Anup Krishna Amatya
Curriculum Vitae

Professional Affiliation

Department of Public Health Sciences
College of Health and Social Services
New Mexico State University
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Education

2011 Ph.D., Biostatistics, University of Illinois at Chicago, Chicago, IL
Dissertation: Meta-analysis of Binary Rare Events.

2007 M.S., Biostatistics, University of Illinois at Chicago, Chicago, IL

2004 M.S., Electrical Engineering, University of Texas at Dallas, Richardson, TX

2001 B.S., Computer Engineering, University of South Alabama, Mobile, AL

Honors and Awards

2008–2011 Pre-Doctoral Fellowship, University of Illinois at Chicago

2011 Haenszel Award for Excellence in Research, School of Public Health, University of Illinois at Chicago

Professional Experiences

2011 Assistant Professor of Biostatistics, New Mexico State University, College of Health and Social Services, Department of Public Health Sciences

2005 Graduate Research Assistant/statistician, University of Illinois at Chicago, Departments of Biostatistics, Psychiatry, and Pathology

2005 Pharmacoepidemiology intern, The Degge Group, Arlington, VA

A. Grants and Subcontracts

2012 **Anup Amatya (Subcontract)**. Antidepressant Treatment and Suicidality: Biostatistical/Methodological Solutions (5R01MH080122-05 PI: Robert Gibbons, University of Chicago). Amatya: $7,100.00.

2013 **Anup Amatya (Co-Principal Investigator)**. Clinical and transitional research infrastructure network: IDeA-CTR. 9/15/2013 to 06/30/2018 (1U54GM104944-01A1 PI: Robert D. Langer, The University of Nevada Las Vegas) Amatya: $197,372 ($37,926/year for 5 years).

2014 **Anup Amatya (Biostatistician)** National Cancer Institute, NIH, Partnership for the advancement of cancer research: NMSU/FHCRC. (5U54CA132383-**06**, PI: Mary O'Connell, NMSU Argis #24395, NMSU Grant# 4341). Amatya: $5040.35

2014 **Anup Amatya (Biostatistician/Co-PI)** National Cancer Institute, NIH, Administrative Supplements to Support Assessment of Community Outreach Activities of the Community Networks Program Centers (CNPC) and Comprehensive Partnerships to Advance Cancer Health Equity (CPACHE) Programs. 9/01/2014 to 8/31/2015. PI: Mary O'Connell Co-PI: Palacios. $99,996 (Amatya: $9,999.6 [10%]).

2015 **Anup Amatya (Biostatistician)** National Cancer Institute, NIH, Partnership for the advancement of cancer research: NMSU/FHCRC. (5U54CA132383-**07**, PI: Mary O'Connell, NMSU Argis #24395, NMSU Grant# 4341). Amatya: $5040.35

B. Research and Creative Activity

I. Books

1. Gibbons, R. D. and **Amatya, A.** (2015). Statistical methods for drug safety. Chapman & Hall.
2. Bhaumik, D. K., **Amatya, A.**, Kush, K., Aryal, S. (2017). Sample size methodology and power analysis. Wiley & Sons.

II. Software Development

1. R package BinNor (2012): http://cran.r-project.org/web/packages/BinNor/index.html
2. R package OrdNor (2013): http://cran.r-project.org/web/packages/OrdNor/index.html
3. R package MultiOrd (2014): http://cran.r-project.org/web/packages/MultiOrd/index.html
4. R package PoisNor (2014): http://cran.r-project.org/web/packages/PoisNor/index.html

