K., Gage, K., & Wang, L. (2015). Transitions toward sustainable and resilient agricultural systems for food, energy and water security. College of Agricultural Sciences, Science and Engineering Interdisciplinary Research. Amount: \$5,200.00

PENDING/UNFUNDED PROPOSALS

Akamani, K., & Prist, P. (2025). Transitions towards forest landscape restoration for enhanced biodiversity, human well-being and climate change resilience: An analysis of the Ghana Forest Plantation Strategy. Packard Foundation. Amount: \$350,000.00

Akamani, K. (2023). Adaptive governance, conflict transformation, and community resilience. Institute for Humane Studies. Amount: \$8,825.00

Akamani, K. (2023). The roles of adaptive water governance in enhancing community resilience: The case of the Cache River watershed in southern Illinois. Institute for Humane Studies. Amount: \$5,695.00

Akamani, K. (2023). Towards climate-smart forestry for advancing the nexus of biodiversity, water, food, climate and livelihoods: A case study of the Ashanti region of Ghana. International Water Management Institute, Accra, Ghana. Amount: \$29,272.00

Meisner, C., and Woods, M. (2022). Cultivate40: Scaling up investments in natural climate solutions for underserved and small producers. USDA. Amount: \$4,900,000.00. (Kofi Akamani as project partner on behalf of SIU MANRRS)

Akamani, K. (2021). Transitions towards ecosystem-based adaptation and implications for the resilience of rural forest-dependent communities in Ghana. Carnegie Fellows Program, Carnegie Corporation of New York. Amount: \$200,000.00

Li, R., Crowe, J., Dai, C., Akamani, K. (2021). Groundwater sustainability in a changing climate: Coupled hydrologic and socioeconomic dynamics in irrigated agricultural landscapes. National Science Foundation Coupled Natural and Human Systems. Amount: \$1,600,000.00

Li, R., Crowe, J., Dai, C., Akamani, K. (2020). Groundwater sustainability in a changing climate: Coupled hydrologic and socioeconomic dynamics in irrigated agricultural landscapes. National Science Foundation Coupled Natural and Human Systems. Amount: \$1,454,748.00

Akamani, K. (2020). Managing wicked problems in ecosystem-based forest management: A case study of the Shawnee National Forest. SIU Foundation Research Grant. Amount: \$9,964.00

Floress, K. & Akamani, K. (2020). Ecosystem management and natural resource conflicts: A case study of the Shawnee National Forest. USDA Forest Service Northern Research Station. Amount: \$36,471.

Akamani, K. (2020). Determinants and outcomes of farmers adoption of sustainable and climate-smart agricultural practices: A systematic review. United Soybean Board (full proposal). Amount: \$32,306.

Akamani, K. (2020). Determinants and outcomes of farmers adoption of sustainable and climate-smart agricultural practices: A systematic review. United Soybean Board (pre-proposal). Amount: \$85,000.00

Akamani, K. (2019). Adaptive governance and the food-energy-water nexus. Sabbatical Research Grant, Institute for Humane Studies, George Mason University. Amount: \$50,000.00

Akamani, K. (2019). Adaptive water governance for transformational adaptation to climate change. The Hayek Fund, Institute for Humane Studies, George Mason University. Amount: \$8,009.00

Akamani, K. (2019). Adaptive water governance for transformational adaptation to climate change. Sabbatical Research Grant, Institute for Humane Studies, George Mason University. Amount: \$42,000.00

Akamani, K. (2018). Toward sustainable adaptation to climate change: Exploring the institutional dimensions of ecosystem-based adaptation in the Cache River watershed of southern Illinois. Southern Illinois University Foundation Research Grant. Amount: \$9,500.00

Akamani, K., & Latour, M. (2017). Determinants and outcomes of farmers' adoption of conservation practices: A systematic review. Illinois Nutrient Research & Education Council. Amount: \$63,375.00

