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## BADRI GHIMIRE, PHD FELLOW

Editorial Board Member- Asian Journal of Conservation Biology,  
Department of Natural Resources Management,  
Texas Tech University  
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### EDUCATION

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|-----------------------------|---|---------------|
| Texas Tech University       | PhD, Wildlife, Aquatic, and Wildlands Science and Management,<br>“ <i>Plant-fire interactions</i> ”. Advisor: Dr. Nathan S. Gill<br>Funded by National Needs Fellowship (NNF) for Doctoral research.                                  | 2022- present |
| California State University | MS, Biological Sciences<br>“ <i>Links in food webs among deer, manzanita, and manzanita leaf-gall aphids in the Big Chico Creek Ecological Reserve near Chico, California</i> ”. Advisor: Dr. Donald G. Miller                        | 2020          |
| Tribhuvan University        | MSc, Environmental Science<br>“ <i>Socio-economic status and understanding biodiversity conservation in Bhandara Buffer Zone Village Development Committee, Chitwan National Park, Nepal</i> ”.<br>Advisor: Late Dr. Pralad B. Yonzon | 2005          |
| Tribhuvan University        | BSc, Environmental Science  | 2003          |

### TEACHING EXPERIENCE

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|--------------|---|
| 2023-present | <b>Teaching Assistant.</b> Texas Tech University, Lubbock, Texas.<br>NRM 2400: The Art and Science of Geographic Information (undergraduates; 3 credits).<br><br>NRM 3323: Prescribed Burning (graduates/undergraduates; 3 credits).  |
| 2021-2022    | <b>Lecturer.</b> California State University, Chico, California.<br>BIOL 152: Principles of Principles of Ecological, Evolutionary, and Organismal Biology (undergraduates; 3 credits).<br><br>EARTH 130: Introduction to Environmental Science (undergraduates; 3 credits).<br><br>BIOL 102: Introduction to Living Systems (undergraduates; 3 credits). |
| 2018-2020    | <b>Instructor.</b> Yuba College, Marysville, California.<br>BIOL 4. Human Anatomy (undergraduates; 3 credits).<br><br>BIOL 24. Human Biology (undergraduates; 3 credits).<br><br>BIOL 15. General Biology (undergraduates; 3 credits).  |
| 2014-2020    | <b>Teaching Assistant.</b> California State University, Chico, California.<br>BIOL 152: Principles of Principles of Ecological, Evolutionary, and Organismal Biology (undergraduates; 3 credits).<br><br>BIOL 105: Food, Fiber, and Drugs (undergraduates; 3 credits).<br><br>BIOL 102. Introduction to Living Systems (undergraduates; 3 credits).       |

- 2009-2011 **Lecturer.** Sann International College, Kathmandu, Nepal.  
Environmental Biotechnology (undergraduates; 3 credits).
- 2006-2009 **Teacher.** Siddhartha Vanasthali Institute, Kathmandu, Nepal.  
Biology, Chemistry, and Mathematics (high school courses).
- 2002-2003 **Teacher.** Buddha Jyoti Academy, Kathmandu, Nepal.  
Biology and Mathematics (high school courses).