III. Peer reviewed articles

1. **Amatya, A.**, Demirtas, H. (2015). PoisNor: An R package for simultaneous generation of multivariate data with Poisson and normal marginals. *Communications in Statistics - Simulation and Computation* (Accepted for publication)
2. McDonald, J., Argotsinger, B., Mojarro, O., Rochat,R, **Amatya, A.** (2015). First trimester initiation of prenatal care in the US-Mexico border region. *Medical Care* (Accepted for publication)
3. **Amatya, A.**, Demirtas, H. (2015). OrdNor: An R Package for concurrent generation of correlated ordinal and normal data. *Journal of Statistical Software.* (In press).
4. **Amatya, A.**, Dulal, B., Normand, S.L., Greenhouse, J., Kaizar, E., Neelon, B., Gibbons, R. D. (2015). Likelihood-based Random Effect Meta-analysis of Binary Events. *Journal of Biopharmaceutical Statistics.* (In press).
5. Kratzke, C., **Amatya, A.**, Vilchis, H. (2015). Breast Cancer Prevention Knowledge, Beliefs, and Information Sources Between Non-Hispanic and Hispanic College Women

for Risk Reduction Focus. *Journal of Community Health*; 40(1), 124–130, PMID: 24989348. Available at: http://link.springer.com/article/10.1007/s10900-014-9908-9.

6. **Amatya, A.**, Demirtas, H. (2014). Simultaneous generation of multivariate mixed data with Poisson and Normal marginal. *Journal of Statistical Computation and Simulation*. (In press).

7. **Amatya, A.**, Demirtas, H.(2014). MultiOrd: An R package for generating correlated ordinal data. *Communications in Statistics - Simulation and Computation*; 44(7), 1683–1691.

8. Demirtas, H., **Amatya, A.**, and Doganay, B. (2014). BinNor: An R package for concurrent generation of binary and normal data. *Communications in Statistic-Simulation and Computation*; 43(3), 569579.

9. Kratzke, C., **Amatya, A.**, Vilchis, H. (2014). Differences Among College Women for Breast Cancer Prevention Acquired Information-Seeking, Desired Apps and Texts, and Daughter-Initiated Information to Mothers. *Journal of Community Health*; 39(2), 291-300.

10. **Amatya, A.**, Bhaumik, D., Gibbons, R.D. (2013). Sample size determination for clustered count data. *Statistics in Medicine*; 17, 4162–4179.

11. Gann, P., Deaton, R., **Amatya, A.**, Mohnani, M., Rueter, E., Yang, Y., Ananthanarayanan, V. (2013). Development of a Nuclear Morphometric Signature for Prostate Cancer Risk in Benign Biopsies. *PLoS ONE* 8(7):1-9.

12. Kratzke, C., Vilchis, H., **Amatya, A.** (2013). Breast Cancer Prevention Knowledge, Attitudes, and Behaviors Among College Women and Mother-Daughter Communication. *Journal of Community Health*; 38(3):560-8.

13. Dulal, B., **Amatya, A.**, Normand, S.L., Greenhouse, J., Kaizar, E., Neelon, B., Gibbons, R. D. (2012). Meta-Analysis of Rare Binary Adverse Event Data. *Journal of American Statistical Association*; 107(498), 555–567.

14. Wilson, SL, Gallivan, A., Kratzke, C., **Amatya, A.** (2012). Nutritional status and socio-ecological factors associated with overweight/obesity at a rural-serving US-Mexico border university. *The Journal of Rural and Remote Health*; 12(4):2228.

15. Ananthanarayanan, V., Deaton, R. **Amatya, A.**, Macias, V., Luther,E., Kajdacsy-Balla, A., Gann, P. (2011). Subcellular Localization of p27 and Prostate Cancer Recurrence: Automated Digital Microscopy Analysis of Tissue Microarrays. *Human Pathology*; 42(6):873-81.

16. Bhaumik, D., Aryal, S., **Amatya, A.**, Kapur, K., Gibbons, R. (2011). Sample Size Determination for Between Group Comparisons in Mixed-Effects Logistic Regression Models for Analysis of Longitudinal Data. *Journal of Applied Statistical Sciences*; 19(1):11–22.

