

## Bijesh Mishra, Ph.D.

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Atlanta, GA, 30332

Georgia Institute of Technology

Jimmy & Rosalynn Carter School of Public Policy

630 Williams St NW (DV Smith) (Office/Mail)

## EDUCATION

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- ❖ **Ph.D.**, Resource Economics, Ph.D. Minors in Statistics and Agricultural Economics, Oklahoma State University, Aug 2018 — Jul 2022.
- ❖ **M.S.**, Environmental Studies, Kentucky State University, Jan 2015 — May 2017.
- ❖ **B.S.**, Agriculture (Agricultural Economics), Tribhuvan University, Nepal, Jul 2009 — Jun 2013.

## EMPLOYMENT

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- ❖ Post-doctoral Fellow, Georgia Institute of Technology, Jun 2025 — Present.
- ❖ Post-doctoral Fellow, Auburn University, Oct 2022 — May 2025.
- ❖ Ph.D. Research Associate, Oklahoma State University, Aug 2018 — Sept 2022.
- ❖ Research Assistant, Kentucky State University, Jun 2017 — Jul 2018.
- ❖ M.S. Research Assistant, Kentucky State University, Jan 2015 — May 2017.
- ❖ Agriculture Extension Officer, *Suaahara* (Good Nutrition), Nepal, Jan 2014 — Dec 2014.

## PUBLICATIONS<sup>1</sup>

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### Peer-reviewed Referred Journal Papers:

10. <sup>2</sup>Anand, M., **Mishra, B.**, Miao, R., Khanna, M. (2025). Exploring feedstock pathways to three billion gallons of sustainable aviation fuel: the role of contracts and bioenergy crop insurance. *Applied Economic Perspective and Policy* (R&R).
9. **Mishra, B.**, Miao, R., Musa, N.<sup>3</sup>, Brothers, D., Khanna, M., Rabinowitz, A.N., Mwebaze, P., McCall, J. (2025). Specialty crop agrivoltaics in the southeastern USA: profitability and the role of rural energy for america program. *Choices*, 40(1). <http://dx.doi.org/10.22004/ag.econ.350119>; <https://bit.ly/3Cz5Chf>.
8. Hanby, G., Zhai, L., **Mishra, B.**, Joshi, O. (2025). A comprehensive outlook on drought-caused economic losses and landowners' perceptions concerning drought and erratic rainfall patterns. *Forest Policy and Economics*, 170, 103405. <https://doi.org/10.1016/j.forpol.2024.103405>.
7. **Mishra, B.**, Joshi, O., Masters, R.E., McKinney, C., Adhikari, A., Zou, C.B., Will, R.E. (2023). Economic returns and the perceived obstacles to adopting active management in the forest-grassland transition ecoregion in south-central USA. *Journal of Environmental Management*, 343, 118225. <https://doi.org/10.1016/j.jenvman.2023.118225>.

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<sup>1</sup>Google Scholar Indices: Citations = 209, h-index = 5, i10-index = 4

<sup>2</sup>Anand and Mishra contributed equally to this paper.

<sup>3</sup>MS student (Agricultural Economics) mentored by Dr. Mishra as a postdoc at Auburn University.

6. McKinney, C.M., Masters, R.E., Adhikari, A., **Mishra, B.**, Joshi, O., Zoe, C.B., Will, R. (2023). Forage quantity and protein concentration changes across a forest-savanna gradient with management implications for white-tailed deer. *Forest Ecology and Management*, 538, 120987. <https://doi.org/10.1016/j.foreco.2023.120987>.
5. **Mishra, B.**, Joshi, O., Chapagain, B.P., Lambert, L.H., Will, R.E. (2023). Intentions of landowners towards active management of the ecosystem for deer habitat. *Environmental Management*, 72, 529-539. <https://doi.org/10.1007/s00267-023-01810-3>.
4. Jeffries, K.<sup>4</sup>, **Mishra, B.**, Russell, A., Joshi, O. (2023). Exploring opinions for using prescribed fire to control eastern redcedar (*Juniperus virginiana*) encroachment. *Rangeland Ecology and Management*, 86, 73-79. <https://doi.org/10.1016/j.rama.2022.10.002>.
3. **Mishra, B.**, Sandifer, J., Gyawali, B.R. (2019). Urban heat island in kathmandu: evaluating the relationship between NDVI and LST from 2000 to 2018. *International Journal of Environment*, 8(1), 17-29. <http://dx.doi.org/10.3126/ije.v8i1.22546>.
2. Antonious, G.F., Turley, E., **Mishra, B.**, Heist, Q., Upadhyaya, Y., Trivette, T., Nkuwi, L. (2019). Characterization of eggplant grown in animal manure amended soil. *International Journal of Environmental Health Research*, 30(5), 492-503. <https://doi.org/10.1080/09603123.2019.1602252>.
1. **Mishra, B.**, Gyawali, B.R., Poudyal, N.C., Paudel, K.P., Simon, M.F., Dasgupta, S., Antonious, G. (2018). Adoption of sustainable agriculture practices among farmers in Kentucky, USA. *Environmental Management*, 62(6), 1060-1072. <https://doi.org/10.1007/s00267-018-1109-3>.