### **PROFESSIONAL EXPERIENCE**

- 2021 **Biologist.** Gallaway Enterprises, Chico, California.  
Conducted wildlife habitat assessments for species of special concern.  
Surveyed sensitive species (e.g., giant garter snake, Pacific fisher, Sonoma tree vole, California red-legged frog, nesting birds) and prepared reports.  
Monitored environmental compliance and evaluated water quality at construction sites.  
Delivered worker awareness training and prepared biological constraints reports.
- 2015-2016 **Design Team Member.** Hooker Oak Elementary School, Chico, California.  
Designed a nature center with native plants, integrated into the Elementary School curriculum.  
Organized monthly meetings with the principal and parents for updates.
- 2014-2016 **Member.** Big Chico Creek Ecological Reserve Annual Butterfly Count, Chico, California.  
Counted butterfly species and their number in various habitats in the Reserve.  
Reported the number and species of butterflies to the coordinator to evaluate different habitats.
- 2014-2016 **Research Associate.** California State University, Chico, California (NSF funded project- *Harnessing the Power of Herbaria to Understand the Changing Flora of California: A Biodiversity Hotspot in Peril*).  
Georeferenced target herbarium species  
Led weekly meetings to ensure accuracy and consistency in georeferencing plant specimens.
- 2014 **Research and Design Team Member.** California State University, Chico, California.  
Designed a phenology garden with California native plants.
- 2013-2014 **Wildlife Caretaker,** Berry R. Kirshner Wildlife Sanctuary, Oroville, California.  
Administered medication, provided feeding, and performed cleaning.
- 2005-2011 **Field Supervisor.** Resources Himalaya Foundation, Kathmandu, Nepal.  
Conducted pellet count methods for wildlife population estimation.  
Led vegetation sampling and socioeconomic surveys for community-managed forests.
- 2008 **Coordinator.** Japan International Cooperation Agency, Kathmandu, Nepal.  
Organized a field study on the environmental impact of a hydropower project in Western Nepal.  
Conducted vegetation surveys and analyzed local biodiversity conservation issues.
- 2004-2006 **Consultant.** Nepal Quality Management Service, Kathmandu, Nepal.  
Conducted ISO 9001:2000 Quality Management and ISO 14001:2004 Environmental Management System training for the ISO certification for local business owners.  
Coordinated training on record keeping, document management, and marketing development.

### **PAST RESEARCH PROJECTS**

- 2005 A case study on wastewater treatment plant in Hetauda Industrial District, Nepal.

(Electronically published and available in the Central Department of Environmental Science, Tribhuvan University, Kathmandu, Nepal)

2005 Environmental study of Phewa Lake Watershed, Kaski, Nepal.  
(Electronically published and available in the Central Department of Environmental Science, Tribhuvan University, Kathmandu, Nepal)

2005 Environmental study of Begnas Lake Watershed, Kaski, Nepal.  
(Electronically published and available in the Central Department of Environmental Science, Tribhuvan University, Kathmandu, Nepal)

### **MANUSCRIPTS UNDER PREPARATION**

Gill, N. S., P. Adams, D. Bowers, A. Cupito, **B. P. Ghimire**, A. Mahmud, and M. S. Porter. Five pillars of pyrogeography: A meta-review. Target journal: Annals of the American Association of Geographer.

**Ghimire B. P.**, D. G. Miller, C. A. Hatfield, and E. A. Roualdes. Does deer browsing affect tamalia galling aphid populations on manzanita host plants? Target Journal: Oecologia.

### **JOURNAL REVIEWER (WITH DR. NATHAN GILL)**

2024 Forest Ecology and Management

2024 Ecological Monographs

2023 Journal of Vegetation Science

### **PRESENTATIONS**

#### INVITED

2014 **Ghimire, B.** Trophic Interactions among Deer, Manzanita, and Manzanita Leaf-gall Aphids in the Big Chico Creek Ecological Reserve near Chico, California.” Friends of the Chico State Herbarium, California State University, Chico, California.

#### CONTRIBUTED

2024 **Ghimire, B.** and N. Gill (poster). Response of Ponderosa pine (*Pinus ponderosa*) Trees to Varying Fire Intensities. Fourth Southwestern Fire Ecology Conference, Santa Fe, New Mexico.

2023 Norvell, C., **B. Ghimire**, and N. Gill (poster). Using an Additional Composite Burn Index (CBI) Rating to Represent High Severity Wildfires in Northern Colorado. International Association for Landscape Ecology- North American Regional Chapter Annual Meeting, Riverside, California.

2023 **Ghimire, B.** and N. Gill (poster). Using an Additional Composite Burn Index (CBI) Rating to Represent High Severity Wildfires in Northern Colorado. American Association of Geographers Annual Meeting, Denver, Colorado.

2017 **Ghimire, B.** (poster). Does Deer Browsing Affect Tamalia Galling Aphid Populations on Manzanita (*Arctostaphylos* spp.) Host Plants? Western Section Wildlife Society Annual Meeting, Reno, Nevada.

