

# 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:** Professor, Central Department of Statistics, Tribhuvan University, Kirtipur, Nepal

## ACADEMIC QUALIFICATIONS

- **PhD in Statistics** from Tribhuvan University, Nepal, 2007
- **M.Sc. in Statistics**, 1992
- **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

## COMPUTER PROFICIENCY/KNOWLEDGE

- **5 in 1 Package** (MS DOS, WP, LOTUS 123, dBase, utilities)
- **MS Windows and Office** (MS Word, Excel, PowerPoint, etc.)
- **Statistical Data Analysis Packages** (SPSS for Windows, SPLUS, etc.)

## AWARDS / MEDALS:

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

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## Member

Statistics subject committee  
Research committee, CDS, TU

## DUTIES AND RESPONSIBILITIES

Conducting regular classes, supervising research works, assessing departmental research related works, involvement in conducting occasional training programs, workshops, etc.

## AREAS OF INTEREST

Environmetrics, Environmental Health, Statistical Data Modeling, Multivariate Analysis, Probability, etc

## PUBLICATIONS

### a. National Journals:

1. Poisson Model for Linking Children Ever Born with Some Key Predictor Variables in Nepalese Women, ***Journal of Institute of Science and Technology***, Volume 18 (2), October 2013, Institute of Science and Technology, Tribhuvan University, Kirtipur, Nepal.
2. Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments, ***Nepal Journal of Science and Technology***, Volume 14 (No. 1), 2013, pp. 167-176. DOI: 10.3126/njst.v14i1.8937
3. Statistical Models and Water Quality Characterization of Source Waters in Nepal, ***Nepal Journal of Science and Technology***, Volume 12, December, 2011, pp. 260-267 (with IL Shrestha). DOI: 10.3126/njst.v12i0.6511
4. Categorical Regression Models with Optimal Scaling for Predicting Indoor Air Pollution Concentrations inside Kitchens in Nepalese Households, ***Nepal Journal of Science and Technology***, Volume 10, December, 2009, pp. 205-211. DOI: 10.3126/njst.v10i0.2962
5. Nonparametric Distribution Fitting of Age at First Marriage of Nepalese Women through Scatter Plot Smoother, ***Nepal Journal of Science and Technology***, Volume 9, December, 2008, 179-186 (with G Shrestha). DOI: 10.3126/njst.v9i0.3184
6. Application of Triple Exponential Smoothing Technique in the Analysis of Time Series with a Quadratic Trend, ***Nepal Journal of Science and Technology***, Volume 3, August, 2001.
7. Air Pollution in Kathmandu Municipality, ***Tribhuvan University Journal***, Volume XX, No. 1, June, 1997.

### b. International Journals

1. Region-wise Effects of Climate Sensitive Variables on Some Specific Disease Burdens in Nepal, ***The Open Atmospheric Science Journal***, Volume 10, pp. 63-83, Bentham Science Publishers, Online publication date: 30 November 2016 (with IL Shrestha and N Shrestha).  
DOI: 10.2174/1874282301610010063
2. Logistic Model as a Statistical Downscaling Approach for Forecasting a Wet or Dry Day in the Bagmati River Basin, ***The Open Atmospheric Science Journal***, Volume 9, pp. 9-22, Bentham Science Publishers, Online publication date: 31 July 2015 (with RM Shrestha and AB Sthapit).  
DOI: 10.2174/1874282301509010009
3. Dynamics of Population Ageing in Nepal, ***Journal of Population Ageing***, Volume 7, Number 2, pp. 81-95, May 10, 2014. Springer Publication, Netherlands. Published online: 25 February 2014 (with N Shrestha).  
DOI: 10.1007/s12062-014-9096-5.
4. 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, Volume 6, Bentham Science Publishers, April 20, 2012.  
DOI: 10.2174/1874282301206010062
5. Statistical Analysis of Factors Associated with Maternal Mortality in Nepal, ***International Journal of Statistical Sciences (IJSS)***, Volume 10, Rajshahi University, Bangladesh, December 10, 2010 (with G Shrestha).
6. 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)***, Volume 12, Number 3, pp 239 – 251, August, 2007, Springer Publication, Netherlands, On line publication, February 6, 2007. DOI: 10.1007/s10666-006-9071-5
7. 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, No. 4, pp. 359-372, 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
8. 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, No. 2, APR/JUN 2005, Abel Publication Services, Inc., NC, USA (with IL Shrestha).  
DOI: 10.1179/oeht.2005.11.2.150