Akamani, K., Liang, Y., Nsofor, E., Wang, L., Williard, K., Schoonover, J. & Jones, K. (2017). Transitions toward sustainable and resilient agricultural systems for food, energy and water security. National Science Foundation Innovations at the Nexus of Food Energy and Water Systems (INFEWS). Amount: \$1,430,624.00

Akamani, K. (2016). Understanding and assessing transitions towards collaborative forest management and its implications for social-ecological resilience to climate change. National Science Foundation Faculty Early Career Development Program (CAREER). Amount: \$474,126.00

Akamani, K., Nsofor, E., Hexmoor, H., Jones, K., Gage, K., Gagnon, K., & Wang, L. (2016). Transitions toward sustainable and resilient agricultural systems for food, energy and water security: Application of a proposed model. Elevating Research II, College of Agricultural Sciences, Science and Engineering, Southern Illinois University. Amount: \$10,915.00

Akamani, K., Nsofor, E., Hexmoor, H., Jones, K., Gage, K., Gagnon, K., & Wang, L. (2016). Understanding the process and outcomes of transitions toward sustainable agricultural systems for food, energy and water security. National Science Foundation Innovations at the Nexus of Food Energy and Water Systems (INFEWS). Amount: \$999,501.00

Akamani, K. (2015). Applying ecosystem management and adaptive governance to the Cache River watershed of southern Illinois. Oak Ridge Associated Universities Ralph E. Powe Junior Faculty Enhancement Awards. Amount: \$10,000.00

Akamani, K. (2015). Assessing barriers to general and specified climate change resilience in southern Lake Michigan coastal communities. Illinois-Indiana Sea Grant 2016-2017 RFP. Amount: \$85,362.00

Akamani, K., Seekamp, E., & Holzmüller, E. J. (2012). Understanding and enhancing the role of forest certification in building the resilience of communities and forests against climate change impacts. The Sustainable Forestry Initiative Conservation and Community Partnerships Grant Program. Amount: \$10,000.00

Yaro, J. A., Akamani, K., Holzmüller, E. J., Bawakyillenuo, S., & Seekamp, E. (2012). The role of agroforestry in enhancing farmers resilience to climate change impacts in southern Ghana. Grant Awards for Global Environmental Change Research in Africa, Global Change System for Analysis, Research and Training. Amount: \$44,000.00

COURSES TAUGHT

Southern Illinois University, Carbondale

- FOR 585: Human Dimensions of Natural Resource Management (Graduate, classroom)
- FOR 500: Principles of Research (Graduate, classroom)
- FOR 520: Advanced Park Planning (Graduate, classroom)
- FOR 325: Forest Resources Administration and Policy (Undergraduate, classroom and online)
- FOR 285: Social Influences in Forestry (Undergraduate, classroom and online)
- FOR 422: Park and Wildlands Management Camp (Undergraduate, field-based)
- FOR 480: Natural Resource Conflict Management (Undergraduate, classroom)
- For 470: Wilderness Management (Undergraduate, classroom)
- FOR 421: Recreation Land Use Planning (Undergraduate, classroom)
- FOR 415: Urban Ecosystem Management (Undergraduate, classroom)
- HTA 445: Sustainable Tourism Planning and Development (Undergraduate, classroom)

University of Idaho

- CSS 573: Planning and Decision-making for Watershed Management (Graduate, online)
- CSS 493: International Land Preservation and Conservation Systems (Undergraduate, classroom)
- IS 326: Topics in African Studies: Africa Today (Undergraduate, online)

Kwame Nkrumah University of Science and Technology, Ghana

- PL 153 & 154: Planning Workshop I (Undergraduate, classroom and field-based)

GRADUATE STUDENT ADVISING**Graduate Committee Chair, completed**

Jodie Hancock (MS, Department of Forestry, August 2017)

Rachel Boucher (MS, Department of Forestry, August 2018)

Christopher Sedivy (MS, Department of Forestry, August 2019)

Abigail Plecki (MS, Department of Forestry, December 2019)

Nicole Mooar (MS, Department of Forestry, August 2023)

