

# Biostatistics

## **Josée Dupuis**

Professor and Interim Chair.

*PhD, MS Stanford University.*

Areas of interest: statistical genetics, gene x environment interaction, analysis of correlated data.

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## **Alexa S. Beiser**

Professor. Also, Professor of Neurology, Boston University School of Medicine

*PhD, Boston University; MA, UC San Diego.*

Areas of interest: survival analysis, risk prediction, neurological outcomes, statistical data management

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## **Howard J. Cabral**

Professor and Co-Director of the Biostatistics Program.

*PhD, MPH, Boston University.*

Areas of interest: analysis of longitudinal data, analysis of ordinal data, clinical trials, statistical computing, effects of missing data on estimation, and ethics in statistical practice.

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## **Debbie Cheng**

Professor.

*ScD, Harvard University.*

Areas of interest: design and analysis of clinical trials, longitudinal data analysis, alcohol, substance use, and HIV/AIDS research.

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## **L. Adrienne Cupples**

Professor and Co-Executive Director of Biostatistics Program. Also, Professor of Epidemiology.

*PhD, MA, Boston University.*

Areas of interest: statistical methods for observational studies, survival analysis, and genetic epidemiology.

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## **Serkalem Demissie**

Associate Professor and Co-Director of Biostatistics Program.

*PhD, MPH, Boston University.*

Areas of interest: Statistical genetics; statistical computing; epidemiology; general applied statistical methods (including methods for survival, correlated, and multivariate data); factor and principal component analysis; methodological issues concerning heritability and genetic correlation (pleiotropic

effect), genome wide association study or GWAS, meta-analysis, and multiple testing; modeling and clustering temporal data for gene expression experimental study

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### **Anita L. DeStefano**

Professor. Also, Professor of Neurology, Boston University School of Medicine, and Associate Director of the Boston University Medical Center Genome Science Institute

*PhD, Cornell University; MS, Virginia Polytechnic Institute and State University.*

Areas of interest: biostatistics and statistical genetics

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### **Gheorghe Doros**

Associate Professor and Co-Director of Biostatistics Program. Also, Director of Biostatistics Consulting Group.

*PhD, MA, Yale University; MS, University of Bucharest, Romania.*

Areas of interest: censored data, data analysis, survival analysis, asymptotics, nonparametric estimation, and clinical trials.

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### **Susan S. Fish**

Professor.

*PharmD, University of Minnesota; MPH, Boston University.*

Areas of interest: clinical trials, human subjects research, research ethics, study designs

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### **David R. Gagnon**

Research Professor. Senior Biostatistician, Massachusetts Veterans Epidemiology Research and Information Center (MAVERIC).

*PhD, MPH, Boston University; MD, Tufts University.*

Areas of interest: statistical computing, longitudinal data analysis, pharmacoepidemiology, survival analysis, categorical data analysis, phenotyping, machine learning, classification, validation studies, natural language processing, Bayesian analysis, and MCMC methods.

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### **Timothy C. Heeren**

Professor. Also, Professor of Epidemiology. Director of Biostatistics Master in Public Health Program.

*PhD, Boston University.*

Areas of interest: biostatistics and analysis of scaled data.

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### **Helen E. Jenkins**

Assistant Professor.

*PhD, Imperial College, London; MSc London School of Hygiene & Tropical Medicine*

Areas of interest: infectious diseases, analysis of spatial data.

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### **Martin G. Larson**

Research Professor.

*SD, Harvard University;*

Areas of interest: analysis of ‘omics’ and longitudinal data, statistical genetics, missing data.

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### **Michael LaValley**

Professor.

*PhD, Pennsylvania State University; MS, Ohio State University.*

Areas of interest: meta-analysis, analysis of longitudinal and correlated data, analysis of survival data, analysis of ordinal and count data, predictive modeling, and arthritis research.

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### **Ching-Ti Liu**

Associate Professor.

*PhD, MS, University of California, Los Angeles.*

Areas of interest: the development of statistical/computational approaches for genetics/genomics and bioinformatics studies

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### **Kathryn Lunetta**

Professor.

*PhD, MS, University of Michigan.*

Areas of interest: Statistical genetics and genomics and genetic epidemiology. Specific fields of interest include reproductive health, healthy aging, and atrial fibrillation.

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### **Joseph Massaro**

Professor.

*PhD, MA, Boston University.*

Areas of interest: pharmaceutical and biologic randomized clinical trials, medical device randomized clinical trials, non-randomized clinical trials, propensity score matching and adjustment, clinical trials in rare diseases, adaptive designs in clinical trials, non-inferiority clinical trials, and risk prediction.

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### **Jacqueline Milton**

Clinical Assistant Professor

*PhD, Boston University*

Areas of interest: Statistical genetics and statistical education

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**Kerrie Nelson**

Research Associate Professor.

*PhD, MSc, University of Washington-Seattle.*

Areas of interest: modeling correlated data, statistical modeling for reliability, modeling longitudinal and clustered data, and diagnostic testing.

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**Gina M. Peloso**

Assistant Professor

*PhD, MA, Boston University.*

Areas of interest: statistical genetics, mapping of complex traits, and cardiovascular risk factors.

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**Sarah Rosner Preis**

Research Associate Professor.

*ScD, Harvard University; MPH, Emory University.*

Areas of interest: cardiovascular and nutritional epidemiology, and epidemiologic methods.

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**Paola Sebastiani**

Professor.

*PhD, University of Rome, Italy; MA, University College, London.*

Areas of interest: Bioinformatics, Bayesian modeling, statistical genetics, experimental design, machine learning, epidemic surveillance, network modeling and time series analysis.

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**Lisa M. Sullivan**

Professor, Associate Dean for Education, Associate Professor of Mathematics & Statistics, Boston University College of Arts & Sciences.

*PhD, MA, Boston University.*

Areas of interest: design and analysis of epidemiological studies, risk functions, clinical trials, statistical education

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**Fangui Sun**

Research Assistant Professor.

*PhD, Texas A&M University; MS, Southern Methodist University; MS, Nanjing University*

Areas of interest: survival analysis, case-control study, and longitudinal studies.

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### **Ludovic Trinquart**

Assistant Professor

*PhD, Universite Rene Descartes Paris; MPH, University of Paris*

Areas of interest: survival analysis, clinical trials, evidence synthesis (meta-analysis and network meta-analysis), and meta-research.

### **Yorghos Tripodis**

Research Associate Professor.

*PhD, MSc, London School of Economics; MPhil, University of Cambridge.*

Areas of interest: Longitudinal Studies, Correlated Data, Instrumental Variable Models, Time series modeling, and Measurement Error models.

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### **Janice M. Weinberg**

Professor.

Director, Master of Science in Clinical Investigation, Graduate Medical Sciences

*ScD, Harvard University; MS, University of North Carolina at Chapel Hill.*

Areas of interest: design and analysis of clinical trials, correlated data analysis, and statistical consulting.

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### **Laura F. White**

Associate Professor.

*PhD, SM, Harvard University.*

Area of interest: spatiotemporal analysis, statistical modeling of disease outbreaks, infectious disease epidemiology, tuberculosis, and public health surveillance.

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### **Qiong Yang**

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*PhD, MA, Columbia University.*

Areas of interest: biostatistics and statistical genetics.

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