Jeff Goldsmith
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Date of Preparation

April 4, 2017

Academic Appointments / Work Experience

06/2012–Present	**Department of Biostatistics** **Mailman School of Public Health, Columbia University** Assistant Professor
01/2009–12/2010	**Department of Biostatistics** **Bloomberg School of Public Health, Johns Hopkins University** Research Assistant (R01NS060910)
01/2008–12/2009	**Department of Biostatistics** **Bloomberg School of Public Health, Johns Hopkins University** Research Assistant (U19 AI060614 and U19 AI082637)

Education

08/2007–05/2012	Johns Hopkins University PhD in Biostatistics, May 2012 Thesis: Statistical Methods for Cross-sectional and Longitudinal Functional Observations Advisors: Ciprian Crainiceanu and Brian Caffo
08/2003–05/2007	Dickinson College BS in Mathematics, May 2007

Honors

01/2016	Public Voices Fellow
10/2013	Calderone Junior Faculty Prize
05/2012	ASA Biometrics Section Travel Award
12/2011	Invited Paper in "Highlights of JCGS" Session at Interface
05/2011	Margaret Merrell Award for Outstanding Research by a Biostatistics Doctoral Student
05/2011	School-wide Teaching Assistant Recognition Award
05/2011	Helen Abbey Award for Excellence in Teaching
03/2011	ENAR Distinguished Student Paper Award
05/2010	Jane and Steve Dykacz Award for Outstanding Paper in Medical Statistics
05/2009	Nominated for School-wide Teaching Assistant Recognition Award
08/2007–05/2012	Sommer Scholar
05/2007	James Fowler Rusling Prize
05/2007	Lance E. Kohlhaas Memorial Prize in Mathematics
05/2007	Phi Beta Kappa National Honor Society
05/2005	Pi Mu Epsilon Mathematics Honor Society
05/2004, 05/2005	Caroline Hatton Clark Mathematics Scholarship
08/2003–05/2007	John Dickinson Scholar
05/2002	National Merit Scholar

Professional Organizations, Societies, and Service

Grant Review Service

2016	NSF/NIH Initiative on Quantitative Approaches to Biomedical Big Data (QuBBD)

EDITORIAL SERVICE

02/2017–Present	Associate Editor, Biostatistics
12/2015–Present	Associate Editor, Journal of the American Statistical Association (Applications and Case Studies)
08/2012–03/2015	Consulting Editor in Statistics, Journal of Cardiovascular Pharmacology
Referee	Advances in Statistical Analysis, American Journal of Public Health, Annals of Applied Statistics, Australian & New Zealand Journal of Statistics, Bioinformatics, Biometrics, Biometrika, Biostatistics, Chemometrics, Chemometrics and Intelligent Laboratory Systems, Computational Statistics and Data Analysis, CRC Press (Book review), Econometrics and Statistics, Electronic Journal of Statistics, IEEE/AMC Transactions on Computational Biology and Bioinformatics, International Journal of Biostatistics, Journal of the American Statistical Association, Journal of Computational and Graphical Statistics, Journal of Multivariate Analysis, Journal of the Royal Statistical Society (Series A, B & C), Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of Science and Medicine in Sport, Pediatric Obesity, PLOS One, R Journal, Scandinavian Journal of Statistics, Statistica Sinica, Statistical Modeling, Statistics in Medicine, WIREs Computational Statistics.

MEMBERSHIPS AND POSITIONS

03/2017–03/2018	Associate Program Chair, ENAR 2018 Meeting
01/2017–Present	Regional Advisory Board (Member), ENAR
10/2010–Present	ENAR (Member)
08/2009–Present	ASA (Member)

Departmental and University Committees

09/2016–Present	Chair, Student Recruitment Committee, Department of Biostatistics
09/2016–Present	Member, Health Analytics Center Committee, Data Science Institute
08/2015–Present	Member, Curriculum Committee, Department of Biostatistics
10/2014–06/2015	Co-Director, Global Research Analytics for Population Health (GRAPH), Mailman School of Public Health
08/2014–Present	Member, Faculty Recruitment Advisory Committee, Department of Biostatistics
08/2014–09/2016	Member, Research Advisory Committee, Department of Biostatistics
08/2014–05/2015	Co-Organizer, Levin Lecture Series, Department of Biostatistics
12/2012–Present	Member, Doctoral Admissions Committee, Department of Biostatistics

Fellowship and Grant Support

PRESENT SUPPORT

07/2016–07/2021	R01 NS097423-01, NIH / NINDS (Goldsmith) Functional data analytics for kinematic assessments of motor control Principal Investigator $1,229,375 (DC)
09/2015–05/2019	R01 AG049970, NIH / NIA (Lovasi) Communities Designed to Support Cardiovascular Health for Older Adults Co-Investigator Year 1: $397,707
06/2015–06/2017	R21 EB018917, NIH / NIBIB (Goldsmith) Generalized, multilevel functional response models applied to accelerometer data Principal Investigator Total: $248,500 (DC)
09/2014–07/2019	R01 HL123407, NIH / NHLBI (Crainiceanu) Statistical methods for biosignals with varying domains Subcontract Principal Investigator Years 1 and 2: Prime $555,800, Subcontract $94,500
09/2010–04/2020	K24 AG036778, NIH / NIA (Maurer) Midcareer Mentoring Award for Patient Oriented Research In Geriatric Cardiology Co-Investigator Total Project: $291,775
11/1998–07/2019	P50 ES009600, NIH / NIEHS (Perera) The Columbia Center for Children's Environmental Health Co-Investigator Current Year: $723,269