Mukesh Bhattarai (Ph.D. Environmental and Resource Policy, Summer 2024)

Raymond Bieri (MS, Department of Forestry, Fall 2024)

Graduate Committee Chair, ongoing

Priyanka Subedi (MS, Forestry; Expected Spring 2027)

Pearl Fichtel (Ph.D. Environmental and Resource Policy; Expected Spring 2028)

Adizatu Mohammed (Ph.D. Environmental and Resource Policy; Expected Spring 2029)

Graduate Committee Member, ongoing

Rebecca Kagaris (Ph.D., Agricultural Sciences; Expected Spring 2027)

Sherri Jepsen (Ph.D. Agricultural Sciences; Expected Spring 2028)

Graduate Committee Member, completed

Patrick Barima Twum (MS, Agribusiness Economics, Spring 2025)

Seidu Musa (MS, Agribusiness Economics, Spring 2025)

Adizatu Mohammed (MS, Geography and Environmental Studies; Spring 2025)

Keesha St. James (MS, Agribusiness Economics, Spring 2024)

Richard Amoako (MS, Agribusiness Economics, Spring 2024)

Success Okafor (MS, Agribusiness Economics, Fall 2022)

Fiorella Palomino (Ph.D. Agricultural Science, Fall 2022)

Brianna Winkel (MS, Department of Forestry; 08-2021)

Pearl Sika Deku (MS, Geography and Environmental Resources (05-2020)

Benjamin Alexander (MS, Agricultural Education) (05-2019)

Evan Greenspan (MS, Department of Forestry) (12 -2018)

Clara Mundia (Ph.D. Environmental and Resource Policy) (05-2018)

Shanna McClain (Ph.D., Department of Geography/IGERT) (12-2016)

Ely Lane (MS, Department of Forestry) (05-2016)

Evan Coulson (Ph.D., Department of Forestry) (06-2016)

David Ochieng Nyaoke (MS, Department of Agribusiness Economics) (05-2014)

Erin Thomas (MS, Department of Forestry) (05-2014)

William Sutphin (MS, Department of Geography) (05-2013)

UNDERGRADUATE STUDENT ADVISING

Allyssa Kennel (BS, Department of Forestry). The contributions of urban forests to urban community resilience (05-2016)

Diego Bolanos (BS, Department of Forestry). Environmental justice and benefits of urban green spaces (05-2016)

William Hansche (BS, Department of Forestry). Strategies for nature conservation in urban landscapes (05-2016)

Matthew Walsh (BS, Department of Forestry). Barriers to monitoring and evaluation in ecosystem restoration projects (05-2016)

Eric Baumberger (BS, Department of Forestry). The use of Unmanned Aerial Vehicles for ecological monitoring in US National Parks. (05-2014)

Michael Wood (BS, Department of Forestry). The contributions of urban sprawl to sustainable urban development. (05-2014)

Thomas Day (BS, Department of Forestry). Benefits of Urban Green Spaces in US Cities. (05-2013)

Joseph Starkey (BS, Department of Forestry). Management of Feral Hogs in Texas. (05-2013)

Jarrid Perrin (BS, Department of Forestry). Land Tenure and Sustainable Forest Management in Ghana. (05-2012)

COMMUNITY SERVICE

Registered Student Organization Advisor at SIU

- Minorities in Agriculture, Natural Resources and Related Sciences (08-2017 to present)

Editorial Service:

- Guest Editor "Forests for social and economic resilience," Ecology & Society (11-2025 to 05-2027)
- Editor-in-chief, Journal of Sustainable Forestry (01-2025 to present)
- Subject Editor, Ecology & Society (09-2024 to present)
- Special Issue Editor "Resource-dependent rural community sustainability and resilience," Sustainability (06-2022 to 09-2023)
- Associate Editor, Frontiers in Sustainable Food Systems (07-2023 to present)

