

# CURRICULUM VITAE



**NAME:** Srijan Lal Shrestha

**NATIONALITY:** Nepali

**DATE OF BIRTH:** September 19, 1963 (B. S. 2020/06/03)

**PERMANENT ADDRESS:** Sanepa, Ward No. 2, Lalitpur, Nepal

**MAILING ADDRESS:** Central Department of Statistics, Tribhuvan University, Kirtipur, Kathmandu, Nepal

## PRESENT POSITION

- Head & Professor, Central Department of Statistics (CDS), TU, Kirtipur, Kathmandu, Nepal  
Website: [www.tucds.edu.np](http://www.tucds.edu.np)
- Editor-In-Chief, Nepalese Journal of Statistics, CDS, TU, Kirtipur, Kathmandu, Nepal  
Website: <http://tucds.edu.np/index.php/publication>
- Editor, Journal of Institute of Science and Technology (JIST), IOST, TU, Kirtipur, Kathmandu, Nepal Website: <https://www.tuiost.edu.np/committee/journal>

## ACADEMIC QUALIFICATIONS

- **PhD in Statistics** from Tribhuvan University, Nepal, 2007
- **M. Sc. in Statistics**, 1992, TU, Nepal
- **B. Sc.** (Physics, Statistics, Mathematics)
- **I. Sc.** (Physics, Chemistry, Mathematics, Biology, English)

## EMPLOYMENT RECORD

- **Assistant Lecturer**, Central Department of Statistics, TU from July 17, 1993 till September 9, 1997
- **Assistant Professor (Lecturer)**, Central Department of Statistics, TU from September 10, 1997 till September 17, 2009.
- **Associate Professor (Reader)**, Central Department of Statistics, TU from September 18, 2009 till March 16, 2013
- **Professor**, Central Department of Statistics, TU from March 17, 2013 onwards
- **Head**, Central Department of Statistics, TU from 16 January 2020 onwards

## COMPUTER PROFICIENCY/KNOWLEDGE

- **MS Windows and Office** (MS Word, Excel, PowerPoint, etc.)
- **Statistical Data Analysis Packages** (SPSS for Windows, SPLUS, R, etc.)

## AWARDS / MEDALS:

- Nepal Vidya Bhushan (KA), 2009
- NABIL Science and Technology Award, 2016 awarded by Nepal Academy of Science and Technology

**Research Grant:** Climate Change Research Grant Program (CCRGP) 2014 by NAST.

**PHONE:** 01-5439397, (Home); 01-4331710 (Office); Mobile: 9841927128

**EMAIL:** srijan\_shrestha@yahoo.com; njs.cds.tu@gmail.com (for journal paper enquiry and submission)

## DUTIES AND RESPONSIBILITIES

Executing duties of Head of department, conducting regular classes, supervising research works, assessing departmental research related works, involvement in conducting occasional training programs, seminars, workshops, Working for Nepalese Journal of Statistics, etc.

## PROFESSIONAL RESEARCHER IDENTIFICATIONS

ResearchGate: Srijan Lal Shrestha URL: [https://www.researchgate.net/profile/Srijan\\_Shrestha](https://www.researchgate.net/profile/Srijan_Shrestha)

ORCID ID: 0000-0002-9390-8215

## AREAS OF INTEREST

Environmetrics, environmental health, statistical data modeling, multivariate analysis, etc.

## MEMBERSHIP / POSITION HELD

- Member, Statistical Society of Nepal
- Member, Statistics Subject Committee, TU
- Member, Research Committee, CDS, TU
- Managing Editor, Nepalese Journal of Statistics, CDS, TU
- Editor, Journal of Institute of Science and Technology (IOST), TU
- Member of Scientific Committees of different national/international seminars, (National Summits of Health and Population Scientists in Nepal (2015, 2016, 2017), The Eleventh Triennial Conference of Association of Asia Pacific Operational Societies (APORS 2018)

## TRAINING

- Training on R package, CDS, TU, 2018
- Online Course, Editorial Processes for Journal Editors, International Network for the Availability of Scientific Publications (INASP), Oxford, UK, 26 Feb - 13 March, 2018.
- Workshop on Official Statistics in Nepal, Jointly organized by CDS and CBS, 2011.
- Resource Person, Training Program on “Data Management and Statistical Analysis for Forestry Research” held by Department of Forest Research and Survey, Babarmahal, Kathmandu, Dec 3 – 16, 2009.
- SPSS Training Programs, CDS, TU (Multiple occasions)
- Research Methodology Training supported by UGC, 2008.
- Training /workshop on Research Methodology, IOST, TU, 2004.
- Computer training course on 5 in 1 package, 1993.

