Mahbub A.H.M. Latif

CONTACT INFORMATION

Institute of Statistical Research and Training
University of Dhaka, Dhaka 1000, Bangladesh
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CITIZENSHIP

Bangladeshi

RESEARCH INTERESTS

Design and analysis of experiments, medical statistics, statistical computing, pharmaceutical statistics

EDUCATION

University of Goettingen, Germany

Ph.D., Applied Statistics — October 2002 to November 2005

- Thesis topic: *"Efficiency and robustness issues in complex statistical designs for two-color microarray experiments"*
- Advisor: Dr. Edgar Brunner

University of British Columbia, Vancouver, BC, Canada

M.Sc., Statistics — September 1999 to November 2001

- Thesis topic : *"A comparison of the methods for multivariate familial responses"*
- Advisor : Dr. Harry Joe

University of Dhaka, Dhaka, Bangladesh

M.Sc., *Statistics* (thesis group) — August 1993 to August 1995

- Thesis topic: "*Extensions of multistate hazards models for transitions and reverse transitions"*
- Advisor : Dr. M. Ataharul Islam

B.Sc., *Statistics* — August 1988 to August 1993

- Minors: *Mathematics* and *Economics*

ACADEMIC EXPERIENCE

Institute of Statistical Research and Training, University of Dhaka, Bangladesh

Associate Professor of Applied Statistics — December 2007 to present

Assistant Professor of Applied Statistics — June 1999 to December 2007

Lecturer of Applied Statistics — May 1996 to June 1999

Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK

Visting Fellow — July 2011 to October 2011

Visting Fellow — July 2008 to August 2008

Queen Mary University of London, London, United Kingdom

Postdoctoral Research Assistant — February 2008 to January 2010

- Advisor : Dr. Steven G. Gilmour, Professor, School of Mathematical Sciences

University of Goettingem, Germany

Research Assistant — October 2002 to September 2003

- Advisor : Dr. Edgar Brunner, Professor, Department of Medical Statistics

University of British Columbia, Vancouver, BC, Canada

Research Assistant May 2000 to June 2002

- Advisor : Dr. Harry Joe, Professor, Department of Statistics

Teaching Assistant September 1999 to April 2000

- Demonstrated computer labs for introductory statistics courses

Research Publications (selected)

Latif AHMM and Gilmour SG (2011). *Transform-both-sides model for randomized experiments*. Submitted.

Ullah MA, Dowla S, Maruf MA, Azad MAK, Shohag MH, Sultana R, Latif AHMM, Hasnat A (2010). *Relative bioavailability and pharmacokinetic properties of two different enteric formulations of esomeprazole in healthy Bangladeshi male volunteers: an open-label, single-dose, randomized, two-way crossover study*. **Clinical Therapeutics**, 32(7), 1420–1426. [DOI: 10.1016/j.clinthera.2010.07.007]

Latif AHMM, Bretz F, and Brunner E (2009) *Robustness considerations in selecting efficient two-color microarray designs*. **Bioinformatics**, 25(18), 2355–2361. [DOI: 10.1093/bioinformatics/btp407]

Latif AHMM, Hossain MZ, and Islam MA (2008) *Model selection using modified Akaike's Information Criterion : an application to maternal morbidity data*. **Austrian Journal of Statistics**, 37(2), 175–184.

Lippert U, Zachmann K, Ferrari DM, Schwarz H, Brunner E, Latif AHMM, Neumann C, and Soruri A (2008) *CD137 ligand reverse signalling has multiple functions in human dendritic cells during an adaptive immune response*. **European Journal of Immunology**, 38(4), 1024–1032. [DOI: 10.1002/eji.200737800]

Joe H and Latif AHMM (2005) *Computations for the familial analysis of binary traits*. **Computational Statistics**, 20(3), 439–448. [DOI:10.1007/BF02741307]

Latif AHMM and Islam MA (1999) *An extension of multistate hazards model for transitions and reverse transitions*. **Journal of Applied Statistical Science**, 9(1), 11–21.

Talks

"Optimum designs for transform-both-sides nonlinear mixed effects models in the presence of covariates", Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK, August 11, 2011.

"Design and analysis of transform-both-sides nonlinear models", Queen Mary University of London, UK, January 28, 2010.

"Designing biological kinetics", Queen Mary University of London, UK, December 2, 2009.

"Analysis of transform-both-sides nonlinear regression models", Spring Research conference, Vancouver, Canada, May 27, 2009.

"Analysis of transform-both-sides Michaelis-Menten model", Queen Mary University of London, January 15, 2009.

"Selection of good two-color microarray designs using genetic algorithms", Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK, August 12, 2008.

"Robustness considerations in selecting two-color efficient microarray designs", University of Dhaka, March 4, 2006.

"Robustness considerations in selecting two-color microarray designs", Biometric conference of the German region, Halle (Saale), March 22, 2005.

"Comparisons of methods for binary responses", University of British Columbia, Vancouver, Canada, October 4, 2001.

Scholarships, Awards

A fellowship (of amount £6500) from the Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK to attend the Design of Experiment program, which was held between July 18 – December 21, 2011.

A fellowship (of amount £1352) from the Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK to attend the Design of Experiment program, which was held between July 21 – August 15, 2008.

Georg-Christoph-Lichtenberg Scholarships, University of Goettingen, Germany, 2003–05

Graduate studies scholarships, University of British Columbia, Canada, 1999–2002.

University of Dhaka "Book Prize" for securing the first position (in first class) in BSc (honors) examination in Statistics, 1993

University of Dhaka "Merit Scholarship" for the performance in BSc (honors) examination in Statistics, 1993–95

Rajshahi Educational Board "Merit Scholarship" for the performance in the Secondary Certificate Examination, 1985–87

Courses Taught

Graduate courses : survival analysis, multivariate methods, microarray data analysis, computational statistics

Undergraduate courses: design and analysis of experiments, biostatistics, epidemiology, regression analysis, programming with Fortran and C, basic statistics, research methodology

Thesis Supervision

So far I have supervised 10 students for their MS thesis in Applied Statistics at the University of Dhaka. Currently, four students are working with me for their MS thesis in Applied Statistics. My research students work in survival analysis (e.g. frailty models, competing risks, etc.) and in design and analysis of experiments (e.g., pharmacokinetic experiments).

Journal Refereeing

- Journal of Royal Statistical Society, series C
- Journal of Statistical Planning and Inference
- Statistics and Computing
- Communications in Statistics: Theory and Methods
- Pakistan Journal of Statistics
- Journal of Statistical Research

Professional Memberships

- Life member, Bangladesh Statistical Association (BSA)
- Fellow, Royal Statistical Society (RSS)
- Member, International Society for Computational Biology (ICMB)