CURRICULUM VITAE
PART I: GENERAL INFORMATION

DATE PREPARED: September 28, 2012

NAME: MEI-LING TING LEE (formerly MEI-LING TING)

HOME ADDRESS: 3717 Village Park Dr., Chevy Chase, MD 20815

OFFICE ADDRESS: Chair and Professor, Department of Epidemiology and Biostatistics
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PLACE OF BIRTH: Taipei, Taiwan, R.O.C.

CITIZENSHIP: Naturalized Citizen of the United States of America

EDUCATION:

1975	B.S.	National Taiwan University (Mathematics)
1977	M.S.	National Tsing-Hua University (Mathematics)
1978	M.A.	University of Pittsburgh (Mathematics/Statistics)
1980	Ph.D.	University of Pittsburgh (Mathematics/Statistics)

AWARDS AND HONORS:

1979	Teplitz-Culver Award: Outstanding Student in Mathematics, University of Pittsburgh, Pennsylvania
1979	Outstanding Student, American Statistical Association, Pittsburgh Chapter
1995	Elected Member, International Statistical Institute, the Netherlands
1998	Elected Fellow, Royal Statistical Society, United Kingdom
1999	Elected Fellow, American Statistical Association, USA
2005	Elected Fellow, Institute of Mathematical Statistics, USA
2005	Mosteller Statistician of the Year, American Statistical Association, Boston Chapter

ACADEMIC APPOINTMENTS:

1983-1984	Assistant Professor, Department of Mathematics, Bridgewater State College, Massachusetts
1984-1992	Assistant Professor, Department of Mathematics, Boston University, Boston, Massachusetts
1992-1993	Visiting Scholar, Statistics Department, Harvard University, Boston, Massachusetts
1993-1999	Assistant Professor of Medicine (Biostatistics), Harvard Medical School, Boston, MA
1995-2000	Assistant Professor, Department of Biostatistics, Harvard School of Public Health, Boston, MA
2000-2005	Associate Professor of Medicine (Biostatistics), Harvard Medical School, Boston, MA
2000-2005	Associate Professor, Department of Biostatistics, Harvard School of Public Health, Boston, MA
2005-2007	Professor and Chair, Biostatistics Division, School of Public Health, The Ohio State University, OH
2007-2008	Distinguished Professor in Biostatistics and Computational Biology, The Ohio State University, OH
2008-	Professor and Director, Biostatistics Research Center, University of Maryland, College Park, MD
2012-	Chair and Professor, Epidemiology & Biostatistics Department, University of Maryland, College Park

HOSPITAL APPOINTMENTS:

1992-1993	Visiting Scholar, Biostatistics Division, Dana Farber Cancer Institute, Boston, MA
1992-2000	Associate Biostatistician, Brigham and Women's Hospital, Boston, Massachusetts
1998-2005	Associate Biostatistician, Massachusetts General Hospital, Boston, Massachusetts
2000-2005	Biostatistician, Brigham and Women's Hospital, Boston, Massachusetts

OTHER PROFESSIONAL POSITIONS AND VISITING APPOINTMENTS:

1981-1983	Statistical Coordinator, Quantitative Management Services, Data General Corporation, Westborough, Massachusetts
1987	Visiting Scientist, Institute of Statistical Sciences, Academia Sinica, Taipei, Taiwan
2007	Professeur Invité, l'Université René Descartes, Paris, France
2010-2014	Member, Advisory Committee, Cellular, Tissue, & Gene Therapy, U.S. Food & Drug Administration

COMMITTEE ASSIGNMENTS:

International

1992	External Examiner, Ph.D. Examination Committee, University of Manitoba, Canada
1997	Publication Chair, International Chinese Statistical Association
2002 -present	Program Committee, European Statistical Seminars in France, Germany and Russia
2001-2003	Member of the Board of Directors, International Chinese Statistical Association
2003	Reviewer, the Welcome Trust, U.K.
2004	Chair, Study Session on Bioinformatics, National Research Program on Genomic Medicine, Taiwan
2005	Member, Study Session on Bioinformatics, National Research Program on Genomic Medicine, Taiwan
2007	Chair, Review of Bioinformatics Cores, National Research Program on Genomic Medicine, Taiwan
2008	Publication Chair, International Chinese Statistical Association
2008	Reviewer, L'Agence Nationale de la Recherche, France
2008	Reviewer, the Welcome Trust, United Kingdom
2008	External Examiner, Ph.D. Committee, Université de Technologie de Compiègne, France
2009	External Examiner, Ph.D. Committee, University of Guelph, Canada
2009	Reviewer, Georgian National Science Foundation, Georgia Republic
2011	Reviewer, National Research Program for Biopharmaceuticals, Taiwan
2011	Reviewer, Core Facilities of the National Research Program for Genomic Medicine, Taiwan
2011	External Examiner, Ph.D. Committee, Mathematics Department, Université de Caen, France