**Google Scholar Citations of research articles: More than 100**

### c. Seminar Proceedings

1. ***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 (with RM Shrestha and AB Sthapit).

2. **Status of ambient air quality in Kathmandu valley assessed by  $PM_{2.5}$ , 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).
3. **Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments, Abstracts**, The Sixth National Conference on Science and Technology, NAST, 2012.
4. **Statistical Analysis of Factors Associated with Maternal Mortality in Nepal, Abstracts**, The Fifth National Conference on Science and Technology, NAST, 2008.
5. **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. **Seasonally separated logistic models to assess the impact of atmospheric variables on occurrence of rainfall in the Bagmati river basin, Nepal** presented at The 7<sup>th</sup> National Conference on Science and Technology, NAST, March 29-31, 2016 (with Presenter RM Shrestha and AB Sthapit).
2. **Status of ambient air quality in Kathmandu valley assessed by  $PM_{2.5}$ , PL01: 03 (Plenary Session)** presented at the First National Summit of Health and Population Scientists in Nepal, 11-12 April 2015 organized by Nepal Health Research Council (NHRC), Kathmandu (with P Dhakal: presenter, KB Karki, H Joshi, S Puri, SC Barma & A Pokharel).
3. **Censored Negative Exponential Distribution as Mixed Distribution and Derivation of its Moments** presented at The Sixth National Conference on Science and Technology, September 25-27, 2012, organized by Nepal Academy of Science and Technology (NAST) and conducted at the venue Everest Hotel, Kathmandu.
4. **Estimating Health Effect Coefficients Attributed to Ambient Particulate Air Pollution**, presented at a talk program organized by Operation Research Society of Nepal (ORSN), May 4, 2011.

5. **Data Management and Analysis of Survey Data** at Workshop on **Official Statistics in Nepal for Post graduate Statistics students, TU** organized jointly by Central Department of Statistics, TU and Central Bureau of Statistics, Government of Nepal from February 27 to March 18, 2011.
6. **Statistical Analysis of Factors Associated with Maternal Mortality in Nepal** presented at The Fifth National Conference on Science and Technology, November 10-12, 2008, Kathmandu. Organized by Nepal Academy of Science and Technology (NAST), Khumaltar, Kathmandu.
7. **Data Processing and Management**, Research Methodology Training, Central Department of Statistics, TU with the support of University Grants Commission, June 15 - 23, 2008.
8. **Concepts on Probability, Probability Distribution and Analysis of Variance**, Workshop on Research Methodology, Central Department of Botany, TU, Kirtipur, Nepal, July, 2007.
9. **The Assessment of Environmental Burden of Disease (EBD) at Local Levels due to Ambient Air Pollution within Kathmandu Valley** presented at 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.
10. **Health Effects and Modeling of Indoor Air Pollution from Biomass Fuels** presented at seminar / workshop on Some Application of Statistics in Development Initiatives with Special Reference to Nepal, May 28–30, 2006. Organized jointly by Central Department of Statistics, Kirtipur and Prithvi Narayan Campus, Pokhara.
11. **Population Aging in Nepal and Some of its Demographic Measures** presented at International Seminar on Population Aging in SAARC Countries, University of Rajshahi, Bangladesh (with G Shrestha), 1996.

## 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.

**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 (ongoing), CDs, TU. (Supervisor AB Sthapit)

**c. Studies/Researches**

Conducted studies/researches related to science and technology, environmental health, climate change, sampling design, etc.

**d. 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.