## WORK EXPERIENCES

### a. Teaching

#### Current

***Environmetrics & Nonparametric Modeling*** in M. Sc. / M. A. Statistics, CDS, TU, Kirtipur

#### Previous

1. ***Probability Theory, Econometrics, Multivariate Analysis, Sampling Theory and Design of Experiments*** in M.Sc. / M.A. Statistics, CDS, TU, Kirtipur.
2. ***Statistical Package for the Social Sciences (SPSS) for windows*** in computer training programs conducted at:

- Agricultural Development Bank, KTM, 2004.
- CDS, TU in Research Methodology Training supported by UGC, 2008.
- 3. Research Methodology for PhD scholars, 2018 & 2019, IOST, TU.
- 4. Advance Research Methodology for PhD scholars, 2019, CDS, IOST, TU.

#### b. PhD Research Supervision

1. **Co-Supervisor**, PhD research of Mr. Govinda Tamang (PhD awarded), CDS, TU (Supervisor, DB Chhetry and S Shrestha Hada).
2. **Co-Supervisor**, PhD research of Mr. Rajendra Man Shrestha (PhD awarded), CDS, TU. (Supervisor AB Sthapit), 2019

#### Studies/Researches/Consultancy Works

Involved in studies/researches related to science and technology, environmental health, climate change, sampling design, impact assessment, etc. Studies awarded/associated with Nepal Academy of Science Technology (NAST), SOS Country office, Save The Children, Ministry of Women, Children and Senior Citizen, Nepal health Research Council, Nepal Rastra Bank, DANIDA, UNDP, NG Ministries, etc.

### PUBLICATIONS

#### a. National Journals:

1. **Srijan Lal Shrestha** (2018). Negative Binomial Model in Linking Water-borne and Vector-borne Disease Hospitalizations with Climate Sensitive Variables in Nepal, **Nepalese Journal of Statistics**, Vol. 2, pp. 11-26, September 2018, Central Department of Statistics, Tribhuvan University, Kirtipur, Nepal.
2. Rajendra Man Shrestha, Azaya Bikram Sthapit & **Srijan Lal Shrestha** (2018). A Probabilistic Approach for Assessment of Future Drought in Bagmati River Basin, Nepal, **Nepalese Journal of Statistics**, Vol. 2, pp. 75-88, September 2018, Central Department of Statistics, Tribhuvan University, Kirtipur, Nepal.
3. **Srijan Lal Shrestha** (2013). Poisson Model for Linking Children Ever Born with Some Key Predictor Variables in Nepalese Women, **Journal of Institute of Science and Technology**, Vol. 18 (2), pp. 1-7, October 2013, Institute of Science and Technology, Tribhuvan University, Kirtipur, Nepal.
4. **Srijan Lal Shrestha** (2013). Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments, **Nepal Journal of Science and Technology**, Vol. 14 (1), pp. 167-176, 2013, Nepal Academy of Science and Technology, Kathmandu, Nepal. DOI: 10.3126/njst.v14i1.8937
5. Iswori Lal Shrestha & **Srijan Lal Shrestha** (2011). Statistical Models and Water Quality Characterization of Source Waters in Nepal, **Nepal Journal of Science and Technology**, Vol. 12, pp. 260-267, December 2011, Nepal Academy of Science and Technology, Kathmandu, Nepal. DOI: 10.3126/njst.v12i0.6511
6. **Srijan Lal Shrestha** (2009). Categorical Regression Models with Optimal Scaling for Predicting Indoor Air Pollution Concentrations inside Kitchens in Nepalese Households, **Nepal Journal of Science and Technology**, Vol. 10, pp. 205-211, December 2009, Nepal Academy of Science and Technology, Kathmandu, Nepal. DOI: 10.3126/njst.v10i0.2962
7. Ganga Shrestha & **Srijan Lal Shrestha** (2008). Nonparametric Distribution Fitting of Age at First Marriage of Nepalese Women through Scatter Plot Smoother, **Nepal Journal of Science and Technology**, Vol. 9, pp. 179- 186, December 2008, Nepal Academy of Science and Technology, Kathmandu, Nepal. DOI: 10.3126/njst.v9i0.3184
8. **Srijan Lal Shrestha** (2001). Application of Triple Exponential Smoothing Technique in the Analysis of Time Series with a Quadratic Trend, **Nepal Journal of Science and Technology**, Vol. 3, pp. 1-4, August 2001, Nepal Academy of Science and Technology, Kathmandu, Nepal.
9. **Srijan Lal Shrestha** (1997). Air Pollution in Kathmandu Municipality, **Tribhuvan University Journal**, Vol. XX (1), June 1997,