National

1991	Technical Review Committee Meeting on Statistical Issues in Clinical Trials National Institute of Drug Abuse, Bethesda
1994-1996	Nomination Chair, Health Policy Statistics Section, American Statistical Association
2007-2010	Member, Committee on Outreach Education, the American Statistical Association
2000	Reviewer, Study Section for NIH/NIAID
2005	Reviewer, Study Section Genomic Applications, NIH/NIAID
2006	Reviewer, Study Session for Proteomics, NIH/NCI
2007	Reviewer, Study Session for NIH/NIAID
2008-2009	Reviewer, National Science Foundation
2008	Reviewer, Study Session for NIH/BMRD
2008	Reviewer, Site Visit, Biostatistics Branch, National Institute of Environmental Health Sciences
2009	Reviewer, Study Session for NIH/NIAID
2009	Consultant, Science Advisory Review, FDA Division of Personalized Nutrition and Medicine
2011	Reviewer, Study Session for NIH/BMRD
2011	Reviewer, Study Session for NIH/NIAID
2012	Reviewer, Study Session for NIH/NHBLI
2012	Reviewer, Study Session for NIH/NIAID

Regional

1985-1986	Graduate Committee, Department of Mathematics, Boston University
1987-1991	Undergraduate Committee, Dept. of Mathematics, Boston University
1988-1991	Library Committee, Department of Mathematics, Boston University
1992	Member, Local Arrangement Committee, ASA Joint Statistical Meetings 1992, Boston
1993-1994	Planning Committee, American Statistical Association, Boston Chapter
1994-1996	Program Chair, American Statistical Association, Boston Chapter
1995-2005	Library Committee, Biostatistics Department, Harvard University
1999-2001	Member, Review Committee for Adult Clinical Trials, Dana-Farber/Harvard Cancer Center
2004-2005	Member of the Advisory Group, Bioinformatics Core, Harvard School of Public Health
2005-2007	Chair, Diversity Committee, School of Public Health, Ohio State University
2005-2007	Member of the Appointment, Promotion and Tenure Committee, Ohio State University
2008-2010	Member, Faculty Senate Committee, University of Maryland at College Park (UMCP)
2011-	Member, College APT review committee, School of Public Health, UMCP

EDITORIAL BOARDS:

1991-1994	Associate Editor, *IEEE Transactions on Reliability*
1994-present	Founding Editor and Editor-in-Chief, *Lifetime Data Analysis*
1994-present	Served as a referee for many international journals on statistics and biomedical research

PROFESSIONAL SOCIETIES:

1980-1981	American Mathematical Society
1980-present	American Statistical Association
1985-present	Institute of Mathematical Statistics
1994-present	International Biometrics Society (ENAR)
1995-present	International Statistical Institute
1996-2005	Society of Microbial Ecology and Diseases
1998-present	Royal Statistical Society
2001-2008	International Society for Clinical Biostatistics

PART II: RESEARCH AND TEACHING CONTRIBUTIONS

A. NARRATIVE REPORT: My recent research has focused on the following areas:

(a) Statistical Methods for Genomic, Proteomic, and Next Generation Sequencing Data for Medical Research

In a pioneering and highly cited research article (*PNAS* 2000), I demonstrated the importance of replication in microarray studies. I proposed statistical models and methods for microarray data analysis. I also formulated methodology for assessing sample size and power for microarray studies so researchers can more effectively plan these kinds of investigations (*Statistics in Medicine* 2002). The article was the first to provide power and sample size tables for microarray studies, with more extensive tables appearing in the following book. In 2004, I published a single-authored book, titled "*Analysis on Microarray Gene Expression Data*", which has been widely used as a reference/textbook. Computer program for sample size and power calculations are freely accessible on my research website at the link http://sph.umd.edu/epib/faculty/mltlee/

I developed stochastic models for analyzing proteomic MS data as well probability models for protein identification. I have also been working on improved methods for analyzing RNA sequencing data.

(b) Threshold Regression Models for Risk Assessments: with Applications in Cancer Epidemiology, Environmental Research, Occupational Exposure, and Cancer Clinical Trials.

Many time-to-event data may be interpreted as first-hitting-time of a threshold state by sample paths of a stochastic process, which may be latent or observable. I have applied this model to processes for biological health events, such as epileptic seizures (*Biometrics* 1997, with Hougaard, Whitmore); jointly modeled CD4 counts as surrogate marker for latent disease progression using AIDS clinical trials data (*JRSS*B, 2000, with Schoenfeld, DeGruttola); and applied this methodology in environmental research involving lung cancer risks related to occupational exposure to diesel exhaust by railroad worker (*Environmetrics*, 2004, with Whitmore, et al.). An invited review article on this topic appeared in *Statistical Science* (2006). Recent results on this topic have appeared in *Journal of Biopharmaceutical Statistics* (2008) on assessing treatment efficacy in a multiple myeloma clinical trial, *Statistics in Medicine* (2009), *Biostatistics* (2010), *Lifetime Data Analysis* (2010), *Statistics in Medicine* (2010), *Biometrics* (2012), and *Stata Journal* (2012). Computer program codes for this model in R, STATA and SAS are freely available on my research website.