17. Gibbons, R., **Amatya, A.**, Brown, H., Hur, K., Marcus, S, Bhaumik, D., Mann, J.J. (2010) Post-Approval Drug Safety Surveillance. *The Annual Review of Public Health*. 31:1.1-1.19

18. Amatya, A., Florman, S., Paramesh, A., **Amatya, A.**, McGee, J., Killackey, M., Alper, B., Heneghan, J., Simon, E., Sullivan, K., Douglas Slakey and Rubin Zhang (2010). HLA-matched Kidney Transplantation in the Era of Modern immunosuppressive Therapy. *Dialysis and Transplantation*; 39(5):193–198.

19. Demirtas, H., **Amatya, A.**, Pugach, O., Cursio, J., Shi, F., Morton, D. Doganay, B. (2009) Accuracy versus convenience: a simulation-based comparison of two continuous imputation models for incomplete ordinal longitudinal clinical trials data. *Statistics and Its Interface*; 2(4): 449-456.

20. Gonzalez, R., Jacobus, J., **Amatya, A.**, Quartana, P. Q., Vassileva, J., and Martin, E.M. (2008). Deficits in complex motor functions, despite no evidence of procedural learning deficits, among HIV+ individuals with history of substance dependence. *Neuropsychology*; 22(6):776–786

21. Gibbons, R., Segawa, E., Karabatsos, G. **Amatya, A.**, et al.(2008).Random-effect Poisson Regression Analysis of Adverse Event Reports: The Relationship between Antidepressants and Suicide. *Statistics in medicine*; 11:1814–1833.

22. Bell, C.C., Bhana, A., Petersen, I., McKay, M., Gibbons, R., Bannon, W., **Amatya, A.** (2008). Building Protective Factors to Offset Sexually Risky Behaviors Among Black South African Youth: A Randomized Control Trial. *Journal of National Medical Association*;100(8): 936–943.

IV. Oral Presentations At International Conferences (Presenter: Amatya)

1. Sample size determination for clustered count data. International Biometric Society: Eastern North American Regional Meetings, Miami, FL, March 2011.

2. Meta-analysis of rare binary event data. International Biometric Society: Eastern North American Regional Meetings, Washington, DC, April 2012.

3. Multiord: An R package for generating correlated ordinal Data. Joint Statistical Meeting, Montreal, Canada, August 2013.

4. Sample size determination for three-level generalized linear mixed-models. Joint Statistical Meeting, Boston, MA, August 2014.

V. Statistical Consultations/Poster Presentation

1. Statistical consultant for several grant applications

2. Stewart A. *et. al.*, (2006). *Does physical anhedonia play a role in depression? A 20-year longitudinal study.* Journal of Affective Disorders,120(1), Pages 170–176. Role: Statistical analysis.

3. Rao S, **Amatya A**, Patel P. (2010). *Predictors of computed tomography scan use in CAD patients in emergency departments in United States.* Value in Health. 13(3). Role: Statistical analysis.

4. Kittleson, Mark J., Wilson, S., Kratzke, C., **Amatya A**, and Pilley, A. *Domestic Violence among College Students in a Minority Serving Institution.* American Association of Health Education (AAHE), Charlotte, NC 2013. Role: Statistical analysis.

5. Olsen, L., Pena De La Cruz, A., Pena De La Cruz, G., Anchalee, D., Nattaya, P.,and **Amatya A**. *Fat Phobias held by HS students in Mexico and Thailand.* Abstract for the AAHPERD National Convention and Exposition. 2014. Role: Statistical analysis.

6. Olsen, L., Duvall, A., Pena De La Cruz, A., and **Amatya A**. *Fat Phobias of Thai High School Youth.* Poster Session at SOPHE 66th Annual Meeting, Portland, Oregon. 2015. Role: Statistical analysis.

Computer Skills

- **Advanced SAS Certified Programmer**
- Programming Languages: FORTRAN, C, C++, JAVA
- Software: MATLAB, SAS, WINBUG, R, SPSS