### Peer-reviewed Research and Extension Reports:

4. Gore, M., **Mishra, B.**, Joshi, O. (2022). Economic contribution of the forest sector in Oklahoma. *Oklahoma State University Extension Factsheet*, Ser. NREM-5056. Retrieved January 12, 2024, from <https://bit.ly/4jDYFf4>.
3. Antonious, G.F., Turley, E., **Mishra, B.**, Heist, Q., Upadhyaya, Y., Trivette, T., Nkuwi, L. (2018). Growing eggplant in biochar and animal manure-amended soil. *Fruit and Vegetable 2018 Annual Research Report (PR-757)*, 29-31. Retrieved January 14, 2019, from <https://bit.ly/3gmYwNY>.
2. Antonious, G.F., Turley, E., **Mishra, B.**, Heist, Q., Upadhyaya, Y., Trivette, T., Nkuwi, L. (2018). Impact of three alltech formulations on two soil enzymes, hot pepper plant size, and fruit composition. *Fruit and Vegetable 2018 Annual Research Report (PR-757)*, 31-33. Retrieved January 14, 2019, from <https://bit.ly/3gmYwNY>.
1. Antonious, G.F., Pomper, K., Turley, E., Heist, Q., Trivette, T., Nkuwi, L., Upadhyaya, Y., **Mishra, B.** (2017). Investigating the impact of soil-set®, grain-set®, and liqui-plex® formulations on hot pepper, capsicum annum yield. *Fruit and Vegetable 2017 Annual Research Report (PR-739)*, 37-38. Retrieved January 6, 2018, from <https://bit.ly/3L8Dq44>.

### Selected Working Papers:

6. **Mishra, B.**, Morley, M., Matisoff D.C. (202Y). Economic Impact of ASCENT Models Based Sustainable Aviation Fuel Production Technology Pathways. *Journal TBD*.

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<sup>4</sup> Niblack research scholar and undergraduate student mentored by Dr. Mishra as a Ph.D. student at Oklahoma State University.

5. **Mishra, B.**, Mwebaze, P., Miao, R., Khanna, M., Pascaris, A., McCall, J., Hernandez, C., Majeed, F. (202Y). Can agrivoltaics ease opposition to solar energy development? Insight from the U.S. solar stakeholders survey. *Energy Policy*. (Draft manuscript available).
4. **Mishra, B.**, Cornish, B., Miao, R. (202Y). The impact of small refinery exemptions on the renewable fuel market in the United States. *Journal TBD*. (Draft manuscript available).
3. Khanna, M., Mwebaze, P., Miao, R., **Mishra, B.**, et al. (202Y). Perspective on the economics of agrivoltaics in the US. *Journal TBD*.
2. **Mishra, B.**, Joshi, O., Lambert, D. (202Y). Willingness to pay for deer hunting based on hunting site attributes. *Journal TBD*. (Draft manuscript available).
1. <sup>5</sup>**Mishra, B.**, Letsinger, A., Borkar, C., Sullivan, E.K. and McGlynn, M. (202Y). Finding our way together: Peer mentoring helped us navigate early academic career challenges. *Journal TBD*. (Draft manuscript available).