Tribhuvan University, Kirtipur, Nepal.

#### b. International Journals

1. **Srijan Lal Shrestha** (2018). Assessment of Ambient Particulate Air Pollution and its Attribution to Burden of Disease in Kathmandu Valley, Nepal: A Review, *Environmental Analysis and Ecology Studies*, Vol. 4 (4), pp. 1- 3, November 2018, Crimson Publishers, USA. DOI: : 10.31031/EAES.2018.04.000592
2. Rajendra Man Shrestha & **Srijan Lal Shrestha** (2017). Seasonally separated logistic models to assess the impact of climate variables on occurrence of rainfall over the Bagmati river basin of Nepal, *British Journal of Environment and Climate Change*, Vol.7(1),pp.26-42,30March2017,ScienceDomainInternational,UK. DOI: 10.9734/BJECC/2017/30696
3. **Srijan Lal Shrestha**, Iswori Lal Shrestha, Niraj Shrestha & Rajesh Dhoj Joshi (2017). Statistical modeling of health effects on climate-sensitive variables and assessment of environmental burden of diseases attributable to climate change in Nepal, *Environmental Modeling and Assessment*, Vol. 22 (5), pp. 459-472 (October 2017). Online published date: 17 January 2017, Springer International Publishing, Switzerland. DOI: 10.1007/s10666-017-9547-5
4. **Srijan Lal Shrestha**, Iswori Lal Shrestha & Niraj Shrestha (2016). Region-wise Effects of Climate Sensitive Variables on Some Specific Disease Burdens in Nepal, *The Open Atmospheric Science Journal*, Vol. 10, pp. 63- 83, Online published date: 30 November 2016, Bentham Science Publishers, UAE. DOI: 10.2174/1874282301610010063
5. Rajendra Man Shrestha, **Srijan Lal Shrestha** & Azaya B. Sthapit (2015). Logistic Model as a Statistical Downscaling Approach for Forecasting a Wet or Dry Day in the Bagmati River Basin, *The Open Atmospheric Science Journal*, Vol. 9, pp. 9-22, Online published date: 31 July 2015, Bentham Science Publishers, UAE. DOI: 10.2174/1874282301509010009
6. **Srijan Lal Shrestha** & Niraj Shrestha (2014). Dynamics of Population Ageing in Nepal, *Journal of Population Ageing*, Vol. 7 (2), pp. 81-95, May 10 2014. Springer Publication, Netherlands. Online published date: 25 February 2014. DOI: 10.1007/s12062-014-9096-5
7. **Srijan Lal Shrestha** (2012). Particulate Air Pollution and Daily Mortality in Kathmandu Valley, Nepal: Associations and Distributed Lag, *The Open Atmospheric Science Journal*, Special issue on Urban Air Pollution Exposure—Measurement, Modeling and Assessment, Vol. 6, April 20 2012, Bentham Science Publishers, UAE. DOI: 10.2174/1874282301206010062
8. **Srijan Lal Shrestha** & Gauri Shrestha (2010). Statistical Analysis of Factors Associated with Maternal Mortality in Nepal, *International Journal of Statistical Sciences (IJSS)*, Vol.10, pp. 57-70, 10 December 2010, Rajshahi University, Bangladesh.
9. **Srijan Lal Shrestha** (2007). Time series modeling of respiratory hospital admissions and geometrically weighted distributed lag effects from ambient particulate air pollution within Kathmandu Valley, Nepal, *Environmental Modeling and Assessment (ENMO)*, Vol. 12 (3), pp 239 — 251, August 2007, Springer Publication, Netherlands, Online published date: 6 February 2007. DOI: 10.1007/s10666-006-9071-5
10. **Srijan Lal Shrestha** (2006). Statistical modelling of effects on health linked to indoor air pollution based upon kitchen exposure and with reference to a cross-sectional household survey conducted in Nepal, *International Journal of Environment and Pollution (IJEP)*, Vol. 27 (4), pp. 359-372, Inderscience Publishers, Inderscience Interprises Ltd, UK with the cooperation and assistance of United Nations Educational, Scientific and Cultural Organization (UNESCO) (2006). DOI: 10.1504/IJEP.2006.010578
11. Iswori Lal Shrestha & **Srijan Lal Shrestha** (2005). Indoor Air Pollution from Biomass Fuels and Respiratory Health of the Exposed Population in Nepalese Households, *International Journal of Occupational and Environmental Health (IJOEH)*, Vol. 11 (2), APR/JUN 2005, Abel Publication Services, Inc., NC, USA. DOI: 10.1179/oeh.2005.11.2.150

