CURRICULUM VITAE

University of Idaho

NAME: Acharya, Pramod

DATE: January 17, 2025

RANK OR TITLE: Assistant Professor & Extension Specialist - Forage Agronomy

DEPARTMENT: Plant Sciences

OFFICE LOCATION AND CAMPUS ZIP:
Kimberly R&E Center,
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DATE OF FIRST EMPLOYMENT AT UI: January 6, 2025

DATE OF TENURE: Untenured

DATE OF PRESENT RANK OR TITLE: January 6, 2025

EDUCATION BEYOND HIGH SCHOOL:

Degrees:
Ph.D., New Mexico State University, Las Cruces, NM, USA (2023, Plant and Environmental Sciences)
M.S., Eastern New Mexico University, Portales, NM, USA (2019, Biology)
B.S., Tribhuvan University, Lamjung, Nepal (2014, Agriculture)

EXPERIENCE:

Teaching, Extension and Research Appointments:
Assistant Professor and Extension Specialist - Forage Agronomy, University of Idaho, Department of Plant Sciences (2025–present)
Postdoctoral Research Associate, New Mexico State University, Agricultural Science Center, Clovis, NM (2023–2024)
Graduate Research and Teaching Assistant, New Mexico State University, Las Cruces, NM (2019–2023)
Graduate Teaching Assistant, Eastern New Mexico University, Portales, NM (2017–2019)

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:
hay and silage production,
forage quality,
soil health,
nutrient management,
carbon sequestration,
greenhouse gas emissions

Courses Taught:
Environmental Sciences Laboratory, ES 110G, (2020)
Soils Laboratory, SOILS 252L, (2020)
General Biology I: Subcellular through Organismic Biology, BIOL 154L (2017–2018)
Biology for General Education, BIOL 113L (2017–2018)

Honors and Awards:
Gerald O. Mott Award, ASA-SSSA-CSSA (2023)
A. K. Dobrenz Student Award, Western Society of Crop Science (2022)
Bayer Crop Science Encompass Scholar (2021–2022)
Merit Scholarship, Tribhuvan University (2010–2014)

SCHOLARSHIP ACCOMPLISHMENTS:

Publications, Exhibitions, Performances, Recitals:

Refereed/Adjudicated:

Ghimire, R., Thapa, V. R., **Acharya, P.**, Wang, J., and Sainju, U. M. 2021. Soil indicators and management strategies for environmental sustainability. *In*: Rakshit, A., Singh, S., Abhilash, P., and Biswas, A. (Eds). Soil Science: Fundamentals to Recent Advances. Springer, Singapore. [https://doi.org/10.1007/978-981-16-0917-6_7]

Ghimire, R., Sapkota, S., Singh, A., **Acharya, P.**, Frene, J. P., and Bista, P. Regenerative agriculture for soil health and sustainability in a changing world. *In*: Nanjappa, G., Parajulee, M. N., and Kole, C. (Eds.). NextGen Strategies of Crop Production for Agricultural Sustainability and Food Security. CRC Press, Boca Raton, Florida, USA. [*In press*]

Peer Reviewed/Evaluated:

Acharya, P., Ghimire, R., Idowu, O. J., Shukla, M. K., 2024. Cover cropping enhanced soil aggregation and associated carbon and nitrogen storage in semi-arid silage cropping systems. *Catena* [https://doi.org/10.1016/j.catena.2024.108264]

Bista, D., Sapkota, S., **Acharya, P.**, Acharya, R., Ghimire, G., 2024. Reducing energy and carbon footprint in diversified semi-arid irrigated cropping systems. *Heliyon* [https://doi.org/10.1016/j.heliyon.2024.e27904]

Singh, A., Ghimire, R., **Acharya, P.**, 2024. Soil profile carbon sequestration and nutrient responses varied with cover crops in irrigated forage rotations. *Soil and Tillage Research* [https://doi.org/10.1016/j.still.2024.106020]

Acharya, P., Ghimire, R., Acosta-Martínez, V., 2024. Cover crop mediated soil carbon storage and soil health in semi-arid irrigated cropping systems. *Agriculture, Ecosystems and Environment* [https://doi.org/10.1016/j.agee.2023.108813]

Adhikari, A. D., Shrestha, P., Ghimire, R., Liu, Z., Pollock, D. A., **Acharya, P.**, Aryal, D. R., 2024. Cover crop residue quality regulates litter decomposition dynamics and soil carbon mineralization kinetics in semi-arid cropping systems. *Applied Soil Ecology* [https://doi.org/10.1016/j.apsoil.2023.105160]

Paye, W. S., Lauriault, L., **Acharya, P.**, Ghimire, R., 2024. Soil carbon and nitrogen responses to dryland forage cropping systems following irrigation retirement. *Agronomy Journal* [https://doi.org/10.1002/agj2.21523]