(c) Rank-based Nonparametric Tests for Correlated Data: with Applications in Epidemiology and Genomics

Collaborating with Drs. Bernard Rosner and Robert Glynn, we extended rank-based non-parametric methods to clustered dependent data. Important applications include analyzing correlated ROC curves *(JRSS, series C,* 2001*)*, generalized Wilcoxon tests (*Biometrics* 2003)*,* generalized signed-rank tests (*Biometrics* 2006a), and generalized rank sum tests with group membership defined at the subunit level (*Biometrics*, 2006b). These extensions of rank based tests to include repeated measures or longitudinal data can be widely used in many practical situations encountered in medical research. Using permutation methods, I applied the generalized rank methods to replicated microarray data (*Statistical Applications in Genetics and Molecular Biology,* 2005). Also, I published rigorous derivations of asymptotic properties for generalized U-statistics for two-sample clustered data *(*invited article published in *Statistica Neerlandica*, 2006).

(d) Lifetime Data Analysis

I am the founding Editor and Editor-in-Chief of the international journal "*Lifetime Data Analysis*". As the only statistical journal that is specialized in modeling time-to-event data (including survival time, length-of-hospital stay, quality of life, etc.), it has been well received internationally. The journal is currently publishing its eighteenth volume by Springer.

(e) Statistical Applications in Microbiology and Pharmacokinetics

I developed methods for meta-analyses of clinical trials data on drug safety by pooling together all available individual and comparative trials (*Drug Informational Journal* 1997). Collaborating with the Clinical Microbiology Group at Harvard Medical School, I developed methods for modeling microbial colonization of the human body in health and disease and we published a series of articles. I developed nonlinear statistical models for investigating the action of antibiotics on bacteria and their toxins. The models also provide a tool for comparing the efficacy and kill kinetics of different antibiotics (*Journal of Biopharmaceutical Statistics,* 1999). Based on my experience with laboratory data, I developed new statistical methods for analyzing serial dilution assay data (*Biometrics* 1999). Also I worked on the design and analysis of a study to identify key microbial populations as risk factors for pre-term delivery (*Journal of Clinical Microbiology*, 2003).

(f) Multivariate Distributional Theory and Applications

I investigated dependence properties for multivariate distributions (*Annals of Probability* 1985a, 1985b, and 1990). I considered different family of multivariate distributions (*Technometrics* 1991; *Communications in Statistics, Theory and Methods*, 1996 and 2004). I generalized the Sarmonov distributions and provided useful methods to generate multivariate distributions with given marginal distributions. This family of distributions has proven to be useful in statistical applications (See Cole et al, *JASA* 1995; and Danaher and Hardie, *the American Statistician* 2005). Recently, researchers have applied this family of distributions in econometric research as well as in genetic research. The generalized Sarmonov family of distributions is now featured in the second edition of the well-known book titled *Continuous Multivariate Distribution* by Kotz, Balakrishnan, and Johnson (2000).

B. RESEARCH FUNDING INFORMATION:

1992--1993	Source: North Atlantic Treaty Organization (NATO #920475) Title: *Collaborative Research Grant* Role: Co- Investigator
1992–2003	Source: Smith-Kline Beecham Title: *In vitro model for human vaginal microflora during health and disease* Role: Biostatistician
1993--1999	Source: NIH/NEI (EY08103) Title: *Statistical methods for ophthalmologic and cluster data* Role: Biostatistician
1992--1997	Source: NIH/NIAID (AI25152) Title: *Prevention of Group B streptococcal infections in neonatals and infants* Role: Biostatistician
1993--1997	Source: AHCPR Title: *Study of patient outcomes associated with pharmaceutical therapy* Role: Biostatistician
1994--1997	Source: Social Sciences and Humanities Research Council of Canada Title: *Collaborative research in statistics (SSHRC#410-94-0792)* Role: Biostatistician
1996--1997	Source: Bristol-Myers Squibb Company Title: *Meta analysis of clinical trials for drug safety data* Role: Principal Investigator
1996--1997	Source: Bristol-Myers Squibb Company Title: *Meta analysis of the incidence of atypical pathogens* Role: Principal Investigator
1996--1999	Source: NIH/NHBLI (HL40619, PI: Rosner) Title: *Analysis of longitudinal cardiopulmonary data* Role: Co- Investigator
1998– 2000	Source: NIH/NIGMS (GM55326) Title: *Statistical methods for genetic case control studies* Role: Biostatistician
1997--2001	Source: NIH/NIEHS (ES05257) Title: *Lead biomarkers, aging and chronic diseases* Role: Biostatistician
1999--2000	Source: NIH/NHLBI (HL64273-01) Title: *Adherence to anti-hypertensive therapy: data analysis* Role: Statistician
1999	Source: Veteran's Administration MAVRFP(1-99-01) Title: *Surrogate endpoints for coronary heart disease* Role: Principal Investigator

1999-2002 Source: NIH (CA79725-03)
Title: *Lung Cancer and Diesel Exhaust Exposure*
Role: Biostatistician

1999-2005 Source: NIH (01-AGI2531-06)
Title: *The Study of Women's Health Across the Nation*
Role: Biostatistician

1999-2005 Source: NIH/NICHD (HD35667)
Title: *Quantitative microbiologic model for pre-term delivery*
Role: Co- Investigator

1999-2010 Source: NIH/NEI (EY12269-04, PI: Rosner)
Title: *Statistical Methods for Ophthalmologic and Cluster Data*
Role: Co-investigator

2000-2005 Source: NIH/NCI (CA06516-38)
Title: *Data Farber/Harvard Cancer Center Support Grant*
Role: Biostatistician