## GRANTS AND FUNDING <sup>6</sup>

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2. **Cost Learning Integration & Modeling for Bio-based Sustainable Aviation Fuels (CLIMBSAF)**. PI: Dr. Daniel Matisoff (Public Policy, Energy, and Sustainability, Georgia Institute of Technology); Co-PIs: **Dr. Bijesh Mishra** (Agricultural Economics and Sustainability, Georgia Institute of Technology), Dr. Micah S. Ziegler (Energy and Chemical Engineering, Georgia Institute of Technology), and Michael Morley (Sustainable Aviation Fuel Specialist, Georgia Institute of Technology) submitted to the United States Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), Agriculture and Food Research Initiative (AFRI), Foundational and Applied Science Program (Center for Excellence) on October 9, 2025. **Total Budget:** US\$ 999,502. **Status:** Under review.
1. **PARTNERSHIP: Enhancing Ecosystem Services by Designing Specialty-Crop Agrivoltaic Systems**. PI: Dr. Ruiqing Miao (Agricultural Economics, Auburn University); Co-PIs: **Dr. Bijesh Mishra** (Agricultural Economics, Auburn University), Dr. Yucheng Feng (Soil Microbiology, Auburn University), Dr. Alvaro Sanz-Saez (Crop Physiology, Auburn University), Dr. Andre Luiz Biscaia Ribeiro da Silva (Horticulture, Auburn University), Dennis Brothers (Extension, Auburn University), Jack Osborne (Electric Engineer, Grenergy USA), John Peters (Solar Developer, Grenergy USA), and Dr. Gamal El Afandi (Fate of Pesticide, Tuskegee University) submitted to the United States Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), Agriculture and Food Research Initiative (AFRI), Foundational and Applied Science Program, on September 14, 2023. **Total Budget:** US\$ 900,000. **Status:** Revise and resubmit.

## TEACHING

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*Note: Independent teaching unless otherwise noted.*

❖ Oklahoma State University, Stillwater, OK

- ◆ **Geospatial Technologies for Natural Resources (NREM 2083)**, Spring 2021 (9 Students) and Spring 2020 (23 Students).

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<sup>5</sup>All authors contributed equally to this paper.

<sup>6</sup> **Grants:** Total Applied: US\$ 1,899,502; Total Under Review: US\$ 999,502

- ◆ **Introduction to Natural History (NREM 1014)**, *Fall 2019 (25 Students)*.
- ❖ Kentucky State University, Frankfort, KY
  - ◆ **Remote Sensing of the Environment (ENV 589)** (TA: Fall 2016 and 2017).
  - ◆ **Introduction to Geographical Information Systems (ENV 511)** (TA: Spring 2016, 2017, and 2018).

## MENTORING, SUPERVISING, AND ADVISING

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- ❖ **Agricultural Economics and Rural Sociology, Auburn University**
  - ◆ Ph.D. Students in Applied Economics: Azaz Zaman (2022–2025), Brian Cornish (2022–2024), Nabin Bhandari (2022–2025), Pritam Mitra (2022–2025).
  - ◆ MS Student in Agricultural Economics: Ngbede Musa (2022–2024).
- ❖ **Policy Research Boot Camp, Governance Lab of Daayitwa Abhiyaan Nepal, Summer 2024.**
  - ◆ Provided guided mentorship to four early career policy researchers to develop policy briefs and scientific manuscripts. Links: <https://www.govlab.com.np/> and <https://daayitwa.org/>.
- ❖ **Global Sustainability Project, How to Change the World, Winter 2024.**
  - ◆ Guided 200 students from 12 universities to build sustainable and innovative solutions for a green economy and an equitable future. Links: <https://bit.ly/43co4Vx> and <https://bit.ly/49XC20l>
- ❖ **Niblack Research Scholar Program, Oklahoma State University, August 2019 – July 2020.**
  - ◆ Graduate mentor of undergraduate senior Katelyn Jeffries (published peer-reviewed paper).

