

Curriculum Vitae

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PRESENT POSITION : Associate Professor
Department of Statistics, Biostatistics & Informatics
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DATE OF BIRTH : March 01, 1977

GENDER : Male

NATIONALITY : Bangladeshi

FATHER'S NAME : Md. Amzad Hossain

MOTHER'S NAME : Mrs. Laily Begum

MARITAL STATUS : Married

SPOUSE'S NAME : Maksuda Khanam

RESEARCH INTEREST

- 1) Generalized Estimating Equations Approach in Capture-Recapture Models: Methods and Applications
- 2) Specific Issues on Ecology based on Statistical Analysis
- 3) Model Selection, Estimation and Goodness-of-Fit Tests
- 4) Demand for Health Care and Health Care Issues
- 5) Econometric Applications based on Current Challenges

ACADEMIC QUALIFICATIONS

- 1) PhD in Mathematics (Specialization in Statistics) (Under Erasmus Mundus Mobility with Asia-West (EMMA-WEST) funded by European Union) awarded with distinction, 13th June 2014, Research Centre for Mathematics and Applications (CIMA-U.E.), University of Évora, Portugal.
- 2) M.A. in International Political Economy (Equivalent to M.Phil. by the University of Dhaka) (Under the Joint Japan/World Bank Graduate Scholarship Program, Major in Economics), 2009, Graduate School of Humanities and Social Sciences, Program in International Political Economy, University of Tsukuba, Japan.
- 3) Master of Science in Statistics (Thesis Group), 1999, Department of Statistics, University of Dhaka, Bangladesh.
- 4) Bachelor of Science (B.Sc.) (Honours) in Statistics, 1998, Department of Statistics, University of Dhaka, Bangladesh.
- 5) Higher Secondary Certificate (H.S.C.), 1994, Cantt. Public School & College, Bogra, Bangladesh.
- 6) Secondary School Certificate (S.S.C.), 1992, Lakshmipur Bilateral High School, Gaibandha, Bangladesh.

OTHER ACADEMIC QUALIFICATION

- 1) Diploma in Human Rights and Legal Aid, 2006, Humanist and Ethical Association of Bangladesh (HEAB) in collaboration with Dhaka International University, Dhaka, Bangladesh.

PUBLISHED BOOKS

- 1) Akanda, M. A. S. and Khanam, M. (2011). Goodness-of-Fit Tests for GEE Model: Methods and Applications, VDM Verlag Dr. Müller, ISBN: 978-3-639-35122-4, Saarbrücken, Germany.
- 2) Akanda, M. A. S. (2011). Demand for Health Care and Health Care Expenditure: Applications and Policy Implications in Bangladesh, LAP Lambert Academic Publishing, ISBN: 978-3-8443-8545-8, Saarbrücken, Germany.

SUBMITTED PAPERS

- 1) Akand, M. A. S. and Alpizar-Jara, R. (submitted). ‘A Generalized Estimating Equations Approach and Model Selection Allowing for Heterogeneity and Time Dependence.’ *SpringerPlus*.
- 2) Akand, M. A. S. and Alpizar-Jara, R. (submitted). ‘Generalized additive models and generalized estimating equations to capture-recapture closed population models.’ *Atas do XXI Congresso Anual da Sociedade Portuguesa de Estatística*.

PUBLISHED PAPERS IN JOURNALS

- 1) Akanda, M. A. S. and Alpizar-Jara, R. (2014). ‘Estimation of Capture Probabilities Using Generalized Estimating Equations and Mixed Effects Approaches.’ *Ecology and Evolution*, **4(7)**, pp.1158–1165.
- 2) Akanda, M. A. S. and Alpizar-Jara, R. (2014). ‘A Generalized Estimating Equation Approach for Capture-Recapture Closed Population Models.’ *Environmental and Ecological Statistics*, DOI: 10.1007/s10651-014-0274-7.
- 3) Akanda, M. A. S., Khanam, M. and Shafiullah, A. Z. M. (2014). ‘Determinants of Earnings and Selection into Labor Market by Controlling Selection Bias in Bangladesh.’ *Dhaka Univ. J. Sci.*, **62(1)**, pp.11–16.
- 4) Akanda, M. A. S. and Alpizar-Jara, R. (2013). ‘Estimation of Capture Probabilities Using a GEE Approach.’ *Atas do XX Congresso Anual da Sociedade Portuguesa de Estatística* (Maia, M., Campos, P. and Silva, P. D., eds.), pp. 27–35.