2001-2004 Source: NIH/NCI (R03 CA89756, PI : Lee)
Title: *Analysis of Microarray Gene Expression of Tumors*
Role: Principal Investigator

2002-2007 Source: NHGRI (R01 HG02510, PI: Lee)
Title: *Power and Sample Size for Microarray Studies*
Role: Principal Investigator

2002-2005 Source: NIH/NIDDK (DK-63665, PI: Liu)
Title: *Proteomics Approaches to Benigh Prostatic Hyperplasia*
Role: Co-Investigator

2002-2005 Source: NIH/NHBLI (HL-723358)
Title: *Shared Microarray Facility*
Role: Co-Investigator

2004-2008 Source: NIH/NHBLI (HL-040619, PI: Rosner)
Title: *Analysis of Longitudinal CVD and Cancer Data*
Role: Co-investigator

2004-2005 Source: NIH/NCI (R13 CA109778, PI : Lee)
Title: *International Conference on Analysis of Genomic Data*
Role: Principal Investigator

2006-2008 Source: NIDDK (1R01DA022199, PI: Sadee)
Title: *Genetic and Epigenetic Regulation of Addiction Genes*
Role: Co-investigator

2006-2011 Source: NIOSH/CDC (R01OH008649, PI: Lee)
Title: *Threshold Regression Methodology for Cancer Risk Assessment*
Role: Principal Investigator

2007-2009 Source: NIH/NEI (2R01EY012269-07A1, PI: Rosner)
Title: *Statistical methods for ophthalmologic and cluster data*
Role: Subcontract PI

2008-2009 Source: NIAID/NIH (T1R21AI074399-01A2, PI: Wang)
Title: Pharmacogenetics of sulfamethoxazole in HIV/AIDS patients
Role: Co-investigator

2008-2009 University of Maryland College Park and Baltimore Campuses Seed Grant
Role: co-Principal Investigator, with Onukwugha

2008-2011 Source: NCI/NIH (1R21CA125909-01A2 (PI: Vodovotz)
Title: Soy Almond Bread as Complimentary Therapy for Prostate Cancer
Role: Subcontract PI

2010-2012 *Relationship Disruption During Incarceration & HIV Risk in African American Men* (PI: Khan)
Role: Statistician

2011-2012 Source: Science Applications International Corporation (SAIC), Frederick, MD
Title*: Statistical Consulting for Identifying Non-B Sequence Motifs in Genomic Data*
Role: Subcontract PI (SAIC is a contractor of NCI Frederick).

2012-2014 Maryland's Department of Health and Mental Hygiene at Baltimore
Title: *Analysis of Campy infection in Food Net Data*, (PI: Amy Sapkoda)

2012-2016 Source: University of Maryland at Baltimore, CDC's Community Transformation Grant to Maryland's Department of Health and Mental Hygiene, (UMPC subcontract PI: Lee, M.-L.T.)
Title:Operational and Technical Support Provided by the Institute for a Healthiest Maryland

2012-2013 Department of Health at Cecil County, Maryland

Title: *Analysis of Middle School and High School Survey* (PI: Lee, M.-L.T.)

2012-2013 Department of Health, Washington DC, (PI: Lee, M.-L.T.)
Title: Technical Assistance on Regional Data Analysis.

2012-2014 Maryland's Department of Health and Mental Hygiene at Baltimore
Title: *Role of Product-Specific Bacterial Communities in TSNA Formation* (PI: Amy Sapkoda)

C. REPORT OF TEACHING:

1. Local Contribution

a. Boston University

1984,86,88 Graduate Course Title: *Estimation Theory*
Role: Lecturer and examination writer
6-10 Graduate Students, 80 hours/year preparation and contact

1985,87,89 Graduate Course Title: *Hypothesis Testing*
Role: Lecturer and examination writer
6-10 Graduate Students, 80 hours/year preparation and contact

1984,89,91 Graduate Course Title: *Nonparametric Statistics*
Role: Lecturer and examination writer
5-12 Graduate Students, 80 hours/year preparation and contact

1985--1991 Undergraduate Course Title: *Applied Statistics and Probability*
Role: Lecturer and examination writer
80-99 Undergraduate Students, 70 hours/year preparation and contact

1985,86,88,90 Graduate Course Title: *Survival Analysis*
Role: Course developer, lecturer and examination writer
5-10 Graduate Students, 80 hours/year preparation and contact

1985 Graduate Course Title: *Reliability Methods*
Role: Course Developer, lecturer and examination writer
14 Graduate Students, 80 hours preparation and contact

1990 Graduate Course Title: *Quality Contro*l
Role: Course developer, lecturer and examination writer
7 Graduate Students, 80 hours preparation and contact

b. Harvard University (Harvard School of Public Health)

1997 HSPH Biostatistics Course: Generalized Linear Models
Role: Lecturer and examination writer
4 Graduate Students, 100 hours preparation and contact

1998 HSPH Tutorial Course: Nonlinear Models
Role: Instructor, 1 Graduate Student, 1 hour/week

1998 HSPH Tutorial Course: Mixed Effect Models
Role: Instructor, 1 Graduate Student, 1 hour/week

1998 HSPH Tutorial Course: Marker Models and Surrogate Endpoints
Role: Instructor, 1 Graduate Student, 1 hour/week

1998 HSPH Tutorial Course: Inverse Gaussian Distributions & Processes
Role: Instructor
1 Graduate Student, 1 hour/week

1999 Harvard-MIT Division of Health Sciences & Technology
Course: Statistical Analysis of Biomedical Investigation
Role: Co-Instructor
40 Students, 30 hours preparation and contact (one month course)