## AWARDS, FELLOWSHIPS, AND RECOGNITION <sup>7</sup>

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12. AAEA Trust Scholarship, International Workshop on Survey Design and Experimental Methods in Applied and Agricultural Economics, 2024 (US\$500, Offer rejected).
11. GPSGA Travel Grant, OSU, 2019, 2022 (US\$100\*3 = US\$300).
10. Eugene and Doris Miller Distinguished Graduate Fellowship, OSU, 2021 (US\$2,500).
9. Robertson Summer Dissertation Fellowship/Research and Creative Activity Grants, OSU, 2021 (US\$6,000 + 3 credit hours summer tuition).
8. The Afanasiev Distinguished Graduate Fellowship, OSU, 2019, 2020, and 2021 (US\$2,500 \* 3 = US\$7,500).
7. GPSGA Group Fund Grant, OSU, 2020 (US\$400).
6. Third, Student Oral Presentation, Association of Nepalese Agricultural Professionals of Americas Biennial Conference, 2018 (US\$100).
5. Academic Excellence Award (MS), Kentucky State University, 2017.

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<sup>7</sup> **Total Fellowship:** Received: ~ US\$ 22,000.

4. Third, Graduate Student Competition Oral Presentation, Association of 1980 Researchers Directors (ARD) Bi-annual Symposium, 2017 (US\$100).
3. Second, Graduate Research Oral Presentation, Kentucky Academy of Science (KAS) 2016 Annual Meeting, 2016.
2. Finalist, Get Involved! Take Action! ISIC International Youth Photo Competition, 8th UNESCO Youth Forum, Paris, France, 2013. Link: <https://bit.ly/48tLrf4>.
1. Multiple merit-based scholarships, Tribhuvan University, Nepal, 2009–2013.

## PRESENTATIONS AND PUBLIC SPEAKING <sup>8</sup>

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### Oral Presentations:

11. **Mishra, B., (2025).** Lightening talk: five minutes summary of sustainable aviation fuel and agri-voltaics research, *Jimmy and Rosalynn Carter School of Public Policy, Georgia Institute of Technology, Atlanta, GA.* Date: December 11, 2025.
10. Anand, M., **Mishra, B.\***, Miao, R., Khanna, M. (2025). Exploring feedstock pathways to three billion gallons of sustainable aviation biofuel: the role of contracts and bioenergy crop insurance, *42nd USAEE/IAEE North American Conference*, Fort Worth, TX. Date: November 16-19, 2025.
9. Anand, M., **Mishra, B.\***, Miao, R., Khanna, M. (2025). Exploring feedstock pathways to three billion gallons of sustainable aviation biofuel: the role of contracts and bioenergy crop insurance, *Southeastern Workshop on Energy & Environmental Economics & Policy (SWEEEP)*, Atlanta, GA. Date: October 16-17, 2025.
8. Mwebaze, P., **Mishra, B.**, Jaheed, F., Miao, R., Khanna, M. (2025). Scaling up agrivoltaics: drivers and challenges, *2025 SAS Meeting*. Virtual. Date: July 15-16, 2025.
7. Joshi, O., **Mishra, B.** (2022). Financial return associated with active forest management: implications for the community forestry management in Nepal, *7th Community Forestry National Workshop Nepal*, Department of Forest and Soil Conservation, Government of Nepal. Date: June 12–14, 2022 (Invited).
6. **Mishra, B.**, Will, R.E., Joshi, O. (2022). Willingness to pay for deer hunting using best-worst choice, *The International Society of Forest Resource Economics Annual Meeting*, Traverse City, MI. Date: May 23–25, 2022.
5. **Mishra, B.**, Will, R.E., Joshi, O. (2022). Peer pressure, self-efficacy, outcome expectancy, and moral values predict intentions for active management of ecosystems in Oklahoma, *Southern Rural Sociological Association (SRSA) Annual Meeting*, New Orleans, LA. Date: February 13–14, 2022.
4. Jeffries, K., **Mishra, B.**, Joshi, O. (2021). Preventing further spread of eastern redcedar (*Juniperus virginiana*) in the southern great plains, *The International Society of Forest Resource Economics (ISFRE) Symposium*, Virtual. Date: May 18–19, 2021.
3. **Mishra, B.**, Joshi, O., Will, R.E. (2021). Attitudes and intentions of landowners towards active management of US south-central transitional ecoregion for deer hunting, *The International Society*

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<sup>8\*</sup> signifies primary speaker in coauthored presentations.