**Google Scholar Citations of research articles: Above 200**

#### c. Seminar Proceeding / Abstract Book

1. **Srijan Lal Shrestha** (2018). *Effects of climate change on diarrheal diseases at national and sub-national levels in Nepal*. **National**

**Conference on Climate Change and Health, 29-30 March 2018, Nepal Health Research Council organized at Himalaya Hotel, Kathmandu.**

2. **Srijan Lal Shrestha (2017).** *Linking water-borne and vector-borne disease morbidities with climate sensitive variables in Nepal.* **2<sup>nd</sup> National Conference on Statistics and its Applications, 3-4 September 2017, Central Department of Statistics, Tribhuvan University, Kirtipur, Nepal.**
3. **Srijan Lal Shrestha (2017).** *Ambient air pollution and its attribution to environmental burden of diseases in Kathmandu valley.* **Plenary session, he 7<sup>th</sup> National Conference on Operations Research, Operational Research Society of Nepal (ORSN), 1 February 2017, Patan College of Professional Studies, Lalitpur.**
4. Rajendra Man Shrestha, **Srijan Lal Shrestha & Azaya B. Sthapit (2017).** *Seasonally separated logistic models to assess the impact of atmospheric variables on occurrence of rainfall in the Bagmati river basin, Nepal.* **Abstracts.** The 7<sup>th</sup> National Conference on Science and Technology, NAST, 2016.
5. **Status of ambient air quality in Kathmandu valley assessed by PM<sub>2.5</sub>, Abstract Book, PL01:03 (Plenary Session),** First National Summit of Health and Population Scientists in Nepal, 11-12 April 2015, Nepal Health Research Council (NHRC), Kathmandu (with P Dhakal, KB Karki, H Joshi, S Puri, SC Barma & A Pokharel).
6. **Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments, Abstracts,** The Sixth National Conference on Science and Technology, NAST, 2012.
7. **Statistical Analysis of Factors Associated with Maternal Mortality in Nepal, Abstracts,** The Fifth National Conference on Science and Technology, NAST, 2008.
8. **Population Aging in Nepal and Some of its Demographic Measures,** Proceeding of The International Seminar on Aging in SAARC Countries, The Department of Statistics, University of Rajshahi, Bangladesh, October, 1996 (with G Shrestha).

#### d. **Books**

1. **Probability and Probability Distributions,** Publisher-S. Shrestha, Bishwo Chapakhana, Kathmandu, July, 2011.
2. **Statistical Methods for Environment, Biological and Health Sciences,** Publisher- Ekta Books distributors Pvt. Ltd., Thapathali, Kathmandu (2010).
3. **Statistical Methods for Linking Health Effects to Air Pollution: Statistical Models and Applications with Estimates,** Publisher; LAP LAMBERT Academic Publishing, Germany, December 21, 2010.