1999 HSPH Independent Study: Marker Processes
Role: Instructor, 1 Graduate Student, 1 hour/week

1999 HSPH Tutorial Course: Survey Sampling Methods
Role: Instructor, 1 Graduate Student, 1 hour/week

2000 Harvard-MIT Division of Health Sciences & Technology
Course: Statistical Analysis of Biomedical Investigation
Role: Co-Instructor, 40 Students, 30 hours preparation and contact

c. The Ohio State University

2006-2007 PH-BIO702: Design & Analysis of Studies in the Health Sciences II
Role: Instructor, 43 Students in 2006, 82 students in 2007

2008 PH-BIO701: Design & Analysis of Studies in the Health Sciences I
Role: Instructor, 20 Students in 2008

d. University of Maryland at College Park

2009 EPIB653: Applied Survival Analysis
Role: Instructor, 4 students
2010 EPIB653: Applied Survival Analysis
Role: Instructor, 7 students
2011 EPIB653: Applied Survival Analysis
Role: Instructor, 7 students
2012 EPIB788: Critical Readings
Role: Instructor, 4 students

e. Graduate Students and Postdoctoral Fellows Mentored

Boston University:

Bernard Cole, PhD., 1992 (Served as a member in dissertation committee)
Dr. Cole's Current position: Interim Dean, College of Engineering and Mathematical Sciences, and Professor of Statistics, University of Vermont

Lisa Sullivan, Ph.D. 1991(Served as a member in dissertation committee)
Dr. Sullivan's Current position: Chairperson, Biostatistics Dept, Boston University

Kim Dukes, Ph.D., (Served as teacher in several courses)
Dr. Dukes' Current position: President and CEO of DM-STAT, Inc.

Harvard University: (Served as a member in dissertation committees)

1995–1999 Dept of Environmental Health, Harvard School of Public Health
Hung-Yi Chuang, Ph.D. 1999
Dr. Chuang's Current position:
Director, School of Public Health, Kohsiung Medical University Hospital, Taiwan

Tsai Sharon, PhD 1999,
Dr. Tsai's current position: Research Fellow, Cold Spring Harbor Laboratory

1997–2003 Master Student Thesis Advisor, Biostatistics Department, Harvard University
Maria Shubina, MS 2003
Department of Biostatistics, Harvard School of Public Health

2003-2004 Mentoring Postdoctoral Research Fellow:
Dr. Hui Xie (2003-04), at Harvard Medical School
Recent position: Assistant Professor, University of Chicago

2004-2005 Mentoring Postdoctoral Research Fellow, Harvard Medical School
Dr. Weiliang Qiu (2004-05) at Harvard Medical School
Dr. Qiu's current position: Instructor, Harvard Medical School

2001-2005 Thesis Advisor for Doctoral Candidate, Biostatistics Department, Harvard University
Maria Shubina, Harvard School of Public Health (ScD 2005)
Dr. Subina's Current Position: Biostatistician, Brigham and Women's Hospital, Boston

The Ohio State University

2005-2008 Master Thesis Advisor for the following students at the Ohio State University
Nidhi Kochar (2007)
Hannah Seoh (2008);
Tao Xiao (2008)
Yi Guo (2009)

2005-2008 Member of Doctoral Thesis Committee for the following students
Shuyan Wan (Statistics Department, PhD 2007)
Antara Datta, (Veterinary Biology Department, 2007)
Kevin Tordorff (Biostatistics, PhD 2008)
Erin Hade (Biostatistics, PhD candidate)
Parul Gulati (Biostatistics, PhD candidate)
Tao Xiao (Biostatistics, PhD candidate)

University of Maryland at College Park

2008-Present Primary Advisor for the following MPH students

Xue Han (Epidemiology and Biostatistics)
Man Huang (Epidemiology and Biostatistics)
William Carter (Epidemiology and Biostatistics)
Geokyan Loo (Epidemiology and Biostatistics)

Member of Doctoral Thesis Committee for the following students
Julia Batishev (Applied Mathematics and Statistics)
Vasilis Sotiris (Applied Mathematics and Statistics, 2008-2011)
Jiraphan Suntornchost (Applied Mathematics and Statistics)
Poorani Subramanian (Applied Mathematics and Statistics)
Jing Li (Applied Mathematics and Statistics)
Magaly Toro Ibaceta (Food Science Program, College of Agriculture)
Sue Lin (Epidemiology and Biostatistics)

