

SUBHASH ARYAL

Assistant Professor, Department of Biostatistics
University of North Texas Health Science Center, Fort Worth, Texas
(817)735-2076
subhash.aryal@unthsc.edu

Education

Ph.D., University of Illinois at Chicago, Chicago, IL (2008); Biostatistics.

M. S., University of Illinois at Chicago, Chicago, IL (2004); Biostatistics.

B. S., University of South Alabama, Mobile, AL (2001); Mathematics & Statistics.

B. A., Tribhuvan University, Kathmandu, Nepal (1998); Mathematics & Statistics.

Positions and Employment

Aug. 2008 - Assistant Professor of Biostatistics, University of North Texas Health Science Center, Fort Worth.

Jan. 2006 - July 2008 Graduate Research Assistant, University of Illinois at Chicago, Chicago, IL.

Aug. 2002 - Aug. 2004 Graduate Research Assistant, University of Illinois at Chicago, Chicago, IL.

Aug. 2002 - May 2008 Teaching Assistant, University of Illinois at Chicago, Chicago, IL.

May 2000 - Aug. 2000 Research Assistant, University of South Alabama, Mobile, AL.

Awards

Haenszel Award for Excellence in Research
University of Illinois at Chicago, School of Public Health, 2008.

Pre-Doctoral Fellowship
University of Illinois at Chicago, Department of Psychiatry Aug 2004- July 2008.

Sushila Dubey Mishra Scholarship in Mathematics and Statistics
University of South Alabama 2001.

Publications

Book

Gibbons, R. D., Bhaumik, D. K. and Aryal, S. *Statistical Methods for GroundWater Monitoring*, 2nd ed. Wiley. 2009.

Journal Articles

Pavuluri, M., Schenkel, L., Aryal, S., Harral, E., Herbener, E., Hill, S. and Sweeney, J. (2006). Neurocognitive Function in Unmedicated Manic and Medicated Euthymic Pediatric Bipolar Patients. *American Journal of Psychiatry*, 163, 286-293.

Roy, A., Bhaumik, D. K., Aryal, S. and Gibbons, R. D. (2007). Sample size Determination for Hierarchical Longitudinal Designs with Differential Attrition Rates. *Biometrics*, 63, 699-707. DOI:10.1111/j.1541-0420.2007.00769.x.

Hossain, M. A., Islam, N., Aryal, S. and Madanes, A. (2007). The Prevalence of Circulating AntiSperm Antibody (ASA) in Infertile Population Representing of all Etiologies. *Middle East Fertility Society Journal*, 12 (1), 27-30.

Aryal, S., Bhaumik, D. K., Mathew, T. and Gibbons, R. D. (2008). Approximate Tolerance Limits and Prediction Limits for the Gamma Distribution. *Journal of Applied Statistical Science*, 16 (2), 253-262.

Mulekar, M. S., Gonzales, S. and Aryal, S. (2008). Bias and Variance Estimates for the Overlap of Two Exponential Distributions. *American Journal of Mathematical and Management Sciences*, 28, 61-79.

Bhaumik, D. K., Roy, A., Aryal, S., Hur, K., Duan, N., Normand, S-L T., Brown, C. H. and Gibbons, R. D. (2008). Sample Size Determination for Studies with Repeated Continuous Outcomes. *Psychiatric Annals*, 38, 765-771.

Bhaumik, D. K., Santra, S., Aryal, S. and Gibbons, R. D. (2008). One-sided simultaneous prediction limits for left-censored normal random variables. *Sankhya, Series B*. 70, 248-266.

Aryal, S., Bhaumik, D. K., Santra, S. and Gibbons, R. D. (2009). Confidence Interval for Random-Effects Calibration Curves with Left-Censored Data. *Environmetrics*, 20, 181-189. DOI:10.1002/env.920

Bhaumik, D. K., Roy, A., Lazar, N., Kapur, K., Aryal, S., Sweeney, J., Patterson, D. and Gibbons, R. D. (2009). Hypothesis Testing, Power and Sample Size Determination for Between Group Comparisons in fMRI Experiments. *Statistical Methodology*, 6, 139-146. DOI:10.1016/j.stamet.2008.05.003

Kapur, K., Roy, A., Bhaumik, D. K., Gibbons, R.D., Lazar, N., Sweeney, J., Aryal, S. and Patterson, D. (2009). Estimation and Classification of BOLD Responses Over Multiple Trials. *Communications in Statistics, Theory and Methods*, 38, 3099 -3113.

Research Interest and Technical Skills

Statistics: Environmental Monitoring, Hierarchical Linear and Non-Linear Mixed-Effects Modeling, Multivariate Analysis, Sample Size Determination and Power Analysis.

Computing Platforms: UNIX, WINDOWS.

Programming Languages: SAS, Minitab, Splus, SPSS, Fortran 90.

Text formatting and Office Computing: MS-Office, LaTeX.

Service

To the Profession:

- Journal Reviewer for *Computational Statistics and Data Analysis*, *Environmental Science and Technology*, *Journal of Statistical Software*, *Sankhya* and *Psychological Medicine*.

Professional Membership

- American Statistical Association