

Dr. SHER SHAH

Assistant Professor

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ACADEMIC BIOGRAPHY

I am Dr. Sher Shah, working as an Assistant Professor at Institute of Forest Sciences at University of Swat. Previously I was affiliated as an IPFP Fellow with Department of Forestry and Wildlife Management, The University of Haripur. I have successfully completed NFDP training organized by National Academy of Higher Education (NAHE), Higher Education Commission, Islamabad. My research interests are dendroclimatology and tree ring growth dynamics. During my academic career, I have published over 30 research articles in a peer reviewed national/international journal.

In 2019, completed my PhD in Forest Management from College of Forestry, Beijing Forestry University, Beijing, China. My doctoral research focus was on the dendroclimatology of Siberian pine (*Pinus sibirica*). As a part of research, I participated in a tree ring sampling project carried out in Mangui, Inner Mongolia and Changbai Mountains, northeast China. Moreover, I also attended several training courses at Saihanba Forest Farm, and witnessed conversion of desert land into lush green forest. Furthermore, I participated in 28th European Dendroecological Fieldweek, Lanjsko Polea, Croatia, organized by Swiss Federal Research Institute, Switzerland.

EDUCATIONAL BACKGROUND

- | | |
|--------------|---|
| 2019. | Ph.D. [Forest Management] <u>Supervisor</u> Prof. <i>Qijing Liu</i>
College of Forestry,
Beijing Forestry University |
| 2015. | M.Phil. [Forest Management & Wildlife Management]
Department of Forestry and Wildlife Management,
University of Haripur. |
| 2011. | B.S. [Forestry]
Department of Forestry,
Shaheed Benazir Bhutto University, Dir (U) |
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CURRENT PROJECTS *(Principal investigator)*

- **Higher Education Commission, NRP (5.3 million)**
“Dendrochronological analysis of Ancient Juniper Forest at Ziarat Baluchistan”.
- **Higher Education Commission, SRGP (01 million)**
“Dendrochronological analysis of the historical forts of Chitral and Gilgit Baltistan”.

HIGHER EDUCATION TRAINING AND AWARDS

- Associate Fellow (AFHEA), UK Professional Standards Framework for teaching and learning support in Higher Education. Fellowship Reference (PR235696), Date of Fellowship (26-04-2022).
- **"Fundamentals of Project Management"** online course (15-Hours) offered by National Academy of Higher Education, HEC in collaboration with Oxon Global from 27 March 2021 to 03 April 2021.
- **National Faculty Development Program 2020**, National Academy of Higher Education, Higher Education Commission of Pakistan (HEC). 8th June - 4th July, 2020.
- **“Capacity Building Training for Focal Persons and Oversight Committee Members of Green Youth Movement Club (GYM Clubs)”** held from December 08-12, 2025 at Abdul Wali Khan University Mardan, Organized by Higher Education Commission (HEC) Pakistan and British Council, Islamabad.

JOB EXPERIENCE

a) Lecturer

Institute of Forest Science, University of Swat.

Joining Date:

13 April, 2021 – till date

b) IPFP Fellow

Department of Forestry & Wildlife Management, University of Haripur

Joining Date:

10 August, 2020 – 12 April, 2021.

Courses:

Range Management	(Semester 2 nd)
Forest Protection	(Semester 3 rd)
Participatory Forestry	(Semester 5 th)
Forest Utilization	(Semester 7 th)
Wood Science & Technology	(Semester 6 th)
Forest Engineering	(Semester 4 th)

c) Pakistan Wetlands Program

Organization: **World Wide Fund for Nature (WWF)**

Duration: Three Months (From 5-April 2012 to 30-June-2012)

Designation: Internee/Conservation Officer

d) Reducing Emission from Deforestation and Forest Degradation (REDD+)

Organization: **World Wide Fund for Nature (WWF)**

Duration: Three Months (From 05 November 2012 to 5 February 2013)

Designation: Volunteer (Assistant Coordinator)

COURSES UNDERGRADUATE-M.PHIL. & PH.D.