Presentations prior 2020 are excluded. List may include the same paper presented in multiple avenues.



*of Forest Resource Economics (ISFRE) Symposium, Virtual. Date: May 18 – 19, 2021.*

2. **Mishra, B.**, Joshi, O., Will, R.E. (2020). Understanding climate change resiliency of South-Central Transitional Ecotone, *U.S. Society of American Foresters (SAF) National Convention, Virtual. Date: October 29–31, 2020.*
1. **Mishra, B.**, Joshi, O., Will, R.E. (2020). Understanding climate change resiliency of Oklahoma forests using FVS and conjoint analysis, *Oklahoma Natural Resource Conference (OKNRC), Norman, OK. Date: February 10–13, 2020.*

### **Poster Presentations:**

5. **Mishra, B.**, Mwebaze, P., Miao, R., Khanna, M., Pascaris, A., McCall, J., Hernandez, C., Majeed, F. (2025). Can agrivoltaics ease opposition to solar energy development? Insight from the U.S. solar stakeholders survey, *Solar Farm Summit, Chicago, IL. Date: August 4-7, 2025.*
4. Mwebaze, P., Khanna, M., Majeed, F., McCall, J., **Mishra, B.**, Miao, R. (2025). Farmer preference for agrivoltaics in the U.S. Midwest, *Solar Farm Summit, Chicago, IL. Date: August 4-7, 2025.*
3. **Mishra, B.**, Mwebaze, P., Miao, R., Khanna, M. (2024). Solar developers survey on agrivoltaics, *Solar Farm Summit, Chicago, IL. Date: July 8-11, 2024.*
2. Ngbede, M., Ruiqing, M., Khanna, M., **Mishra, B.**, Mwebaze, P. (2023). Modeling specialty crop-based agrivoltaic system profit from Arizona and Alabama, *Graduate Research Poster Showcase, Auburn University, Auburn, AL. Date: October 26, 2023.*
1. Ngbede, M., **Mishra, B.**, Mwebaze, P., Ruiqing, M., Khanna, M. (2023). Optimizing profitability of high-value crops in Agrivoltaics systems (tomato and lettuce) in Arizona and Alabama. Poster. *SCAPES Annual Retreat, Denver, CO. Date: September 13-15, 2023.*

### **MEDIA COVERAGE AND FEATURED**

3. Member spotlight featured—Bijesh Mishra, *Nepali Academics in America Newsflash, 2025, Vol 5, Issue 1, Page 9, Nepali Academics in America. Link: <https://bit.ly/42wW14V>*
2. Pyakurel, D. (July 9, 2019). Kathmandu is getting hotter every year, but districts nearby are heating up more quickly. *Online Khabar English. Link: <https://bit.ly/3B3LuOT>*
1. Pyakurel, D. (July 9, 2019). *Kathmandu Taatdaai Chha! [Heating up Kathmandu!]. Online Khabar Nepali. Link: <https://bit.ly/32Ux3js>*

### **RELEVANT TRAINING AND CERTIFICATIONS**

- ❖ Compass Foundational Training and Mentoring Program, Spring 2025, directed by Washington University School of Medicine in St. Louis. Link: <https://bit.ly/42pQuN8>.
- ❖ Fundamentals of Deep Learning, NVIDIA. Link: <http://bit.ly/40PBTYv>.
- ❖ Benefit-Cost Analysis: Valuing Life and Health, Harvard University T.H. Chan School of Public Health. CeDiD: 226K-8KDC-BCAC. Link: <https://bit.ly/3VnwTrs>.
- ❖ SAS Programming 1 Essentials, SAS Institute. Link: <https://bit.ly/3HZjAXS>.
- ❖ MATLAB Onramp, Mathworks. Link: <https://bit.ly/3NAniIp>.

## JOURNAL INVOLVEMENT

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- ❖ **Reviewer:** [Economic Analysis and Policy](#), [Agricultural Economics](#), [Journal of Applied Economics](#), [Journal of Environmental Management](#), [Journal of Forestry](#), [Poverty & Public Policy](#), [Environment, Development and Sustainability](#), [Tourism Review International](#), [Nepal Public Policy Review](#), [People and Nature](#), [Heliyon](#), [Energies](#), [Land](#), [Forests](#), [Sustainability](#), [International Journal of Environmental Research and Public Health](#), [Global Journal of Agriculture and Allied Sciences](#), [Journal of Nepal Agricultural Research Council](#), [Journal of Agriculture and Natural Resources](#).
- ❖ **Editor:** [International Journal of Environment](#) (Managed by [Tribhuvan University](#) Central Library, Nepal), (2019 - 2021).