- Associate Editor, Society & Natural Resources (07-2020 to 06-2023)
- Associate Editor, Journal of Contemporary Water Research and Education (2016-2019; 2019-2022; 2022-2025)
- Editorial Board Member, Ghana Journal of Geography (09-2020 to 08-2023)
- Section Editor, Environmental Studies Section, SAGE Open (01-2020 to 12-2024)
- Article Editor, SAGE Open (02-2018 to 10-2018)

Peer Reviewer:

- Environmental Policy & Governance (1)
- Climate and Development (1)
- Journal of Forestry (1)
- Ecology & Society (1)
- International Journal of Disaster Risk Reduction (1)
- Rural Society (1)
- Water (2)
- International Journal of Applied Geospatial Research (1)
- Local Environment (1)
- Environmental Education Research (1)
- Environmental and Sustainability Indicators (3)
- Urban Forum (1)
- GeoJournal (1)
- Environmental Science and Policy (2)
- Journal of International Development (2)
- Poverty and Public Policy (4)
- Energy Research and Social Science (1)
- Environmental Sociology (3)
- Natural Resources Forum (5)
- Journal of Sustainable Forestry (4)
- Ecosystems and People (2)
- Development Policy Review (1)
- Journal of Environmental Policy and Planning (3)
- Environmental Monitoring and Assessment (1)
- Forests (2)
- Land (1)
- Community Development (4)
- Small Scale Forestry (3)
- Journal of American Water Resources Association (3)
- Economics of Disasters and Climate Change (1)
- Environment, Development and Sustainability (3)
- Journal of Environmental Management (12)
- International Forestry Review (5)
- Agroforestry Systems (1)
- Agronomy for Sustainable Development (1)
- Conservation Biology (1)
- Conservation and Society (1)

- Environmental Management (5)
- Forest Policy and Economics (5)
- Ghana Journal of Geography (14)
- Human Ecology (10)
- Human Ecology Review (3)
- SAGE Open (3)
- Society and Natural Resources (10)
- Sustainability (6)
- Journal of Environmental Planning and Management (3)
- Environmental Policy and Governance (1)
- Resources (2)
- Journal of Rural and Community Development (1)
- NACTA Journal (2)
- Environments (1)
- International Journal of Sociology and Anthropology (1)
- Journal of Biodiversity Management and Forestry (3)
- Journal of Social Sciences (1)
- International Journal of Environmental Research and Public Health (4)
- Advances in Industrial Engineering and Management (1)
- Book proposal reviewer, Taylor and Francis (1)
- Book reviewer, Waveland Press (1)
- Proceedings 19th Central Hardwood Forest Conference. USDA Forest Service Northern Research Station. General Technical Report NRS-P-142 (1).
- Book chapter reviewer, Springer Publishing (4)
- Book proposal reviewer, Waveland Press (1)

Grant Proposal Reviewer

- Austrian Research Promotion Agency
- National Academies of Sciences, Engineering, and Medicine (NASEM), and National Oceanic and Atmospheric Administration's (NOAA) Environmental Literacy for Community Resilience grant program
- National Science Foundation Dissertation Grant Proposal
- National Science Foundation/Belmont Forum Food-Energy-Water Nexus grants
- Social Sciences and Humanities Research Council, Canada
- European Biodiversity Partnership Biodiversa+ grant program
- USDA National Institute of Food and Agriculture Higher Education Multicultural Scholars Program
- USDA National Institute of Food and Agriculture Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Conservation of Natural Resources 8.4 Programs, Phase 1
- 1890 Universities Foundation Rising from Roots Competitive Grant Program

Membership in Committees/Community Service:

- Search Committee, SIU System Vice President for Financial and Administrative Affairs (06/2025 to 07/2025)