- Forest Management

- Forest Mensuration (Biometrics)
- Silviculture
- Forest Ecology
- Research Methodology
- Forestry Extension
- Forest Accounting
- Forest Protection
- Forest Utilization
- Range Management
- Participatory Forestry

RESEARCH ACCOMPLISHMENTS

Total number of Publications	30
HEC Recognized Journals	26
HEC Category W	11
HEC Category X	15
Non - HEC Recognized Journals	06

- 2023 IMRAN, K., **SHAH, S.**, ALI, A., YOUSAF, A., SERT, M., MAJEED, M., ... & HUSSAIN, M DENDROCHRONOLOGICAL ANALYSIS OF THE HISTORICAL FORTS LOCATED IN CHITRAL AND GILGIT-BALTISTAN, PAKISTAN. **(X)**
- 2021 Naqas M, Hussain A, Ul Haq I, **Shah S**, Osama HM., 2021. Comparative assessment of Carbon Stock in Chir Pine Natural Forest Shinkari and man-made Plantation Parachinar, Pakistan. *International Journal of Conservation Science*. 4(12). 1441-1454. **(X)**
- 2021 Ullah, H., Hussain, A., Nizami, M., Ullah, U., & **Shah, S.** (2021). ECOTOURISM IMPACTS ON FOREST LANDSCAPE AND ATTITUDE OF COMMUNITIES IN KHANPUR, KHYBER PAKHTUNKHWA, PAKISTAN. *International Journal of Conservation Science*, 12(4). **(X)**
- 2021 Muhammad, S., Habiba, U., Raza, G., Bano, S. A., Shah, S., Sabir, M., ... & Hussain, M. (2021). Payment for ecosystem services (PES): a holistic tool for sustainable forest management-a case study from Pakistan. *Brazilian Journal of Biology*, 83. **(W)**
- 2021 Khan. A., Ahmad. M., Iqbal. J., Siddiqui. M.F., Khan. A., Shah. M., Hazrat. A., Saqib. N.U., **Shah. S.**, Bhandari. S., 2021. Tree ring-based temperature reconstruction from the western Himalayan region in northern Pakistan since 1705 CE. *Arabian Journal of Geo Sciences*. **(X)**
- 2021** Ullah, N., Bano, S. A., **Shah, S.**, Habiba, U., Sabir, M., Akhtar, A., Ramzan, S., ... & Hussain, M. (2021). Environmental impacts, water footprint and cumulative energy demand of match industry in Pakistan. *Plos one*, 16(5), e0251928. **(W)**
- 2021** **Sher Shah**, Qijing Liu. "Siberian pine growth dynamics at Altai mountains, China". *Brazilian Journal of Biology*. 26-Jan-2021. **(W)** - [IF- 1.22].
- 2020** Ahmad, S., Khan, T.U., Hacker, C., Yang, L., Nabi, G., Ullah, S., Wanghe, K., **Shah, S.**, Chen, M., Saeed, S. and Luan, X., 2020. Critical assessment of Asiatic ibex (*Capra ibex sibirica*) for sustainable harvesting in northern areas of Pakistan. *Global Ecology and Conservation*, p.e00907. **(W)**
- 2021 KHAN, A., ZHANG, X., YANG, X., ZHANG, K., HAYAT, M., XU, **SHAH, S.**,... & IQBAL, S. (2021). DYNAMICS OF SOIL NUTRIENTS AND STOICHIOMETRY IN MONGOLIAN SCOTS PINE (*PINUS SYLVESTRIS* VAR. *MONGOLICA*) PLANTATION, IN A SEMIARID AREA OF CHINA. *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*, 19(3), 1735-1751. **(X)** – [IF- 0.74]
- 2020** **Majid Hussain**, Faisal Khalid, **Sher Shah**. "An Ethno-botanical study of indigenous medicinal plants and their usage in rural valleys of Swabi and Hazara region of Pakistan". *Brazilian Journal of Biology*. **Accepted**, 6-Nov-2020. **(W)**
- 2020 Khan, T. U., X. Luan, W. Khan, S. Ahmad, A. Mannan, **S. Shah**, A. Iqbal, U. Ammara, E. U. Din, and H. Khan. "STATUS AND ATTITUDE OF LOCAL COMMUNITIES TOWARDS THE GREY WOLF (*CANIS LUPUS LINNAEUS*, 1758) IN LOWER DIR

