

## CURRICULUM VITAE

**Shankar Prasad Khanal, Ph.D.**  
**Professor & Former Head**  
Central Department of Statistics  
Tribhuvan University (T.U.)  
Kathmandu, Nepal  
**E-mail** : drshankarcds@gmail.com  
Cell: +977-9849413167



### PERSONAL DETAILS:

Name : **Shankar Prasad Khanal**  
Nationality : Nepali  
Date of Birth : 31<sup>st</sup> August 1968  
Marital Status : Married, 1 daughter  
Permanent Address : Siddhicharan Municipality - 3, Okhaldhunga  
Correspondence Address : P. O. Box 11106, Kathmandu, Nepal  
Residential Address : Jamuna Marga - 45/ 17, Kalopool 5, Kathmandu  
Telephone : +977 14439722(Res), +977 1 4331710(Off)  
+9779849413167 (Cell)  
E-mail : drshankarcds@gmail.com

### EDUCATION:

2010 **Ph.D. in Biostatistics** from Department of Biostatistics, **All India Institute of Medical Sciences (AIIMS) New Delhi -110029, India**  
**Ph.D. Thesis Title:** "Comparison of Cox Proportional Hazards, Parametric Proportional Hazards and Accelerated Failure Time Models in the Survival of Acute Liver Failure".  
**Advisors:** Prof. Dr. V. Sreenivas, Prof. Dr. S.K. Acharya & Prof. Dr. S.N. Dwivedi

1995 **M.Sc.** (Statistics), Tribhuvan University (TU), Nepal

1992 **B.Sc.** (Statistics, Mathematics & Physics), TU, Nepal

### RESEARCH INTEREST:

Survival Analysis, Statistical Computing, Data Analysis, Biostatistics, Epidemiology and Public Health

### COMPUTER SKILLS:

Sound knowledge in Statistical Software - STATA and SPSS

**PROFESSIONAL EXPERIENCE:**

Aug. 2015 - Jan 2020:

**Head of Department**, Central Department of Statistics, TU, Nepal

March 2013 - **Professor**, Central Department of Statistics, TU, Nepal

2009 – March 2013:

**Associate Professor**, Central Department of Statistics, TU, Nepal

1997 – 2009: **Lecturer**, Central Department of Statistics, TU, Nepal

1996 – 1997: **Assistant Lecturer**, Shanker Dev Campus, Kathmandu, Nepal

**CONSULTANCY SERVICES:**

May 2018 : **Team Leader**, A Study on Service Seekers' Satisfaction on the Programs conducted by Different Offices in Some selected Districts of Nepal under Ministry of Women, Children and Elderly People, Govt. of Nepal for Women, Children, People with disability and Elderly People.

May-Sept 2015:

**Statistical Analyst and Research Methods Advisor**, National Initiative to Improve Teaching in English (NIITE) Project funded by British Council, Nepal

June 2013 –Dec. 2013:

**Team Member**, Impact Evaluation of Puspa Lal Mid Hill Highway (Eastern Part) Project funded by SMES2 (JICA) and National planning Commission (NPC), Government of Nepal.

2013 – Jan 2014:

**Data Analyst**, Teaching for English plus ETTE + Training Project in Chitwan and Lamjung Districts funded by British Council, Nepal.

2011 Sept- May2013:

**Team Leader**, Identification of Risk Factors of Visual Impairment and Blindness: A Case Study (Statistical Approach) under the Faculty Research Grants funded by University Grants Commission (UGC) Nepal.

2011-2012:

**Team Member**, Impact Evaluation of Sunsari Morang Irrigation Project, funded by SMES2(JICA) and National planning Commission(NPC), Government of Nepal.

2010 Nov - Feb 2011:

**Team Leader**, Action for Social Inclusion of Children affected by Armed Conflict in Nepal (ASIC): Baseline Survey Report funded by European Union (EU) and co-funded by ADRA international for ASTHA Nepal.

2010 -

**Consultant Biostatistician**, Tilganga Institute of Ophthalmology (TIO), Kathmandu, Nepal.

2006 – 2010: **Research Associate**, Indian Council of Medical Research (ICMR) Head Quarter, Govt. of India, New Delhi, on the research project “A Multicentric Randomized Controlled Clinical Trial of Adefovir, Adefovir + Lamivudine and combination of Adefovir and Glycyrrhizin in HBV related Decompensated Cirrhosis” project of ICMR

#### **INVOLVEMENTS IN SCIENTIFIC JOURNALS:**

##### **Editor-in-Chief:**

2016 – Jan 2020: Nepalese Journal of Statistics (NJS), CDS-TU

2015 – 2019: International Journal of Operational Research Nepal (IJORN)

##### **Editorial Board Member:**

Jan 2020: Nepalese Journal of Statistics (NJS), CDS-TU

##### **Reviewer:**

- Indian Journal of Medical Research (IJMR), Indian Council of Medical Research Head Quarter, New Delhi, India.
- Health Renaissance, A peer reviewed biomedical journal of the B P Koirala Institute of Health Sciences, Nepal.
- Journal of Science and Technology, Institute of Science and Technology, Tribhuvan University, Nepal.