- Search Committee, Assistant Professor (Wildlife Management), School of Forestry and Horticulture (07/2025 to present)
- Search Committee, Assistant Professor (Forest Ecology), School of Forestry and Horticulture (04/2025 to present)
- Appointed by the governor of the state of Illinois as member of the Illinois Natural Resources Advisory Board (01/2025 to 01/2028)
- Member of the Follow-up (Evaluation) Group of Biodiversa+ Grant Program, European Biodiversity Partnership (11/2024 till present)
- Session Moderator, UCOWR/NIWR Annual Conference, Saint Louis, MO (09/2024)
- Member of UCOWR Dissertation Awards Committee (10/2024 to 12/2024)
- Member of expert panel for scoping the Global Forest Expert Panels (GFEP) assessment on Forests for Social and Economic Resilience, International Union of Forest Research Organizations (01/2024 to 03/2024)
- Member of the Paper of the Year Award Committee, Journal of Contemporary Water Research and Education (02/2024 to 03/2024)
- Member of expert panel for scoping the Biodiversity and Societal Transformation call (to be launched in September 2024), Biodiversa+ Grant Program, European Biodiversity Partnership (01/2024 to 04/2024)
- Deputy Chair of the Scientific Evaluation Committee, Biodiversa+ Grant Program, European Biodiversity Partnership (01/2024 to 06/2024)
- Member of the Scientific Evaluation Committee, Biodiversa+ Grant Program, European Biodiversity Partnership (11/2023 to 06/2024)
- Search Committee, Assistant Professor (Aquaculture), Center for Fisheries, Aquaculture and Aquatic Sciences and School of Biological Sciences (11/2023 to 05/2024)
- Search Committee, Assistant Lecturer (Horticulture), School of Forestry and Horticulture (10/23 to 12/2023)
- Search Committee, STEM Librarian, Morris Library, SIUC (08/2023 to 05/2024; 08/2024 to 11/2024)
- Search Committee, Assistant Professor of Precision Agriculture, College of Agricultural, Life, and Physical Sciences, SIUC (08/2023 to 12/2023)
- Search Committee, Researcher I (Urban and Community Forestry), Forestry Program, SIUC (05/2023 to 08/2023)
- Search Committee, Assistant Lecturer (Conservation Law Enforcement), Forestry Program, SIUC (03/2023 to 06/2023)
- Search Committee, Assistant Scientist (Water Quality Research Lab), Forestry Program, SIUC (04/2023 to 06/2023)
- Deputy Chair, Evaluation Committee (Scientific Panel), Biodiversa+ European Biodiversity Partnership (01/2023 – 06/2023).
- Member of Evaluation Committee (Scientific Panel), Biodiversa+ European Biodiversity Partnership (11/2022 – 06/2023).
- Committee Member, 2022 Burdge and Field Outstanding Article Selection Committee, International Association for the Study of Natural Resources (12/2022 – 03/2023)
- Committee Member, Education and Public Service Award, UCOWR (11/2022-12/2022)