- DISTRICT, KHYBER PAKHTUNKHWA, PAKISTAN." *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*, 18, no. 1 (2020): 129-139. (X)
- 2019 **Sher Shah**, Qijing Liu, Yu Jian, Zhou Guang and Dilawar Khan. "Potential Geo-Distribution of *Pinus sibirica* demonstrated by the climatic similarity between Western Siberia and Northeast China. *Journal of Animal and Plant Sciences*. 29(4):2019. (X)
- 2019 **Sher Shah**, Yu Jian, Qijing Liu, Shi Jingning, Dilawar Khan, Abdul Mannan and Tauheed Ullah. "Climate Growth response of *Pinus sibirica* (Siberian pine) in the Altai Mountains, Northwestern China". *Pakistan Journal of Botany*. PJB2020-2(16). (X)
- 2019 How can the shade intolerant Korean pine survive under dense deciduous canopy? Guang Zhou, Qijing Liu, Zhenzhao Xu, Wenzian Du, Jian Yu, Shengwang Meng, Hua Zhou, Lihou Qin, **Sher Shah**. *Forest Ecology and Management*. 457(2020). (W)
- 2019 Khan, T.U., Xiaofeng, L., Ahmad, S., Mannan, A., Khan, W., Khan, A.A., Khan, B.U., Din, E.U., Bhattarai, S., **Shah, S.** and Saeed, S., 2019. Status and Magnitude of Grey Wolf Conflict with Pastoral Communities in the Foothills of the Hindu Kush Region of Pakistan. *Animals*, 9(10), p.787. (X)
- 2019 Khan, D. Din, E. U. Muneer, M. A. Hayat, M. Khan, T. U. Asif, M. **Shah, S.** U Din, S. Munir, M. Z. Zaib -UN -Nisa, Yi Hong, Huang, H. Gao, L. 2019. Effect of temperature and precipitation on stem biomass and composition of white birch (*betula platyphylla*) in Daxing'anling Mountains Inner Mongolia, China. *Applied Ecology And Environmental Research*. 17(6):13945-13959. (X)
- 2019 Shi J, Xiang W, Liu Q, **Shah S.** MtreeRing: An R package with graphical user interface for automatic measurement of tree ring widths using image processing techniques. *Dendrochronologia*. 2019 Sep 23:125644. (W)
- 2019 Zhou, H.; Luo, Y.; Zhou, G.; Yu, J.; **Shah, S.**; Meng, S.; Liu, Q. Exploring the Sensitivity of Subtropical Stand Aboveground Productivity to Local and Regional Climate Signals in South China. *Forests* 2019, 10, 71. (W)
- 2019 Abdul Mannan, Adnan Ahmad, Fan Yongxiang, Feng Zhongke, Jincheng liu, Muhammad Amir, **Sher Shah**, Shahid Ahmad, Shen ChaoYong, Tauheed Ullah, Beckline mukete, Sajjad Saeed "Application of Land Use/ Land Cover Changes in Monitoring and Projecting Forest Biomass Carbon loss in Pakistan. "GECCO 2018 409". (W)
- 2019 Saeed, S., Sun, Y., Beckline, M., Chen, L., Lai, Z., Mannan, A., Ahmad, A., **Shah, S.**, Amir, M., Ullah, T. and Khan, A., 2019. Altitudinal gradients and forest edge effect on soil organic carbon in chinese fir (*Cunninghamia lanceolata*): a study from southeastern china. *Applied ecology and environmental research*, 17(1), pp.745-757. (X)
- 2019 Ahmad A, Liu Qj, Marwat Kb, **Shah S**, Amir M, Mannan A. Tree distribution pattern, growing stock characteristics and carbon mitigation potential of different forests ecosystems in Kumrat, Hindukush region of northern Pakistan. *Pak. J. Bot.*;51:6. (X)
- 2019 Khan, D., Lushuang, G., Huang, H., **Shah, S.**, Saeed, S., Uddin, S., Nabi, M., Ibrahim, A.S., Din, E.U. and Amir, M., Influence of riparian vegetation on living organisms: a case study of Dharabi watershed and Kallar Kahar Regions in Pakistan. *IJB Vol. 14, No. 2, p. 361-373, 2019.*
- 2019 Khan, D., Muneer, M.A., Nisa, Z.U., **Shah, S.**, Amir, M., Saeed, S., Uddin, S., Munir, M.Z., Lushuang, G. and Huang, H., 2019. Effect of Climatic Factors on Stem Biomass and Carbon Stock of *Larix gmelinii* and *Betula platyphylla* in Daxing'anling Mountain of Inner Mongolia, China. *Advances in Meteorology*, 2019. (X)
- 2018 Yu, Jian, Qijing Liu, Shengwang Meng, Guang Zhou, **Sher Shah**, and Zhenzhao Xu. "Summer temperature variability inferred from tree-ring records in the central Hengduan Mountains, southeastern Tibetan Plateau." *Dendrochronologia*51 (2018): 92-100. (W)
- 2018 Yu, Jian, **Sher Shah**, Guang Zhou, Zhenzhao Xu, and Qijing Liu. "Tree-Ring-Recorded Drought Variability in the Northern Daxing'anling Mountains of Northeastern China." *Forests* 9, no. 11 (2018): 674. (W)
- 2018 Alamgir Khan, Ihsan Ullah, Saad Ullah Khan, Kebin Zhang, Zair Muhammad, Sultan Mehmood Wazir, Faizan Ullah, **Sher Shah**, Liujiang Kang, Manzoor Ullah. Elemental and nutritional values of wild fodder plants of poaceae in District Bannu, Pakistan. *Int. J. Agron. Agri. Res.* 13(5), 53-61, November 2018.
- 2018 Adnan Ahmad, Muhammad Amir, Abdul Mannan, Sajjad Saeed, **Sher Shah**, Sami Ullah, Rahman Uddin, Qijing Liu. "The carbon sinks and mitigation potential of Deodar (*Cedrus deodara*) forest ecosystem at different altitude in Kumrat Valley, Pakistan". *Open Journal of Forestry*. Vol.8 N0.4, October 2018.