#### **PARTICIPATIONS:**

##### **Participated as a Resource Person/Trainer:**

5<sup>th</sup> November 2019: Training Workshop on **Research Methodology: Biostatistics**, jointly organized by Tilganga Institute of Ophthalmology (TIO) and WHO, Kathmandu, Nepal

May 22 – 01 June 2017: Training Workshop on **Advanced Biostatistics in Health Research**, organized by Nepal Health Research Council (NHRC) and supported by UNICEF Nepal.

27-28 July 2014: Workshop on **Research Methodology**, organized by Central Department of Microbiology, TU Nepal

May 21 - 25, 2012: Workshop on **Biostatistics Training for Clinical Faculties** organized by School of Public Health, B.P. Koirala Institute of Health Sciences (BPKIHS), Dharan, Nepal.

- March 21 - 25, 2012: Training on **Statistics and Research Methodology** for legal and administrative officers of Supreme Court organized by Nepal Judiciary Academy, Pulchowk, Kathmandu.
- May 08 - 09, 2008: Workshop on **Advanced Data Analysis** organized by Clinical Epidemiology Unit (CEU), All India Institute of Medical Sciences (AIIMS), New Delhi India.
- February 15 – 18, 2007: Workshop on **Fundamentals of Clinical Research Methodology** organized by CEU, AIIMS, New Delhi, India.
- Participated as a trainee:**
- 7<sup>th</sup> November 2019: Workshop on **Ethics in Health Research**, jointly organized by Tilganga Institute of Ophthalmology (TIO) and WHO, Kathmandu, Nepal

**PUBLICATIONS (INTERNATIONAL JOURNALS):**

1. Thapa R, Twyana SN, Paudyal G, **Khanal Shankar**, van Nispen R, Tan S, Thapa SS, van Rens G. (2018). Prevalence and risk factors of diabetic retinopathy among an elderly population with diabetes in Nepal: the Bhaktapur Retina Study. *Clin Ophthalmol.* 23; 12:561-568. DOI: 10.2147/OPTH.S157560.
2. Thapa R, Bajimaya S, Paudyal G, **Khanal Shankar**, Tan S, Thapa SS, van Rens GHMB. (2018). Prevalence and causes of low vision and blindness in an elderly population in Nepal: the Bhaktapur retina study. *BMC Ophthalmol.* 13;18(1):42. DOI: 10.1186/s12886-018-0710-9.
3. Chapagain Sharada & Khanal Shankar (2017). Statistical Analysis on Time Spent on Internet use by College Students: A Case Study of Butwal Sub-Metropolitan City, Nepal. *Research and Reviews: Journal of Statistics (RRJoST).* 6(3). DOI : <https://doi.org/10.37591/rrjost.v6i3.69>
4. Thapa R, Bajimaya S, Paudyal G, **Khanal Shankar**, Tan S, Thapa SS, van Rens G. (2017). Prevalence, pattern and risk factors of retinal vein occlusion in an elderly population in Nepal: the Bhaktapur retina study. *BMC Ophthalmol*, 17(1):162. DOI: 10.1186/s12886-017-0552-x.
5. Thapa R, Bajimaya S, Paudyal G, **Khanal Shankar**, Tan S, Thapa SS, van Rens G.(2017). Prevalence of and risk factors for age-related macular degeneration in Nepal: the Bhaktapur Retina Study. *Clin Ophthalmol*, 11:963-972. DOI: 10.2147/OPTH.S132338.
6. Dhakal Basanta, Sthapit Azaya, Khanal Shankar (2017). Factor analysis of local residents' perceptions towards social impact of tourism in Nepal. *International Journal of Statistics and Applied Mathematics*, 2(6): 01-08.