- Committee Member, 2023 Warren A. Hall Award, UCOWR (11/2022 – 12/2022)
- Search Committee, Director of School of Forestry and Horticulture Position (11/22 – 04/2023)
- Search Committee, Horticulture Non-Tenure Track Position (08/2022 to 11/2022)
- Committee Member, Diversity and Inclusion Task Force, College of Agriculture, Life and Physical Sciences, SIU Carbondale (09-2022 to present)
- Elected Member of Board of Directors, UCOWR (06/2022 to 06/2025)
- Member of the Indigenous People and Local Communities (IPLCs) Liaison Group, IPBES (05/2022 to present)
- Search Committee, Researcher II (Erosion and Water Quality), Forestry Program, SIUC Carbondale (03-2022 to 05/2022)
- Search Committee, Assistant Scientist (Weed Science), CALPS, SIU Carbondale (03-2022 to 05/2022)
- Expert reviewer, First Order Draft of the Synthesis Report of the IPCC Sixth Assessment Report (AR6), Intergovernmental Panel on Climate Change (IPCC) (01/2022 to 03/2022)
- Lead Author, Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Nexus Assessment, (01/2022 to 12/2024)
- Member of scientific committee of proposal review panel, Biodiversa+ European Biodiversity Partnership (11/2021 to 06/2022)
- Contributing author, ecosystems chapter of the Fifth National Climate Assessment (NCA5) (09-2021 to 11/2023)
- Expert reviewer, Intergovernmental Science-Policy Panel on Biodiversity and Ecosystem Services (IPBES) Nature Futures Framework (10-2021 to 11/2021)
- Search Committee, Director of School of Forestry and Horticulture, SIU Carbondale (10-2021 to 12/2021)
- Planning Committee, Black History Month, SIU Carbondale (09-2021 to 02/2022)
- Search Committee, Weed Science Researcher I Position, School of Agricultural Sciences, SIU Carbondale (08-2021 to 10-2021)
- Search Committee, Director of Multicultural Resource Center, SIU Carbondale (08-2021)
- Poster judge, UCOWR/NIWR 2021 Virtual Conference (06-2021)
- Moderator, Speed Networking Event, UCOWR/NIWR 2021 Virtual Conference (06-2021)
- Search Committee, Researcher I (Soils), School of Agricultural Sciences, SIU (08-2021)
- Graduate Director, Forestry M.S. Program, SIU Carbondale (08-2021 to present)
- Search Committee, SIU System Vice President for Antiracism, Diversity, Equity & Inclusion – Chief Diversity Officer position (02-2021 to 03-2021)
- SIU System Faculty Advisory Committee, representative of the Diversity & Inclusion Task Force (02-2021 till present)
- Pathway Leader (Moderator) for “Governance in a Changing World: Food, Energy and Water,” Pathway Synthesis Workshop, National Council on Science and the Environment Drawdown 2021 Conference (01-2021)
- Graduate Dean’s/PROMPT Committee, SIUC (12-2020 to 12-2023)
- Undergraduate Curriculum Committee, Forestry Program, SIUC (Fall 2020 to present)
- Sustainability Director Screening Committee, SIUC (08-2020 – 09/2020)

- Faculty Senate representative on the Chancellor's Diversity Task Force (07-2020 to present)
- Search Committee, Assistant Professor of Forest Ecosystem Services, Forestry Program, SIU (06-2020 to 12-2020)
- Awards Committee, Journal of Contemporary Water Research and Education (JCWRE) Best Paper Award (01-2020 to 04-2020; 10-2020 to present)
- Undergraduate Curriculum Executive Committee (Fall 2019 – Spring 2020)
- Search Committee, Assistant Professor of Forest Ecosystem Services (08-2019 to 05/2020)
- Abstracts Review Committee, National Council for Science and the Environment (NCSE) 2020 Annual Conference (08-2019)
- SIU Sustainability Council (Fall 2019 – Spring 2021)
- Search Committee, Researcher II, Department of Forestry
- Search Committee, Assistant Professor of Practice in Forest Resources, Department of Forestry
- Search Committee, Researcher III, Belleville Research Center, University Farms, COAS (01-2019)
- Search Committee, Assistant Professor of Agricultural Education, COAS (08-2018)
- Member, Undergraduate Curriculum Committee, Department of Forestry (08-2018 to 05-2019; 08-2020 to present)
- Search Committee, Landscape Architecture NTT, PSAS (06-2018)
- Search Committee, Horticulture NTT, PSAS (06-2018)
- Moderator, UCOWR Conference, Pittsburgh, PA (06-2018)
- Moderator, AMAS Conference IV, Meknes, Morocco (05-2018)
- Search Committee, Agricultural Education Instructor, PSAS (05-2018)
- Special Committee on Reorganization, SIU Faculty Senate (04-2018 to 04-2019; 11-2020 to 05/2021)
- Undergraduate Education Policy Committee, SIU Faculty Senate (04-2018 to 04-2021)
- Co-chair, Committee on Committees, SIU Faculty Senate (04-2018 to 04-2019)
- Committee on Committees, SIU Faculty Senate (04-2018 to 04-2020)
- Faculty Senate Representative, COAS (04-2018 to 04-2021)
- Search Committee, Coordinator of Student Transition and Success, COAS (04-2018)
- Search Committee, Researcher/Scientist Position, Department of Plant, Soil and Agricultural Systems (01-2018)
- Search Committee, Horticulture Position (Non-tenure Track), Department of Plant Soil and Agricultural Systems (11-2017)
- Faculty Advisor, Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS), SIU chapter (08-2017)
- Panel Member, Belmont Forum Panel of Experts, Sustainable Urbanization Global Initiative (SUGI) – Food-Water-Energy Nexus, National Science Foundation (04-2017)
- Search Committee, Soil Scientist Position (Tenure-track), Department of Plant Soil and Agricultural Systems (01-2017)
- Member of USDA Grant Review Panel, the Secondary Education, Two-Year Postsecondary Education and Ag in the K-12 Classroom (SPECA) Challenge Grants Program (12-2016)
- Diversity and Inclusion Committee, College of Agricultural Science, SIUC (11-2016)