2. Regional, National and International Contributions

a. Invited Presentations

1983 Statistics Colloquium, University of Connecticut, Storrs, Connecticut
1984 Statistics Seminar, University of Pittsburgh, Pittsburgh, Pennsylvania
1985 Statistics Seminar, University of Pittsburgh, Pittsburgh, Pennsylvania
1985 Seminar, Institute of Statistical Sciences, Academia Sinica, Taipei, TAIWAN
1986 Stochastic Seminar, Massachusetts Institute of Technology, Boston
1987 Reliability Conference, University of Missouri, Missouri
1987 Symposium on Dependence in Statistics & Probability, Somerset, Pennsylvania
1987 Seminar, Institute of Statistical Sciences, Academia Sinica, Taipei, TAIWAN
1989 Statistics Colloquium, Harvard University, Cambridge, Massachusetts
1989 Statistics Day, National Tsing-Hua University, TAIWAN
1990 Statistics Seminar, University of Massachusetts, Amherst, Massachusetts
1991 Dinner Meeting, American Statistical Association, Boston Chapter
1991 Technical Review Committee Meeting on Statistical Issues in Clinical Trials, National Institute of Drug Abuse, Bethesda, Maryland
1991 International Research Conference on Reliability, Columbia, Missouri
1991 AMS-IMS-SIAM Conference on Stochastic Inequality, Seattle, Washington
1992 McGill University, Research Seminar, Montreal, CANADA
1993 Statistics Seminar, University of Surrey, Surrey, UNITED KINGDOM.
1993 Veteran's Outpatient Clinic, Boston
1993 Epidemiology Seminar, Harvard School of Public Health
1993 Annual Meeting, Society for Microbial Ecology and Disease, Boston
1993 ICSA Joint Statistical Conference, Taipei, TAIWAN
1993 Institute of Statistical Mathematics, Tokyo, JAPAN
1994 Biostatistics Colloquium, Columbia University, New York
1995 INFORMS Conference, Georgia Inst. of Technology, Atlanta, Georgia
1996 Colloquium, Brown University, Providence, Rhode Island
1997 Mathematics Colloquium, University of Houston, Houston, Texas
1997 Statistics Conference, Tung-Hua University, TAIWAN
1998 Statistics Symposium, University of Pittsburgh, Pittsburgh, Pennsylvania
1998 Statistics Colloquium, Columbia University, New York
1998 Epidemiology Seminar, Harvard School of Public Health, Boston
1999 Statistics Seminar, University of British Columbia, Vancouver, CANADA
1999 Design and Analysis of Infectious Disease Studies, Oberwolfach, GERMANY
2000 Seminar, Massachusetts Veterans Administration Epidemiology and Information Center
2000 Statistics Seminars, University of Compiegene and University of Paris V, Paris, FRANCE
2000 Biostatistics Seminar, University of Michigan, Ann Arbor, Michigan
2000 International Workshop on Goodness-of-fit Tests, Paris, FRANCE
2000 Conference on Mathematical Models in Reliability, Bordeaux, FRANCE
2000 International workshop on Statistical Design, Measurements and Analysis of Health Related Quality of Life, Aradon, FRANCE
2000 Workshop on Expression Arrays, Genetic Networks and Diseases, Institute of Pure and Applied Mathematics (IPAM) at University of California at Los Angeles, California
2001 Seminar at the Biostatistics Division, National Cancer Institute, Bethesda, Maryland
2001 Statistics Seminar, Worcester Polytechnic Institute, Worcester, Massachusetts
2001 Seminar, National Health Research Institute, Taipei, TAIWAN
2001 AMS-IMS-SIAM Conference on Statistics in Functional Genomics, Hadley, Massachusetts