7. Thapa R, Bajimaya S, Bouman R, Paudyal G, **Khanal Shankar**, Tan S, Thapa SS, van Rens G. (2016). Intra - and inter-rater agreement between ophthalmologist and mid-level ophthalmic personnel to diagnose retinal diseases based on fundus photographs at a primary eye center in Nepal: the Bhaktapur Retina Study, *BMC Ophthalmol.* 18; 16:112. DOI: 10.1186/s12886-016-0295-0.
8. Dhakal Basanta, Sthapit Azaya Bikram, **Khanal Shankar** (2016). Investigating Nepal's Gross Domestic Product from Tourism: Vector Error Correction Model Approach, *American Journal of Theoretical and Applied Statistics*, 2016; 5(5): 311-316, DOI: 10.11648/j.ajtas.20160505.20
9. Dhakal Basanta, Sthapit Azaya Bikram, **Khanal Shankar** (2016). Relationship between International Tourist and Their Length of Stay towards Share of Gross Domestic Product of Nepalese Tourism: Vector Error Correction Model Approach, *International Journal of Research in Engineering and Applied Sciences (IJREAS)*, 6(8): 35 – 44, Thomson Reuters ID: L-5236-2015
10. Thapa R, Bajimaya S, Paudyal G, **Khanal Shankar**, Tan S, Thapa SS, van Rens G. (2015). Population awareness of diabetic eye disease and age-related macular degeneration in Nepal: the Bhaktapur Retina Study, *BMC Ophthalmol.* 15:188. DOI: 10.1186/s12886-015-0175-z.
11. **Khanal Shankar**, Sreenivas V., Acharya SK (2014). Accelerated Failure Time Models: An Application in the Survival of Acute Liver Failure Patients in India. *International Journal of Science and Research (IJSR)*, 3(6), paper ID: 0201445; 161-166.
12. Thapa SS, Thapa R, Paudyal I, **Khanal Shankar**, Aujla J, Paudyal G, Rens Gv(2013). Prevalence and pattern of vitreo-retinal diseases in Nepal: the Bhaktapur glaucoma study. *BMC Ophthalmol.* 13:9. DOI: 10.1186/1471-2415-13-9.
13. Kumar R, Shalimar, Sharma H, Prakash S, Panda SK, **Khanal Shankar**, Acharya SK (2012). Persistent hyperammonemia is associated with complications and poor outcomes in patients with acute liver failure. *The Clinical Gastroenterology and Hepatology: The official clinical practice journal of the American Gastroenterological Association*, 10(8):925-31. PMID: 22521861.
14. Kumar R, Prakash S, Chhabra S, Singla V, Madan K, Gupta SD, Panda SK, **Khanal Shankar**, Acharya SK (2012). Association of pro-inflammatory cytokines, adipokines & oxidative stress with insulin resistance & non-alcoholic fatty liver disease. *Indian J Med Res*, 136(2):229-36. PMID: 22960889.
15. Kumar R, Shalimar, Sharma H, Goyal R, Kumar A, **Khanal Shankar**, Prakash S, Gupta SD, Panda SK, Acharya SK (2012). Prospective Derivation and Validation of Early Dynamic Model for Predicting Outcome in Patients with Acute Liver Failure *GUT (An International Journal of Gastroenterology and Hepatology)*, 61(7):1068-75. PMID: 22337947.

16. Thapa SS, Paudyal Indira, **Khanal Shankar**, Twyana SN, Poudyal G, Gurung R, Ruit S, Rens Ger (2012). A population based survey of the prevalence and types of Glaucoma in Nepal - The Bhaktapur Glaucoma Study. *Ophthalmology, American Academy of Ophthalmology*, 119(4):759 - 764. PMID: 22305097.
17. Thapa SS, Berg RV, **Khanal Shankar**, Paudyal I, Pandey P, Maharjan N, Twyana SN, Paudyal G, Gurung R, Ruit S, Rens GH(2011). Prevalence of visual impairment, cataract surgery and awareness of cataract and glaucoma in Bhaktapur district of Nepal: The Bhaktapur Glaucoma Study. *BMC Othalmol*, 21; 11:2. Jan 21;11:2. PMID: 21255382.
18. Thapa Suman S, Paudyal Indira, **Khanal Shankar**, Paudel Nabin, Ger H.M.B. vans Rens (2011). Comparison of axial lengths in occludable angle and angle-closure glaucoma--the Bhaktapur Glaucoma Study. *Optometry and Vision Science: Official Publication of the American Academy of Optometry*, 88(1):150-4. PMID: 21150676.
19. Thapa Suman S, Paudyal Indira, **Khanal Shankar**, Paudel Nabin, Steven L Mansberger, G Van Rens (2011). Central Corneal Thickness and Intraocular Pressure in a Nepalese Population: The Bhaktapur Glaucoma Study. *The Journal of Glaucoma*, 21(7):481-5. PMID: 21499121.
20. Thapa SS, **Khanal Shankar**, Paudyal Indira, Shankha N Twyana, Sanduk Ruit, Ger H. M. B. van Rens (2011). Outcomes of cataract surgery: a population-based developing world study in the Bhaktapur district, Nepal. *Clinical & Experimental Ophthalmology*, 39(9):851-7. PMID: 21631676.
21. Kumar Ramesh, Shalimar, Bhatia Vikram, **Khanal Shankar**, Sreenivas V, Datta Gupta S, Panda SK, Acharya SK (2010): Antituberculosis therapy - induced acute liver failure: Magnitude, profile, prognosis, and predictors of outcome. *Journal of Hepatology*, 51(5):1665-74. PMID: 20196116.
22. Acharya SK, Bhatia V, Sreenivas V, **Khanal Shankar**, Panda SK (2009): Efficacy of L-Ornithine L-Aspartate in Acute Liver Failure: A Double – Blind, Randomized, Placebo-Controlled Study. *Journal of Gastroenterology*, 136(7):2159-68. PMID: 19505424.