- 5) Akanda, M. A. S. (2012). 'Demand for Institutional Delivery in Bangladesh: An Application of Household Production Function.' *Dhaka Univ. J. Sci.*, **60(1)**, pp.53–59.
- 6) Akanda, M. A. S. (2011). 'HYV Technology on Non-Farm Labor and Adoption by Gender in Bangladesh: An Econometric Analysis.' *Stamford Journal of Business Studies*, **4(2)**, pp.43–52.
- 7) Akanda, M. A. S. and Minowa, M. (2011). 'Household Demand for Health Care and Health Care Expenditure by Controlling Endogeneity Bias in Bangladesh.' *Dhaka Univ. J. Sci.*, **59(1)**, pp.137–146.
- 8) Ahmed, A., Hoque, S., Ohlson, M., Akanda, M. A. S. and Moula, M.G. (2010). 'Phytoplankton Standing Crop and its Diversity in the Buragauranga River Estuary in Relation to Chemical Environment.' *Bangladesh J. Bot.*, **39(2)**, pp.143–151.
- 9) Akanda, M. A. S. (2010). 'Consumption Smoothing Behavior through Savings and Borrowings: A Household Study in Bangladesh.' *Stamford Journal of Business Studies*, **3(2) & 4(1)**, pp.129–136.
- 10) Akanda, M. A. S. (2010). 'Demand for Antenatal Care in Bangladesh: An Application of Two-Part Model.' *South Asian Journal of Population and Health*, **3(1)**, pp.29–41.
- 11) Akanda, M. A. S. (2010). 'Returns to Education in Nepal: Evidence from Living Standard Survey.' *Dhaka Univ. J. Sci.*, **58(2)**, pp.257–264.
- 12) Akanda, M. A. S. (2010). 'Relationship between Prenatal Care and Infant Mortality: Evidence from Bangladesh Demographic and Health Survey.' *South Asian Journal of Population and Health*, **3(2)**, pp.191–202.
- 13) Akanda, M. A. S. and Khanam, M. (2007). 'Fitting GEE Models and Goodness-of-Fit Tests for Delivery Complications in Rural Bangladesh.' *Aust. J. Basic Appl. Sci.*, **1(4)**, pp.431–440.
- 14) Ahmed, A. and Akanda, M. A. S. (2007). 'Relationship among Phytoplankton Diversity, Physical and Chemical Properties of the Padma River.' *Dhaka Univ. J. Biol. Sci.*, **16(1)**, pp.21–27.
- 15) Khanam, M. and Akanda, M. A. S. (2007). 'Determinants of Delivery Complications in Rural Bangladesh.' *J. Appl. Sci. Res.*, **3(11)**, pp.1320–1326.

- 16) Akanda, M. A. S. and Khanam, M. (2007). ‘Analysis of Maternal Health Complications in Rural Bangladesh by Using GEE.’ *Dhaka Univ. J. Sci.*, **55(1)**, pp.91–95.
- 17) Akanda, M. A. S. and Khanam, M. (2005). ‘Goodness-of-Fit Tests for GEE Models Using Kappa-like Statistic to Diabetes Mellitus Study.’ *J. Appl. Sci.*, **5(9)**, pp.1597–1601.
- 18) Akanda, M. A. S., Jahan, K., Khanam, M. and Islam, M. A. (2005). ‘Generalized Estimating Equations for Conditional and Unconditional Residuals in Diabetes Mellitus Data.’ *J. Appl. Sci.*, **5(7)**, pp.1228–1231.
- 19) Akanda, M. A. S., Khanam, M. and Islam, M. A. (2005). ‘Comparison of Goodness-of-Fit Tests for GEE Modeling with Binary Responses to Diabetes Mellitus.’ *J. Appl. Sci.*, **5(7)**, pp.1214–1218.