2001 Conference on Stochastic Methods and Applications, Compiègne, FRANCE
2001 Whitehead Institute, Massachusetts Institute of Technology, Cambridge, Massachusetts
2002 Seminar on Analysis of Microarray Data, National Taiwan University, Taipei, TAIWAN
2002 Taipei International Statistical Symposium, Taipei, TAIWAN
2002 Workshop on high-dimensional data, Leiden University, Leiden, The NETHERLANDS
2002 Conference on Environment and Health Related Quality of Life, Tohannic, FRANCE
2003 Workshop on Semi-parametric Methods, Mont Saint Michel, FRANCE
2004 Statistical Methods in Microarray Analysis, National University of Singapore, SINGAPORE
2004 Statistics Seminar, Columbia University, New York, New York
2004 Seminar in the Biostatistics Department, University of Pittsburgh, Pennsylvania
2004 International Conference on Statistics in Health Sciences, Nantes, FRANCE
2005 International Chinese Statistical Association Conference, SINGAPORE
2004 Seminar, Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts
2004 Tutorial Course, Symposium on Statistical Genetics, Taipei, Taiwan
2005 Bioinformatics Seminar Series, Harvard School of Public Health
2005 Semi-parametric Methods in Survival, National University of Singapore, SINGAPORE
2005 Applied Stochastic Models and Data Analysis, Brest, FRANCE
2005 Joint meetings of CSPS and IMS, Beijing, CHINA
2005 Statistical Analysis of Complex Event History Data, Oslo, NORWAY
2005 Biostatistical Modeling of Postgenomic Data, Toulon, FRANCE
2005 Workshop on Survival Analysis in Health Sciences, Bordeaux, FRANCE
2005 **Plenary Speaker**, **International Conference on Statistics in the Technological Age, MALAYSIA**
2006 Statistics Department, University of Texas at El Paso, Texas
2006 The Signature Program at Veterinary Medicine, Ohio State University, Columbus, OH, USA
2006 Plenary Speaker, International Conference on Accelerated Life Testing, Angers, FRANCE
2006 National Technical University of Athens, Athens, GREECE
2006 International Conference for Biomedical and Technical Systems, Limassal, CYPRUS
2006 European Meeting of Statisticians, Torun, POLAND
2006 American Statistical Association 2006 Joint Statistical Meetings, Seattle, USA
2006 Conference on Latent Variable Models in Health Sciences, Perugia, ITALY
2006 Statistics Seminar, National Tsing-Hua University, Hsing-Chu, TAIWAN
2007 Mathematics Colloquium, Université René Descartes, Paris, FRANCE
2007 Séminaire, INSERM, Paris, FRANCE
2007 Biostatistics Seminar, Columbia University, New York, USA
2007 Statistics Seminar, University of Illinois, Urbana Champaign, USA
2007 Biostatistics Seminar, University of California, Los Angeles, CA, USA
2007 Conference on Cancer Risk Assessment, Santorini, GREECE
2007 Applied Stochastic Models and Data Analysis, Crete, GREECE
2007 Statistics Seminar, University of Illinois, Urbana Champaign, USA.
2007 Mathematical Models in Reliability, Glasgow, U.K.
2007 Microarray Workshop, Technical University of Catalonia, Barcelona, SPAIN
2007 American Statistical Association 2007Joint Statistical Meetings, Salt Lake City, USA
2007 Biostatistics Seminar, University of Iowa, Iowa City, Iowa, USA
2007 Biostatistics Seminar, Medical University of Wisconsin, Milwaukee, WI. USA
2007 Séminaire Européen, Université Pierre et Marie Curie, Paris, FRANCE
2008 Biostatistics Workshop, Stanford University, Stanford, California, USA
2008 Workshop on Microarray Data Analysis, ICSA Symposium, New Jersey, USA
2008 Applied Stochastic Models and Data Analysis Conference, Compiegne, FRANCE
2008 International Symposium on Biopharmaceutical Statistics, Shanghai, CHINA
2008 MC-GARD Conferences in Genomic, Braga, PORTUGAL
2008 Séminaire Européen, Université René Descartes, Paris, FRANCE
2008 Seminar, Dept of Biostatistics, Johns Hopkins University, Baltimore, MD
2009 Seminar, Cancer Center at the City of Hope, Los Angeles, CA
2009 Biostatistics Seminar, Food and Drug Administration, CDER, White Oakes, MD
2009 Biostatistics Seminar, NIH/NCI Division of Cancer Epidemiology and Genetics, Rockville, MD
2009 Seminar on Microarray Analysis, Cancer Center, Johns Hopkins University, Baltimore, MD
2009 Western North American Region Biometric Meeting, Portland, Oregon
2009 Mathematical Models in Reliability, Moscow, RUSSIA
2009 Workshop on Simulations, Saint Petersburg, RUSSIA
2009 Statistical Conference, National Taiwan University, Taipei, TAIWAN
2009 Statistical Seminar, Simon Fraser University, Vancouver, CANADA

2010 WNAR 2010 Conference, University of Washington, Seattle
2010 Statistical Conference, Academia Sinica, Taipei, TAIWAN
2010 Séminaire Européen,Université Pierre et Marie Curie, Paris, FRANCE
2010 Distinguished Speakers Series: Residue Chemistry & Predictive Microbiology Research Unit, US Department of Agriculture
2011 Biostatistics Seminar, Fred Hutchinson Cancer Research Center, Seattle
2011 **Plenary Speaker**, **Mathematical Models in Reliability, Beijing, CHINA**
2011 Statistical Conference, Academia Sinica, Taipei, TAIWAN
2012 Statistical Seminar, National Cheng Kung University, Tainan, TAIWAN
2012 **Plenary Speaker**, **Statistical Models for Reliability and Survival Analysis, Bordeaux, FRANCE**
2012 Statistical Conference, Hong Kong Polytechnic University, HONG KONG