#### **PUBLICATIONS (NATIONAL JOURNALS):**

1. **Khanal Shankar**, Sreenivas V., Acharya SK (2019). Comparison of Cox Proportional Hazards Model and lognormal accelerated failure time model: Application in time to event analysis of acute liver failure patients in India. *Nep. J. Stat.*, 3, 21-40. DOI : <https://doi.org/10.3126/njs.v3i0.25576>
2. **Khanal Shankar**, Sreenivas V., Acharya SK (2018). Cox Proportional Hazards Model for Identification of the Prognostic Factors in the Survival of Acute Liver Failure Patients in India. *Nep. J.Stat.*, 2, 53-74. DOI : <http://dx.doi.org/10.3126/njs.v2i0.21155>

3. Yadav SK, Mishra Sheela, Mishra SS, **Khanal Shankar** (2017). New Variance Estimator using Tri-mean and Inter Quartile Range of Auxiliary Variables. *Nep. J. Stat.*,1, 83-89.
4. **Khanal Shankar**, Acharya K.P., Uprety Pravat, Shah S.K. (2014). Statistical Modeling on Blindness and Visual Impairment Data. *Journal of Institute of Science & Technology (JIST)*, IOST, TU, 19(1), 1-6.
5. Bhandari Sanjeeb, Paudyal I, **Khanal Shankar**, Thapa SS (2014). Effect of Phacoemulsification Surgery on various Parameters in Patients with Glaucoma. *Nepal J Ophthalmol*, 6(11):46-5.
6. **Khanal Shankar** (2012). Analysis of Child Underweight Status in Nepal. *Management Dynamics: A journal of Management and Economics, Nepal*. Vol. 16, No. 2(91-96).
7. **Khanal Shankar** (2012). Statistical Modeling on Financial Performance Data: (A Case Study of Employees Provident Fund of Nepal). *Management Dynamics: A journal of Management and Economics, Nepal*. Vol. 16, No. 1(40-43).
8. **Khanal Shankar (2011)**. Achievements, Challenges and Opportunities of Statistics for Twenty First Century. *Management Dynamics: A journal of Management and Economics, Nepal*. Vol. 15, No. (1), 15-21.
9. **Khanal Shankar (2011)**. Official Statistics for Decision making and Evaluation. 'Kosh', Karmachari Sanchya Kosh, Nepal. Volume: 75, (113 -116).
10. **Khanal Shankar** (2010). Application of Statistics in Business and Industry. *Management Dynamics: A journal of Management and Economics, Nepal*, Vol. 14, No(1), 13 – 16.
11. **Khanal Shankar** (2010). Temporal and Cross-sectional Analysis on School Leaving Certificate (SLC) Results in Gender and Regional Prospective. *NEPSA Digest; Official Journal of Nepal Statistical Association*, 57-77.
12. Shrestha Ganga, **Khanal Shankar** (2007): Impact of Some Demographic Variables on Infant Mortality Rate in Nepal. *Nepal Journal of Science and Technology*, 8: 143 - 146.
13. **Khanal Shankar** (2004) Application of Venn Diagrams in Regression. *Journal of Institute of Science and Technology T.U., Nepal* vol. 13.

#### **PUBLICATION IN MONOGRAPH:**

1. **Khanal Shankar** (2015). Persons with Disability and their Characteristics. *Population Monograph of Nepal 2015*, Centre Bureau of Statistics, National Planning Commission, Government of Nepal.