- 2017 MANNAN, A., FENG, Z., AHMAD, A., BECKLINE, M., SAEED, S., LIU, J., **SHAH, S.**, AMIR, M., AMMARA, U. AND ULLAH, T., 2017. CO₂ EMISSION TRENDS AND RISK ZONE MAPPING OF FOREST FIRES IN SUBTROPICAL AND MOIST TEMPERATE FORESTS OF PAKISTAN. *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*, 17(2), PP.2983-3002. (X)
- 2016 **Shah, Sher**, Ahmad Hussain, Muhammad Saeed, Shah Masaud Khan, Qi-Jing Liu, Khurshid Ali Khan, Muzafar Shah, and Sarir Ahmad. "Comparative effects of dominant forest tree species on soil characteristics and nesting behavior of wasp (Hymenoptera: Vespidae) of Buner, Pakistan." *JEZS* (2016).
- 2013 **Sher Shah**, Khan Sher, Ahmad Hussain, Muzafar Shah, "Socioeconomic & Biological conditions of Saif ul Malook National Park Pakistan", *Journal of Biodiversity & Environmental Sciences (JBES)*", ISSN: 2220-6663, Vol.3, No.3, P.21-29, 2013.

SEMINARS AND WORKSHOPS

- Tree-Ring Talks. Webinar 20 January 2021, 12:00 MST (Tucson) [8:00pm CET] [12:00am PKT]
https://arizona.zoom.us/rec/share/Ir1WU0kIb1sySn-ec9VAR7K24NYF8-1AoHWyU-FITdi-k_BQ2CGFpw4OLa3aIjh.s0TdGqRI7ujHta32
- **Agroforestry Design Tool™ Webinar** Jan. 13th, 2021. Zoom Meeting, 08:00 AM Hawaii, 11pm Pakistan Standard Time.
<https://www.youtube.com/watch?v=dSgGOZRMthE&feature=youtu.be>
- **WEBINAR "Dendrochronology [Tree Rings-The Story Teller]**, November 12, 2020. Organized by Department of Forestry & Wildlife Management, The University of Haripur.
- **Project Formulation Workshop**, September 10-11, 2020 at University of Haripur. Organised by Pakistan Science Foundation, Islamabad.
- Forest Ecosystems, **Spring Workshop 2019**. Organized by Beijing Forestry University. June 10-15, 2019, Beijing, China.
- International Academic Symposium of "**Inheritance Innovation and Entrepreneurship on Grassland Culture**". College of Grassland Administration, Beijing Forestry University. May 1st, 2019.
- International Workshop on "**Dynamics of water-limited forests in a drying climate and biophysical feedbacks**". Peking University, Beijing, China. April 16-17, 2019.
- Seminar on "**Alpine treelines under drying environment**" Institute of Tibetan Plateau Research, CAS, Beijing, China. April 15, 2019.
- International Workshop for "**Certified Forest Products and Sustainable Forestry**" Co-sponsored by IUFRO Division 5.12, Chinese Academy of Forestry, and USDA Forest Service. 30 Oct – 1 Nov 2018. Beijing, China.
- **4th International Congress on Planted Forests** – A Solution for Green Development 23-27 October 2018 Beijing – China.