## PROFESSIONAL AFFILIATIONS

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United States Association for Energy Economics ( <a href="#">USAEE</a> )	2025 — Current
International Association for Energy Economics ( <a href="#">IAEE</a> )	2025 — Current
National Postdoctoral Association ( <a href="#">NPA</a> )	2022 — Current
Nepali Academics in America ( <a href="#">NACA</a> )	Lifetime Member
Association of Nepalese Agricultural Professionals of Americas ( <a href="#">NAPA</a> )	Lifetime Member
American Association of Geographers ( <a href="#">AAG</a> )	2016 — 2018
Southern Association of Agricultural Scientists ( <a href="#">SAAS</a> )	2021 — 2022, 2015 — 2018
Southern Agricultural Economics Association ( <a href="#">SAEA</a> )	2021 — 2022, 2015 — 2018
Southern Rural Sociological Association ( <a href="#">SRSA</a> )	2021 — 2022, 2015 — 2017
Society of American Foresters ( <a href="#">SAF</a> )	2020 — 2022
Kentucky Academy of Science ( <a href="#">KAS</a> )	2015 — 2019
Kentucky Association of Mapping Professionals ( <a href="#">KAMP</a> )	2015 — 2017
NIST Alumni Association, Nepal ( <a href="#">NISTAA</a> )	Lifetime Member
Xi Sigma Pi, Alpha Mu Chapter ( <a href="#">ΞΣΠ αμ</a> )	Lifetime Member

## SERVICES

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- ❖ Advisor, National Policy Forum ([NPF](#)), Nepal, July 2024 — Current.
- ❖ Nepali Academics in America ([NACA](#))
  - ◆ NACA expert pool for the High-level Economic Reform Advisory Commission of Nepal, 2024.
  - ◆ Program and Event Committee, May 2025 — August 2025.
- ❖ Association of Nepalese Agriculture Professionals of America ([NAPA](#))
  - ◆ Mini-grant Proposal Reviewer, 2025.
  - ◆ Collaboration and Resource Building Committee (CRBC), 2024.
  - ◆ Guest Editor, Agri-connection Quarterly Newsletter, 2023.
  - ◆ Member, Information Technology (IT) Committee, 05/2022 — 04/2024.
  - ◆ Executive Committee Member, 05/2018 — 04/2020.
  - ◆ Volunteer, IT Support, First Biannual Conference Organizing Committee, 2018.
- ❖ Judge, Graduate Research Poster Showcase, Auburn University, 2023, 2024.
- ❖ Judge, Annual Student Research Symposium, Auburn University, 2023, 2024, 2025.

- ❖ Judge, Annual Undergraduate Research Symposium, Oklahoma State University, 2022.
- ❖ President (09/2021 — 08/2022) and Vice President (08/2020 — 09/2021), Nepalese Student Association, Oklahoma State University, Stillwater, OK.
- ❖ Center for Ecology and Evolution Conference (CEEC) Organizing Committee, 2021.
- ❖ Vice President Intern, International Student Organization (ISO), OSU, 2020.
- ❖ NREM Graduate Student Organization (NREM-GSO) Board Member, 08/2019 — 07/2021.
- ❖ Graduate and Professional Students Government Association (GPSGA) Representative, Constitution and Bylaws and Intergovernmental Liaison Sub-committee member, 08/2019 — 07/2021.
- ❖ Editorial Board Member, Agriculture Graduates Profile 2013, Institute of Agriculture and Animal Science, Tribhuvan University, Nepal.
- ❖ President, Gandaki Student Society, Institute of Agriculture and Animal Science, Tribhuvan University, Nepal, 06/2012 — 05/2013.
- ❖ Editorial Board Member, Explorer 2008, an Annual Magazine, National School of Sciences, Lainchour, Kathmandu, Nepal.