2015 **Ghimire, B.** (poster). Trophic Interaction among Deer, Manzanita, and Manzanita Leaf-gall Aphids in the Big Chico Creek Ecological Reserve near Chico, California. Western Section Wildlife Society Annual

Meeting, Santa Rosa, California.

- 2014 **Ghimire, B.** (poster). Does Deer Browsing Affect Tamalia Galling Aphid Populations on Manzanita (*Arctostaphylos* spp.) Host Plants? Entomological Society of America, Portland, Oregon.
- 2014 **Ghimire, B.** (poster). Trophic Interaction among Deer, Manzanita, and Manzanita Leaf-gall Aphids in the Big Chico Creek Ecological Reserve near Chico, California. Western Section Wildlife Society Annual Meeting, Reno, Nevada.

### **MEDIA OUTREACH**

- 2024 Wildfire seasons are starting earlier and getting longer. Article by Denise Chow for NBC News (interviewed alongside Dr. Nathan Gill and Maria Anastacio). Full story: [Here](#).
- 2016 Supporting North State Resources: Chico State's Herbarium is a key contributor to local ecological research. Article by Nicole Williams for Inside Chico State (interviewed alongside Kristin Quigley). Full story: [Here](#).

### **FELLOWSHIP**

- 2022-2026 National Needs Fellowship (NNF) for Doctoral Research, Texas Tech University (\$80,000).

### **GRANTS AND AWARDS**

- 2025 **Student Association for Fire Ecology (SAFE) Grant.** Texas Tech University, Lubbock (\$1,000).
- 2024 **Student Association for Fire Ecology (SAFE) Grant.** Texas Tech University, Lubbock (\$700). (Led proposal writing with support from Maria Anastacio and Catherine Castagnet)
- 2014-2016 **Travel Grant.** California State University, Chico, California (\$1,048).
- 2015 **Sage Garden Grant.** Chico, California (\$500).
- 2014-2015 **Wes Dempsey Field Research Award.** California State University, Chico, California (\$3,100).
- 2014 **Vesta Holt Field Studies Merit Project Award.** California State University, Chico, California (\$1,380).
- 2014 **Jim Jokerst Field Botany Award.** California State University, Chico, California (\$1,000).
- 2005 **Research Grant.** Resources Himalaya Foundation, Kathmandu, Nepal (\$200).

### **PROFESSIONAL TRAINING AND CERTIFICATION**

- 2023 **Quantitative Wood Anatomy using ROXAS- from samples to data.** Center of Studies of Alpine Environment, San Vito di Cadore, Italy.
- 2021 **Wildland Firefighter II.** Chico, California.
- 2016 **Introduction to Keying Manzanitas (*Arctostaphylos*, Ericaceae).** Chico, California.
- 2006 **Initial Environmental Assessment.** Kathmandu, Nepal.
- 2006 **Micro-enterprise Training.** Kathmandu, Nepal

- 2006            **Environmental Impact Assessment.** Kathmandu, Nepal.
- 2005            **Geographic Information System and Remote Sensing.** Kathmandu, Nepal.
- 2005            **Non-timber Forest Product Management.** Kathmandu, Nepal.
- 2005            **Participatory Rural Appraisal.** Kathmandu, Nepal.

#### **LEADERSHIP/SERVICE**

- 2025- current    **President.** Student Association for Fire Ecology (SAFE), USA.
- 2023-2025       **President.** Student Association for Fire Ecology (SAFE), Texas Tech University chapter, Lubbock.
- 2022-2023       **Officer.** Student Association for Fire Ecology (SAFE), Texas Tech University, Lubbock.
- 2006            **Founding Member.** Environmental Graduates in Himalaya (EGH), Kathmandu, Nepal.
- 2004-2005       **Treasurer.** Society of Environmental Science Students (SESS), Tribhuvan University, Kathmandu, Nepal.

#### **AFFILIATIONS**

- 2025-present    Tree Ring Society
- 2022-present    Association for Fire Ecology
- 2022-present    American Association of Geographers
- 2014-2015       Entomological Society of America
- 2013-2018       Western Section Wildlife Society