Acharya, P., Ghimire, R., Lehnhoff, E. A, Marsalis, M. A., 2023. Cover crop forage potential and subsequent sorghum silage yield and nutritive value. *Agronomy Journal* [https://doi.org/10.1002/agj2.21334]

Acharya, P., Ghimire, R., Paye, W. S., Galguli, A. C., DelGrosso, S. J., 2022. Net greenhouse gas balance with cover crops in semi-arid irrigated cropping systems. *Scientific Reports* [https://doi.org/10.1038/s41598-022-16719-w]

Paye, W. S., **Acharya, P.**, Ghimire, R., 2022. Water productivity of forage sorghum in response to winter cover crops in semiarid irrigated conditions. *Field Crops Research* [https://doi.org/10.1016/j.fcr.2022.108552]

Acharya, P., Ghimire, R., Cho, Y., Thapa, V. R., Sainju, U. M., 2022. Soil profile carbon and nitrogen and crop yield responses to cover crops in a limited irrigation winter wheat-sorghum-fallow. *Nutrient Cycling in Agroecosystems* [https://doi.org/10.1007/s10705-022-10198-1]

Paye, W. S., Ghimire, R., **Acharya, P.**, Nilahyane, A., Mesbah, A. O., Marsalis, M. A., 2022. Cover crop water use and corn silage production in semi-arid irrigated conditions. *Agricultural Water Management* [https://doi.org/10.1016/j.agwat.2021.107275]

Ghimire, R., Parajulee, M. N., **Acharya, P.**, Dhakal, D. P., Hakeem, A., Lewis, K. L., 2021. Soil acidification in a continuous cotton production system. *Agricultural & Environmental Letters* [https://doi.org/10.1002/ael2.20048]

Acharya, P., Ghimire, R., Cho, Y., 2019. Linking soil health to sustainable crop production: dairy compost effects on soil properties and sorghum biomass. *Sustainability* [https://doi.org/10.3390/su11133552]

Other:

Ghimire, R., **Acharya, P.** 2023. Cover cropping as nitrogen management tool in silage crop production. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Ghimire, R., Paye, W. S., Lauriault, L., **Acharya, P.** 2023. Changes in soil carbon and nitrogen while transitioning from irrigated croplands to dryland forage production. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Ghimire, R., Marsalis, M. A., Bell, J., **Acharya, P.**, Ogunleye, A. 2023. Temporal variability in soil health indicators within limited-irrigation perennial forage systems. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Acharya, P., Ghimire, R., 2023. Cover crops for improving nitrogen use efficiency in a semiarid irrigated forage rotation. Final Project Report, Western Sustainable Agriculture Research and Education (WSARE).

Ghimire, R., **Acharya, P.**, Thapa, V. R., Paye, W. S., 2022. Carbon sequestration and soil health improvements in arid and semiarid croplands. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Ghimire, R., **Acharya, P.**, 2022. Soil profile carbon and nitrogen in limited-irrigation winter wheat-sorghum fallow rotation. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Ghimire, R., **Acharya, P.**, 2021. Greenhouse gas balance of semi-arid irrigated cropping systems. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Ghimire, R., **Acharya, P.**, Paye, W. S., 2020. Cover crops affect greenhouse gas emissions and crop yield in irrigated forage production. Annual Progress Report, NMSU Agricultural Science Center at Clovis, NM.

Acharya, P., Kafle, K., Ojha, M., Sapkota, P. 2014. Impact of integrated pest management - farmers' field school training on farmers of Lamjung district. Research and Development Centre, Tribhuvan University.

Grants and Contracts Awarded:

Acharya, P., Ghimire, R., Cover crops for improving nitrogen use efficiency in a semiarid irrigated forage rotation, 2021–2023, Western Sustainable Agriculture Research and Education (SARE), Funded, **$20,612.00**

Acharya, P., Soil nutrients and above and belowground biomass partitioning with compost application rates in winter wheat, 2018–2019, Eastern New Mexico University, Graduate Student Grant, Funded, **$400.00**

SERVICE:

Professional and Scholarly Organizations

Member of American Society of Agronomy
Member of Soil Science Society of America
Member of Crop Science Society of America

PROFESSIONAL DEVELOPMENT:

Scholarship:

2024 New Mexico Soil Health and Soil Carbon Conference, Albuquerque, NM, July 31st–Aug 1st.
2023 Workshop on Carbon Farming in New Mexico, NMSU Carbon Management and Soil Health Initiative, Albuquerque, NM, July 26.
2021 Graduate Student Leadership Conference. ASA-CSSA-SSSA, Salt Lake City, UT, Nov 6–7.
2019 Innovative Farming Conference, Central Curry and Roosevelt Soil and Water Conservation District, Clovis, NM. Dec 5.
2018 Student Leadership Conference, Silver City, NM. Oct 26–27.