- Search Committee, Soil Scientist Position, Department of Plant Soil and Agricultural Systems (11-2016)
- Member of Internal Advisory Board, Environmental Resource and Policy, SIUC (08-2016 to present)
- Member of Education Policy Committee, College of Agricultural Science, SIUC (08-2015 to present)
- College Assessment Committee member, College of Agricultural Science, SIUC (08-2015)
- Search Committee, NTT Instructor for Soil Fertility, Department of Plant Soil and Agricultural Systems (07-2016)
- Moderator, Water Planning and Governance, 2016 UCOWR Conference, Pensacola Beach, Florida (06-2016)
- Search Committee, Senior Scientist Position, Department of Plant Soil and Agricultural Systems (03-2016)
- Search Committee, Production Economics Position, Department of Agribusiness Economics (03-2016)
- Review Committee, UCOWR Dissertation Awards, 2016
- Southern Illinois University Lead Delegate, UCOWR, 2016
- Search Committee, Researcher I Position, UCOWR, Southern Illinois University (02-2016)
- HTA Tenure Track Search Committee, Department of Animal Science, Food and Nutrition, Southern Illinois University (10-2015)
- Moderator, Human Dimensions of Watershed Management, 2015 UCOWR/NIWR/CUAHSI conference, Henderson, Nevada (06-2015)
- Advisory Group for Pathways Kenya 2016: Integrating the Human Dimensions into Fisheries and Wildlife Management (04-2015)
- Abstracts Review Committee, 2015 UCOWR/NIWR/CUAHSI conference (02-2015)
- IFDC Director Search Committee, Department of Forestry, Southern Illinois University (02-2015)
- Admissions Committee, Environmental Resources and Policy Program, Southern Illinois University (10-2014)
- Research Committee, Department of Forestry, Southern Illinois University Carbondale (08-2014)
- Doctoral Program Committee, College of Agricultural Science, Southern Illinois University Carbondale (08-2014)
- Urban Forestry Researcher Search Committee, Department of Forestry, Southern Illinois University Carbondale (10-2013)
- Graduate Director Search Committee, College of Agricultural Sciences, Southern Illinois University (10-2012)
- Advisor of Saluki Heritage Interpreters (Student organization), Department of Forestry, Southern Illinois University (Since 06-2013)
- Membership Chair, Golden Key International Honour Society, University of Idaho Chapter (05-2010 to 05-2011)
- Member of the Borah Symposium Planning Committee, University of Idaho (03-2007 to 05-2011)

- Member of Transportation Committee, Students' Representative Council, K.N.U.S.T., Kumasi, Ghana (2003)

TEACHING/RESEARCH FELLOWSHIPS & AWARDS

Appointed by the International Union of Biological Sciences as lead delegate to the UN Convention on Biological Diversity's Subsidiary Body on Scientific and Technological Advice 27th meeting in Panama City (20-24 October, 2025)