CONFERENCE PRESENTED PAPERS

- 1) Akanda, M. A. S. and Alpizar-Jara, R. (2013). ‘Generalized Estimating Equations and Mixed Effect Modeling Approaches in Capture-Recapture Closed Population Models.’ *Resumos de XXI Congresso da Sociedade Portuguesa de Estatística*, pp.233–235.
- 2) Akanda, M. A. S. and Alpizar-Jara, R. (2013). ‘Estimation of Capture Probabilities using GEE and Mixed Effect Approaches.’ *Abstract of EUR-ING 2013 Analytical Meeting & Workshop*, April 28-May 4, 2013, Athens, Georgia, USA, pp.44.
- 3) Akanda, M. A. S. and Alpizar-Jara, R. (2012). ‘A Generalized Estimating Equation Approach for Estimating Population Size by Using Capture-Recapture Data.’ *Abstract of International Statistical Ecology Conference 2012*, 3-6 July 2012, Sundvolden Hotel, Oslo, Norway, Abstract no.125.
- 4) Akanda, M. A. S. and Alpizar-Jara, R. (2012). ‘Estimation of Capture Probabilities and Model Selection Using a Generalized Estimating Equation Approach.’ *Resumos de XX Congresso Anual da Sociedade Portuguesa de Estatística*, 26–29 September 2012, Porto, Portugal, pp.595-596.

THESIS PAPERS

- 1) Akanda, M. A. S. (2014). ‘A Generalized Estimating Equations Approach to the Capture-Recapture Closed Population Models: Methods and Applications.’ PhD Thesis, Research Centre for Mathematics and Applications (CIMA-U.E.), University of Évora, Portugal.
- 2) Akanda, M. A. S. (2009). ‘Demand for Health Care and Health Care Expenditure: A Household Study in Bangladesh.’ M.A. Thesis, Graduate School of Humanities and Social Sciences, Doctoral Program in International Political Economy, University of Tsukuba, Japan.
- 3) Akanda, M. A. S. (2001). ‘Goodness-of-Fit Tests for GEE Modeling with Binary Responses to Diabetes Mellitus.’ M.Sc Thesis, Department of Statistics, University of Dhaka, Bangladesh.

AWARDS/SCHOLARSHIPS

- 1) ‘Erasmus Mundus Mobility with Asia-West (EMMA-WEST)’ Scholarship (September, 2011- July, 2014) funded by European Union to PhD study in the Department of Mathematics (Specialization in Statistics) at the University of Évora, Portugal.
- 2) ‘Stipends for Participants from Developing Countries’ from the International Statistical Ecology Conference 2012, Sundvolden Hotel, Oslo, Norway.
- 3) ‘Joint Japan/World Bank Graduate Scholarship’ (April, 2007-March, 2009) to study M.A. in International Political Economy jointly selected by the World Bank Committee at the University of Tsukuba, Japan and the authorities of World Bank.
- 4) ‘Dean’s Special Award’ from the Faculty of Science, University of Dhaka for the extra ordinary performance in B.Sc.(Honours) Examination.
- 5) ‘Governmental General Merit Scholarship’ (1997–1998) for academic excellence and best conduct from the Government People’s Republic of Bangladesh.
- 6) ‘Hall Sub-Scholarship’ (1995–96) for the academic result from the Shahidullah Hall, University of Dhaka.
- 7) ‘Gaibandha Zila Student Welfare Association’s Scholarship’ (1996–97 and 1998–99) for the academic result and the inhabitants of Gaibandha district.