**PUBLISHED BOOKS:**

- Sthapit Azaya Bikram, Yadav Rashinder, **Khanal Shankar**, Baidar Praladha (2019). *Probability & Statistics*. Asmita Books Publishers and Distributors, Kathmandu, Nepal. ISBN 978-9937- 687- 6- 0
- Sthapit Azaya Bikram, Yadav Rashinder, **Khanal Shankar**, Prakash Man Dangol (2014). *Applied Statistics*. Asmita Books Publishers and Distributors, Kathmandu, Nepal.
- Sthapit Azaya Bikram, Yadav Rashinder, **Khanal Shankar** (2013). *Fundamentals of Statistics*. Asmita Books Publishers and Distributors, Kathmandu, Nepal, ISBN 978-9937-534-93-2.
- Sthapit, Azaya Bikram, **Khanal Shankar**, Govinda Tamang, pravat Uprety (2011). *Data Analysis & Modeling*. Asmita Books Publishers and Distributors, Kathmandu, Nepal, ISBN 978-9937-534-53-6.
- Sthapit, Azaya Bikram, Yadav, Rasinder Prasad, **Khanal Shankar** (2010). *Business Statistics for Management*. Asmita Books Publishers and Distributors, Kathmandu, Nepal, ISBN 978-9937-534-41-3.

**PAPER PRESENTATION:**

1. **Khanal Shankar** (2017). On the appropriate use of Mann-Whitney test: Revisited. 2<sup>nd</sup> National Conference on Statistics and its Applications, organized by CDS-TU, Kathmandu, Nepal.
2. **Khanal Shankar** (2014). Statistical Modeling on Blindness and Visual Impairment Data. International Conference on Operations Research at Bharatpur, Chitwan, Nepal organized by Operational Research Society of Nepal.
3. **Khanal Shankar** (2010). Survival analysis focusing on Acute Liver Failure. Talk program organized by Nepal Statistical Association (NEPSA), Kathmandu
4. Sreenivas V., **Khanal Shankar** & Acharya SK(2008). Prognostic Factors for Acute Liver Failure (ALF): Use of Cox Proportional hazards Model. National Conference on Science and Technology Kathmandu, Nepal
5. **Khanal Shankar** (2006). Temporal and Cross-sectional Analysis on School leaving Certificate (SLC) Results of Nepal. National Seminar on Statistics organized by Central Department of Statistics (CDS), T.U., Kathmandu, Nepal

**OTHER RESEARCH ACTIVITIES:**

**Ph.D. Supervision/Co-supervision:**

- Number of Ph.D. completed: 1
- Number of Ph.D. ongoing: 2



**External Examiner of Ph.D. Thesis (Statistics/Biostatistics):**

- All India Institute of Medical Sciences (AIIMS), New Delhi, India
- Kathmandu University (KU), Dhulikhel, Nepal

**PROFESSIONAL ORGANIZATION MEMBERSHIP:**

**Life Member:**

- 2019 - Indian Association for the Study of Population (IASP), India  
2019 - Nepal Council of World Affairs (NCWA)  
2017- Indian Society for Medical Statistics (ISMS). India  
2010 - Nepal Statistical Association (NEPSA), Nepal

**General Member:**

- 2016 - 2019 International Biometric Society (IBS), USA

**FELLOWSHIPS, AWARDS, MEDALS & GRANTS:**

- 2012: **"Nepal Bidhya Bhusan KA"** awarded by Honorable President of Nepal on National Education Day, Ministry of Education, Government of Nepal
- 2011-2013: **Faculty Research Grant**, University Grants Commission (UGC), Nepal.
- 2006 –2009: **Ph.D. Fellowship**, University Grants Commission, Nepal.
- 2002: **National Education Award and Medal**, Government of Nepal, Ministry of Education

**COMMITTEE SERVICES:**

- 2020 Jan - **Member**, Statistics subject Committee, IOST, TU
- 2020 Jan - **Member**, Department Research Committee, CDS, TU
- 2017 - **Member**, Institute Review Committee (IRC), TIO, Kathmandu, Nepal
- 2016 Aug. - **Member**, Examination Board, IOST, TU, Nepal
- 2016 - 2018 **Member**, Academic Council, Pokhara University, Nepal
- 2015Aug. - **Member**, Research Committee, IOST, TU, Nepal
- 2015 Aug.–2020 Jan: **Chairman**, Department Research Committee (DRC), Statistics Subject Committee, Central Department of Statistics, TU, Nepal