Nominated by the International Union of Biological Sciences as expert participant in the technical information exchange meeting on the three Rio Conventions (Convention on Biological Diversity, United Nations Framework Convention on Climate Change, and the United Nations Convention to Combat Desertification) at the 62nd session of the Subsidiary Bodies of the UNFCCC in Bonn, Germany (June-2025)

Appointed by the Governor of the state of Illinois as member of the Illinois Natural Resources Advisory Board (01-2025)

Appointed as Editor-in-chief of the Journal of Sustainable Forestry (01-2025)

Appointed as review editor of the Indigenous Knowledge and Local Knowledge chapeau of the Global Environment Outlook seven (GEO-7) report (02-2025)

Appointed by the US Global Change Research Program as author of the Rural Communities chapter of the Sixth National Climate Assessment (NCA6) (10-2024)

Awarded the Blue Planet Prize as a member of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (06-2024)

Appointed by the US Global Change Research Program as author of the Status, Trends and Future Projections of Nature chapter of the First National Nature Assessment (NNA1) (04-2024)

Appointed as Lead Author of the International Union of Forest Research Organizations (IUFRO) Assessment Forests for Social and Economic Resilience (03-2024)

Appointed by the National Academies of Sciences, Engineering and Medicine as Member of the US National Committee for the International Union of Biological Sciences (USNC/IUBS) (03-2024)

Appointed as Lead Author of the United Nations Environment Programme Global Environment Outlook 7 (GEO-7) report, Fall 2023 to Spring 2026. This flagship report of the United Nations Environment Programme, involving hundreds of environmental experts from around the world, will be delivered to the United Nations Environment Assembly in 2026.

2023 International Alumni Achievement Award, College of Natural Resources, University of Idaho (03-2023)

Awarded the 2022 Gulbenkian Prize for Humanity as a member of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (10-2022)

Appointed as lead author of the nexus assessment report on the interlinkages among biodiversity, food, water, health and climate, Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Spring 2022 to Fall 2024

Elected to the Universities Council on Water Resources Board of Directors (10-2021).

Nominated for 2022 Carnegie Fellows Program, Southern Illinois University System (11-2021)

Appointed as author for the Ecosystems chapter of the Fifth National Climate Assessment (NCA5) (08-2021 to 2023)

Member Spotlight, Universities Council on Water Resources (01-2020)

Judge William Holmes Cook Professorship Nomination: Southern Illinois University (03-2018)

Tenure Track Faculty Teaching Excellence Award Nomination: College of Agricultural Sciences, Southern Illinois University (03-2018)

Donald M. Elkins Excellence Award Nomination: College of Agricultural Sciences, Southern Illinois University (01-2018)

External Examiner, Department of Geography and Resource Development, University of Ghana (Since 10-2017)

Early Career Faculty Excellence Award Nomination, Southern Illinois University (02-2017)

Early Career Faculty Award: College of Agricultural Sciences, Southern Illinois University (05-2016)

Judge William Holmes Cook Professorship Nomination: Southern Illinois University (03-2015)

Non-Tenure Track Faculty Teaching Award Nomination: College of Agricultural Sciences, Southern Illinois University (12-2013)

Dissertation Grant: College of Natural Resources, University of Idaho (01-2010)

Travel Grant for dissertation fieldwork: Graduate and Professional Students' Association, University of Idaho (05-2009)

Quota Scholarship (A competitive Norwegian Government scholarship for students from developing countries): University of Oslo (08-2004 to 06-2006)

Kesse-Tagoe and Associates Award for Best Final Year Special Study (Thesis): Faculty of Environmental and Development Studies, K.N.U.S.T, Kumasi, Ghana (08-2003)

Ray Achirobe Memorial Prize for Best Final Year Student in the BSc. Planning Degree Program: Department of Planning, K.N.U.S.T, Ghana (08-2003)

Ghana Institute of Planners' Award for Best Undergraduate Student in the BSc. Planning Degree Programme: Department of Planning, K.N.U.S.T, Kumasi, Ghana (08-2003)

Best Teacher Award: Ghana Education Service, Bongo District (10-1999)