PROFESSIONAL EXPERIENCES

- 1) Associate Professor, Department of Statistics, Biostatistics & Informatics, University of Dhaka, Bangladesh. March 06, 2014 to onwards.
- 2) Assistant Professor, Department of Statistics, Biostatistics & Informatics, University of Dhaka, Bangladesh. September 06, 2009 to March 05, 2014 onwards.
- 3) Lecturer, Department of Statistics, University of Dhaka, Bangladesh. October 30, 2003 to September 05, 2009.
- 4) Assistant House Tutor, Fazlul Huq Muslim Hall, University of Dhaka, Bangladesh. September 02, 2004 to April 15, 2007.
- 5) Lecturer (Statistics), Department of Computer Sciences and Engineering, Dhaka International University, Banani, Dhaka-1212, Bangladesh. January 05, 2003 to October 30, 2003.

PRECEDING GUEST TEACHER

- 1) Dhaka International University, Banani, Dhaka-1212, Bangladesh for the Department of Bachelor of Business Administration and Department of Computer Science and Engineering. October 31, 2003 to March 28, 2007.
- 2) Institute of Cost and Management Accountants of Bangladesh (ICMAB), Nilkhet, Dhaka-1000, Bangladesh. January, 2006 to December, 2006.
- 3) Stamford University Bangladesh, Dhanmondi, Dhaka for the Department of Bachelor of Business Administration. January, 2006 to March, 2007.
- 4) Green University of Bangladesh, Dhaka for the program of Master of Business Administration. January, 2006 to December, 2006.

PARTICIPATION IN INTERNATIONAL CONFERENCES

- 1) The XXI Congress of the Portuguese Statistical Society, November 29–December 02, 2013, Aveiro, Portugal.
- 2) The EURING 2013 Analytical Meeting & Workshop, April 28–May 4, 2013, Athens, Georgia, USA.

- 3) The Ecological & Environmental Statistical Modelling Symposium, April 11, 2013, Instituto Superior de Agronomia, Lisbon, Portugal.
- 4) The XX Congress of the Portuguese Statistical Society, September 26-29, 2012, Portuguese Catholic University in Porto, Portugal.
- 5) The International Statistical Ecology Conference 2012, July 3–6, 2012, Sundvolden Hotel, Oslo, Norway.
- 6) The First International Conference on Theory and Application of Statistics, Dhaka, December 26–28, 2010.
- 7) The Joint Japan/World Bank Graduate Scholarship Program (JJ/WBGSP) Tokyo Conference, June, 2007.

PARTICIPATION IN WORKSHOP

- 1) Workshop in Statistical Inference in Linear Models, April 27, 2012, at the Universidade de Évora, Portugal.

PROFESSIONAL MEMBERSHIPS

- 1) Member of Research Center in Mathematics and Applications (CIMA-UE), University of Évora, Portugal.
- 2) Life member of Bangladesh Statistical Association, Dhaka, Bangladesh.
- 3) Life member of Dhaka University Statistics Department Alumni Association (DUSDAA), Dhaka, Bangladesh.
- 4) Member of the Technical Editorial board of the Research Journal of Applied Sciences published by International Network for Scientific Information.
- 5) Honorary member of Stem and Leaf, an association of the former and current students of the Department of Statistics, University of Dhaka, Bangladesh.

OTHER RELEVANT ACTIVITIES

- 1) Reviewer of Health Promotion International published by Oxford University Press, UK.
- 2) Reviewer of Journal of Advanced Social Research (JASR) published by Design for Scientific Renaissance, UK.

- 3) Reviewer of International Journal of Sociology and Anthropology (IJSA) published by Academic Journals, Nairobi, Kenya.

COMPUTER LITERACY

- Microsoft Office: Ms Word, Ms Excel, Ms Power Point and so on.
- Programs and Packages: FORTRAN, SPSS, SAS, STATA, C++, S-PLUS, R-Language, MARK, LaTeX, FoxPro etc.
- Web Design: HTML, Java script.

LANGUAGE PROFICIENCY:

- Bengali (Native), English (Fluent), Japanese (Medium) and French (Poor).

TRAVELLING IN FOREIGN COUNTRIES

- Austria, Belgium, China, France, Germany, Hong Kong, India, Japan, Nepal, Netherlands, Norway, Portugal, Spain, Switzerland, United States of America (USA).

REFERENCES

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