- **Global Bamboo and Rattan Congress (BARC)**. Organizer "International Center for Bamboo and Rattan (ICBR), NFGA. China National Convention Center, Beijing, China, 25-27 June 2018.
- Technical Workshop "**New Advances in Nondestructive Evaluation of Wood**" & **Opening Ceremony of Joint International Research Institute of Wood Nondestructive Testing and Evaluation**. May 7-9, 2018. Organizer, Beijing Forestry University, Beijing, China.
- **5th Meeting of Asia Pacific Forestry Education Coordination Mechanism Globalization of Higher Forest Education in a Digital Era**, Organizer, Beijing Forestry University, Beijing, China, 28th March 2018.
- **Inaugural Global Forest Biodiversity Initiative Conference & GFBI-FECS Joint Symposium 2017 Forest Resource Big Data Era**, 6-9 September 2017 Beijing, China.
- International Workshop on **Action for Adaptation, Bringing Climate Change Sciences to the Policy Makers**. 23-25 July. 2015.
- Training Course On" **Carbon Stock Assessment & REDD+**" Pakistan Forest Institute Peshawar, Peshawar (Pakistan).
- Training Course On "**Water Management for Agriculture in Pakistan National Commission for Rural Development (NCRD)**", 3-7 March 2014, Islamabad (Pakistan).
- Workshop on "**Introduction to Multilateral Environmental Agreements (MEAs) and GIS & remote sensing**" organized by Pakistan Wetlands Program at Hill view Hotel Islamabad from 19 June to 21 June 2012.

FIELD-BASED RESEARCH ACTIVITIES

- **29th European Dendroecological Fieldweek 2018**, Lonjsko Polje, Croatia. September 9-16, 2018.
- Field trip “**Changbai Mountains**” Baihe, Jilin Province, China. July 03-11, 2018.
- Ecological activity “**Lucid Waters and Lush Mountains at Saihanba**”, Saihanba Forest Farm, Hebei, China. June 11th -13th, 2018.
- Field trip “**Daxing anling Mountains**” Mangui, Inner Mongolia, China. June 28-July 07, 2017.

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

2018 – Present Association of Tree Rings (ATR)

2018 – Present. Tree Ring Society (TRS)

COUNTRIES VISITED

- a) **China (2015-2019)** Doctoral Studies, Beijing, China.
- b) **Croatia (2018)** 28th European Dendroecological Fieldweek
- c) **Russia (2018)** Holidays
- d) **Malaysia (2013, 2016 & 2019)** Holidays

REFERENCES

[1]. Prof, Qijing Liu

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Beijing Forestry University,
No 35, Qinghua East Road, Haidian,
100083, Beijing, China.
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Cell: +86-13911806586
Email: liuqijing@bjfu.edu.cn

[2]. Prof. Dr. Syed Moazzam Nizami

Chairman,
Department of Forestry and Wildlife Management,
The University of Haripur, KP
Cell: 0995-614164
Email: moazzam.nizami@uoh.edu.pk