b. Professional Leadership Roles Related to Research

1994 Principal Conference Organizer, International Conference on *Survival Analysis and Reliability*, Harvard University, Cambridge, Massachusetts, USA
1995 Organizer, Section on Lifetime Models, International Statistical Institute, Beijing, CHINA
1996 Chair, Session on Lifetime Data Analysis, International Biometric Conference Amsterdam, the NETHERLANDS
1997 Organizer, Invited Section on "Lifetime Data Analysis" International Biometric Society Spring Meeting (ENAR), Memphis, Tennessee, USA
1997 Chair of all Contributed Papers Sessions Institute of Mathematics Statistics, Regional Meeting, Taipei, TAIWAN
1997 Chair, Special Invited Paper Session, Mathematical Statistics and Its Applications to Biosciences, Rostock, GERMANY
1998 Organizer, Invited Section on "The Impact of Patient Compliance", ASA/JSM, Dallas, Texas, USA
1998 Chair, Section on Applied Statistics, ICSA Statistical Conference, Kunming, CHINA
1999 Organizer, Section on Applied Statistics, ICSA Applied Statistical Symposium, D.C., USA
2000 Scientific Committee, International Conference on Mathematical Models in Reliability (MMR2000), Bordeaux, FRANCE
2001 Scientific Committee, International workshop on Statistical Design, Measurements and Analysis of Health Related Quality of Life, Aradon, FRANCE
2001 Scientific Committee, International Conference on Applied Stochastic Models and Data Analysis (ASMDA2001), Compiegne, FRANCE
2002 Scientific Committee, Mathematical Models in Reliability (MMR2002), Trondheim, NORWAY
2001 Scientific Committee, International Conference on Environment and Health Related Quality of Life, Tohannic, FRANCE
2002 Program Committee, Workshop on Semi-parametric Methods, Mont Saint Michel, FRANCE
2003 Program Committee, Workshop on Probability, Statistics, and Modeling in Public Health Bordeaux, FRANCE
2004 Scientific Committee, International Conference on Mathematical Models in Reliability, (MMR2004) Santa Fe, New Mexico, USA
2003 Scientific Committee, International Conference on Statistics in Health Sciences, Nantes, FRANCE
2004 Program Committee, Degradation Models in Reliability and Public Health, St. Petersburg, RUSSIA
2004 Principal Conference Organizer and Chair, International Conference on *Analysis of Genomic Data*, Harvard Medical School, Boston, MA USA (co-sponsored by NIH)
2004 Program Committee, Applied Stochastic Models and Data Analysis, Brest, FRANCE
2005 Program Committee, Conference on Simulations, St. Petersburg, RUSSIA
2006 Program Committee, European Seminar, Limassol, CYPRUS
2006 Chair, Invited session on Survival Analysis, International Biometric Conference, Montreal, CANADA
2006 Co-organizer, Conference on Latent Variable Models in Health Sciences, Perugia, ITALY
2007 Program Committee, Applied Stochastic Models and Data Analysis, Crete, GREECE
2007 Program Committee, Mathematical Models of Reliability (MMR2007), Glasgow, UK
2007 Program Committee, Conference on Cancer Risk Assessment, Santorini, GREECE
2008 Program Committee, International Workshop on Applied Probability, Compiègne, FRANCE
2008 Advisory Committee, International Symposium on Biopharmaceutical Statistics, Shanghai, CHINA
2009 Program Committee, Mathematical Models of Reliability (MMR2009), Moscow, RUSSIA
2009 Program Committee, Workshop on Simulations, Saint Petersburg, RUSSIA
2009 Program Committee, Conference on Cancer Risk Assessment, GREECE
2009 Program Committee, Applied Stochastic Models and Data Analysis, Vilnius, LITHUANIA
2009 Program Committee, Frontiers of Interface between Statistics and Sciences, Hyderabad, INDIA
2011 Program Committee, Conference on Cancer Risk Assessment, CYPRUS

2011 Program Committee, Applied Stochastic Models and Data Analysis, Roma, ITALY
2011 Program Committee, Mathematical Models of Reliability (MMR2011), Beijing, CHINA
2011 Principal Conference Organizer and Chair, *Risk Assessment and Evaluation of Predictions,* Crowne Plaza Hotel, Silver Spring, Maryland

Part III: BIBLIOGRAPHY (Formerly Ting, M-L)

(a) Books and Monographs

1. Jewell NP, Kimber AC, **LEE M-LT**, Whitmore GA , editors, *Lifetime Data: Models in Reliability and Survival Analysis*, 1995. Kluwer Academic Publishers (Springer), Dordrecht, the Netherlands.

2. Mesbah M, Cole BF, **LEE M-LT**, editors, *Measurements and Statistical Analysis for Quality of Life Data*, Klluwer Academic Publishers, (2002). Kluwer Academic Publishers (Springer), Dordrecht, the Netherlands.

3. **LEE M-LT**. *Analysis of Microarray Gene Expression Data,* (2004), Springer, New York (formerly published by Kluwer Academic Publishers, Kluwer Academic Publishers was merged with Springer in 2005).

(b) Original Articles (reports of original investigations published in peer-reviewed journals)

1. Wang HC, **Ting M-L**. Homogeneous Banach spaces of locally integrable functions. *Nanta Mathematica* 1979; 12:62-70.

2. Block HW, **Ting M-L**. Some concepts of multivariate dependence. *Comm Stat Theory Methods* 1981; A10(8):749-62.

3. **LEE M-LT**. Dependence by total positivity. *Annals of Probability* 1985; 13:572-82.

4. **LEE M-LT**. Dependence by reverse regular rule. *Annals of Probability* 1985; 13:583-91.

5. **LEE M-LT**. Some cross-product difference statistics and a test for trends in ordered contingency tables. *Statistics and Probability Letters* 1988; 7:41-46.

6. **LEE M-LT**, Gross AJ. Properties of conditionally independent generalized gamma distributions. *Probability in the Engineering and Informational Sciences* 1989; 3:289-97.

7. **LEE M-LT**. A moment test to identify uniformity. *Comm Stat Simul Comput* 1989; 18 Part B:253-61.

8. D'Agostino RB, **LEE M-LT**, Belanger AJ, Cupples LA, Anderson K, Kannel WB. Relation of pooled logistic regression to time-dependent Cox regression analysis: the Framingham Heart Study. *Statistics in Medicine* 1990; 9:1501-15.

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11. **LEE M-LT**, Gross AJ. Lifetime distributions under unknown environments. *Journal of Statistical Planning and Inferences 1991; 29:137-43.*

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19. **LEE M-LT**, Ross RA, Delaney ML, Onderdonk AB. Mathematical modelling of the vaginal microflora. *Microecology and Therapy* 1995; 23:18-21.

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