## **PAPER PRESENTATIONS**

### **Seminar/Workshops/Talk Program**

1. **Effects of climate change on diarrheal diseases at national and sub-national level in Nepal,** National Conference on Climate Change and Health, 29-30 March 2018, Nepal Health Research Council & Ministry of Population and Health, supported by WHO, Country Office for Nepal at Himalaya Hotel, Kupondol, Lalitpur.
2. **Linking Water-borne and Vector-borne Disease Morbidities with Climate Sensitive Variables in Nepal** Plenary session, 2<sup>nd</sup> National Conference on Statistics and its Applications, 3-4 September 2017, Central Department of Statistics, Tribhuvan University, Kirtipur, Kathmandu, Nepal.
3. **Ambient air pollution and its attribution to environmental burden of diseases in Kathmandu valley** Plenary session as invited speaker, The 7<sup>th</sup> National Conference on Operations Research, 1-2 February 2017, Operational Research Society of Nepal (ORSN), Patan College of Professional Studies, Lalitpur.
4. **Seasonally separated logistic models to assess the impact of atmospheric variables on occurrence of rainfall in the Bagmati river basin, Nepal,** The 7<sup>th</sup> National Conference on Science and Technology, NAST, March 29-31, 2016, Nepal

Academy of Science and Technology (NAST). (With Presenter RM Shrestha and Co- author AB Sthapit).

5. **Status of ambient air quality in Kathmandu valley assessed by PM<sub>2.5</sub>, PL01: 03 (Plenary Session)** First National Summit of Health and Population Scientists in Nepal, 11-12 April 2015, Nepal Health Research Council (NHRC), Kathmandu (with PDhakal: presenter, KBKarki, HJoshi, SPuri, SCBarma & APokharel).
6. **Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments** The Sixth National Conference on Science and Technology, September 25-27, 2012, Nepal Academy of Science and Technology (NAST), Venue: Everest Hotel, Kathmandu.
7. **Estimating Health Effect Coefficients Attributed to Ambient Particulate Air Pollution**, Talk program, Operation Research Society of Nepal (ORSN), May 4, 2011.
8. **Data Management and Analysis of Survey Data** Workshop on **Official Statistics in Nepal for Post graduate Statistics students, TU**, Central Department of Statistics, TU and Central Bureau of Statistics, Government of Nepal from February 27 to March 18, 2011, Venue: CDS, TU, Kirtipur.
9. **Statistical Analysis of Factors Associated with Maternal Mortality in Nepal** The Fifth National Conference on Science and Technology, November 10-12, 2008, Nepal Academy of Science and Technology (NAST), Khumaltar, Kathmandu.
10. **Data Processing and Management** Research Methodology Training, Central Department of Statistics, TU with the support of University Grants Commission, June 15 - 23, 2008.
11. **Concepts on Probability, Probability Distribution and Analysis of Variance**, Workshop on Research Methodology, Central Department of Botany, TU, Kirtipur, Nepal, July, 2007.
12. **The Assessment of Environmental Burden of Disease (EBD) at Local Levels due to Ambient Air Pollution within Kathmandu Valley** Dissemination workshop on Development of Procedures and Assessment of EBD of Local levels due to Major Environmental Risk factors (unsafe drinking water and sanitation; and ambient air pollution), January 9, 2006, NHRC.
13. **Health Effects and Modeling of Indoor Air Pollution from Biomass Fuels** National Conference on Some Application of Statistics in Development Initiatives with Special Reference to Nepal, May 28–30, 2006. Central Department of Statistics, Kirtipur and Prithvi Narayan Campus, Pokhara. Venue: Staff College, Pulchowk, Lalitpur, Nepal.
14. **Population Aging in Nepal and Some of its Demographic Measures** International Seminar on Population Aging in SAARC Countries, University of Rajshahi, Bangladesh (with G Shrestha), 1996.

#### c. **OTHERS**

Development/updating academic courses at bachelor/master level statistics of TU, member of scientific committee in seminars, review of journal articles (national and International), examination of thesis/dissertation (PhD and Master Level), etc.

**Srijan Lal Shrestha**