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RESEARCH INTEREST

My research interests include spatial and temporal modelling of land use changes and forest cover changes, linking forest cover changes with associated drivers, Forest policy and management assessment using GIS Mapping. Currently, working on a project “measuring the impacts of climatic, edaphic, topographic and anthropogenic factors on the diversity, structure and productivity of sub-tropical to temperate forests of KP, Pakistan”.

EDUCATION:

- **Ph.D.** in Forest Biology and Management, **University of Alberta, Canada** 2019
- **M.Sc. (Hons)** in Agricultural Economics from **K.P Agriculture University Peshawar** 2007
- **B.Sc. (Hons)** in Agricultural Economics from **K.P Agriculture University Peshawar** 2005

WORK EXPERIENCE:

- Director QEC at **SBBU** (Sep, 2020- present, Additional responsibility)
- Assistant Professor at **SBBU** (April, 2019- present)
- Research Associate at **University of Alberta** (April 2013 – 2019)
- Assistant Professor at **SBBU** (Feb 2011 - April 2013, 2019- present)
- Lecturer at **SBBU** (August 2006 – Feb 2011)

EXPERTISE IN SOFTWARES

- ArcMap, R/R-Studio, STATA, SPSS

LANGUAGES

- English — Fluent (both writing/speaking)
- Urdu — Fluent (both writing/speaking)
- Pushto — Native (both writing/speaking)
- Arabic — Reading, and Writing

RESEARCH PUBLICATIONS:

- Forest conversion by the indigenous Kalasha of Pakistan: A household level analysis of socioeconomic drivers. *Global Environmental Change*, (59) 2019.
<https://doi.org/10.1016/j.gloenvcha.2019.102004>
- Spatial and temporal trends of forest cover as a response to policy interventions in the district Chitral, Pakistan. *Applied Geography*, (102) 2019

<https://doi.org/10.1016/j.apgeog.2018.12.002>

- Identifying local actors of deforestation and forest degradation in the Kalasha valleys of Pakistan. *Forest Policy and Economics*, (104) 2019
<https://doi.org/10.1016/j.forpol.2019.04.005>
- Role of local communities in forest landscape restoration: Key lessons from the Billion Trees Afforestation Project, Pakistan. *Science of the Total Environment*, (772) 2021
<https://doi.org/10.1016/j.scitotenv.2021.145613>
- Transhumant pastoralist knowledge of infectious diseases and adoption of alternative land use strategies in the Hindu-Kush Himalayan (HKH) region of Pakistan. *Land Use Policy*, (109) 2021
<https://doi.org/10.1016/j.landusepol.2021.105729>
- Why Do Households Depend on the Forest for Income? Analysis of Factors Influencing Households' Decision-Making Behaviors. *Sustainability*, (16), 2021
<https://doi.org/10.3390/su13169419>
- Quantifying the Health and Wealth Benefits of Reducing Point Source Pollution: The Case of the Sugar Industry in Pakistan. *Sustainability*, (23), 2021
<https://doi.org/10.3390/su132313252>
- Socio-economic analysis of farmers facing asymmetric information in inputs markets; evidence from rain-fed zone of Pakistan. *Technology in Society*, (63) 2020
<https://doi.org/10.1016/j.techsoc.2020.101405>
- Factors determining farmers' access to and sources of credit: Evidence from the rainfed zone of Pakistan *Journal of Agriculture*. (12) 2020
<https://doi.org/10.3390/agriculture10120586>
- Landscape co-management and livelihood sustainability: Lesson learned from the billion trees afforestation project, Pakistan. *Land Use Policy*, 115, 2022
<https://doi.org/10.1016/j.landusepol.2022.106034>
- Carbon Emissions with Forest Cover Change and Wood Harvest in the Dry Temperate Region of Pakistan Between 1908 and 2015. *Front. Environ. Sci*, 10, 2022.
<https://doi.org/10.3389/fenvs.2022.876225>
- Constraints to agroforestry diffusion under the Billion Trees Afforestation Project (BTAP), Pakistan: Policy recommendations for 10-BTAP. *Environmental Science & Pollution Research*.
<https://doi.org/10.1007/s11356-022-20661-9>

AWARD AND SCHOLARSHIPS:

- Scholarship of six million rupees (about CAD 70,000) by Shaheed BB University Sheringal (SBBU) under Faculty Development programme (PhD programme).
- Scholarship of CAD 10,000 by the University of Alberta under Doctoral Entrance Scholarship in 2013.

COURSES TAUGHT AT PhD:

- Experimental Design and Data Analysis in Environmental Science
- Graduate Research Skill

- Quantitative Methods in Social Research
- Geographical Information System Application in Renewable Resources
- Econometric Applications in forest

TECHNICAL SKILLS:

- GIS Mapping using ArcGIS
- Statistical Computing Program including STATA, R, SPSS

SEMINAR AND CONFERENCE TALK:

- Zeb, A (2020). What Socio-Economic Attributes Make Household Dependent on Forest Income: A Household Level Analysis with Policy Implications? **ICSAEF 2020: International Conference on Sustainable Agriculture, Environment and Forestry"** 2020, London, United Kingdom
- Zeb A. Glen A (2018). Modelling the Impacts of Geophysical Parameters on Deforestation and Forest Degradation in Pre and Post Ban Logging Periods in Hindu Kush Himalayas. ICSAEF 2018: 20th International Conference on Sustainable Agriculture, Environment and Forestry held in London, United Kingdom during June, 28-29, 2018.

REFERENCES:

- **Dr. Glen w. Armstrong**
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- **Prof Dr. Rahmat Ali Khan**
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