PAST SUPPORT

09/2014–05/2016	R21 AG046703, NIH / NIA (Maurer) Can Ventricular Assist Devices Reverse the Frailty Phenotype Co-Investigator Years 1 and 2: $345,818
07/2014–07/2016	McDonnel Foundation (Kitago) Augmenting spontaneous recovery with robotic arm therapy and non-invasive brain stimulation Co-Investigator Total: $231,618
04/2012–04/2016	R01 NS078419, NIH / NINDS (Ottman) Psychosocial Impact of Genetics in Epilepsy Co-Investigator Total Project: $723,956

Teaching Experience and Responsibilities

SPECIFIC COURSES

Spring 2016	Linear Regression Models (43 enrolled students)
Spring 2015	Linear Regression Models (55 enrolled students)
Summer 2015	Applied Regression II (6 enrolled students)
Spring 2014	Categorical Data Analysis (15 enrolled students)
Spring 2014	Linear Regression Models (34 enrolled students)
Spring 2013	Categorical Data Analysis (16 enrolled students)
Spring 2013	Linear Regression Models (17 enrolled students)

GENERAL TEACHING ACTIVITIES

Spring 2017	International Workshop on Advances in Functional Data Analysis Short Course (Variable Selection in Functional Regression)
Summer 2016	Grant Mentor, Columbia Summer Research Institute
Summer 2014	Grant Mentor, Columbia Summer Research Institute
Summer 2014	Undergraduate Mentor, Columbia Summer Institute for Training in Biostatistics
Summer 2014	Undergraduate Mentor, Biostatistics Enrichment Summer Training Diversity Program
Spring 2014	ENAR Short Course (Functional Data Analysis: Techniques and Applications)
Summer 2013	Grant Mentor, Columbia Summer Research Institute
08/2013–Present	Biostatistics Faculty Liason, Columbia University Biostatistics and Epidemiology Digital Education (CUBED) Masters program
01/2013–Present	Co-founder and Director, Functional Data Analysis Working Group (FDAWG)

PHD ADVISEES

2018 (Expected)	Daniel Backenroth
2018 (Expected)	Jihui Lee
2016	Yakuan Chen (First employment: Senior Inventive Scientist at AT&T Labs)

MASTER'S ADVISEES

2016	Yuexia Mei (Theory and Methods)
2016	Hanwei Yue (Theory and Methods)
2015	Xinyue Liu (Theory and Methods)
2015	Xiaoqi Lu (Theory and Methods)
2015	Yao Ma (Theory and Methods)
2015	Tianyi Sun (Theory and Methods)
2015	Julia Wrobel (Theory and Methods)
2014	Xinyu Hu (Theory and Methods)
2014	Zhi Pan (Theory and Methods)
2014	Guangwei Qui (Theory and Methods)
2014	Wenxi Tang (Theory and Methods)
2014	Madeline Vossbrinck (Theory and Methods)

DOCTORAL EXAMINATION, ADVISORY, AND DEFENSE COMMITTEES

2017 (Expected)	Sharifa Barracks (DrPH; Oral examination)
2014	Tianle Chen (Dissertation Defense)
2014	Xiaochen Cai (Oral Examination and Dissertation Defense)
2013	Adam Ciarleglio (Dissertation Defense)

Publications

† *indicates equal contribution*
‡ *indicates graduate student under my supervision*

ORIGINAL, PEER REVIEWED ARTICLES

- K. M. Diaz, D. J. Krupka, M. J. Chang, I. M. Kronish, N. Moise, **J. Goldsmith**, and J. E. Schwartz (2017+). Wrist-based cut-points for moderate- and vigorous-intensity physical activity for the Actical accelerometer in adults. *Journal of Sports Sciences,* accepted.

- J. C. Cortes†, **J. Goldsmith**†, M. Harran, J. Xu, N. Kim, A. R. Luft, P. Celnik, J. W. Krakauer, and T. Kitago (2017+). A short and distinct time window for recovery of arm motor control after stroke revealed with a global measure of trajectory kinematics. *Neurorehabilitation and Neural Repair,* accepted.

- I. M. Kronish, K. M. Diaz, **J. Goldsmith**, N. Moise, and J. E. Schwartz (2017+). Objectively measured adherence to physical activity guidelines after acute coronary syndrome. *Journal of the American College of Cardiology,* accepted.

- P. Reiss, **J. Goldsmith**, H. Shang, and T. Ogden (2017+). Methods for scalar-on-function regression. *International Statistical Review,* accepted.

- **J. Goldsmith** and J. E. Schwartz (2017+). Variable Selection in the Functional Linear Concurrent Model. *Statistics in Medicine,* accepted.

- J. Gertheiss, **J. Goldsmith**, and A.-M. Staicu (2017). A note on modeling sparse exponential-family functional response curves. *Computational Statistics and Data Analysis,* **105** 46-52.

- A. Castano, M. Haq, D. Narotsky, **J. Goldsmith**, R. L. Weinberg, R. Morgenstern, T. Pozniakoff, F. L. Ruberg, E. J. Miller, J. L. Berk, A. Dispenzieri, M. Grogan, G. Johnson, S. Bokhari, and M. S. Maurer (2016). Multicenter Study of Planar Technetium Pyrophosphate Cardiac Imaging: Predicting Survival for Patients With ATTR Cardiac Amyloidosis *JAMA Cardiology,* **1** 880-889.

- **J. Goldsmith** (2016). vbvs.concurrent: Fitting Methods for the Functional Linear Concurrent Model. *The Journal of Open Source Software,* **1**.

- S. T. Sorge, D. C. Hesdorffer, J. C. Phelan, M. R. Winawer, S. Shostak, **J. Goldsmith**, W. K. Chung, and R. Ottman (2016). Genetic causal attribution and depression in multiplex epilepsy families. *Epilepsia,* **57** 1643-1650.

- A. Wong, **J. Goldsmith**, and J. Krakauer (2016). A motor planning stage represents the shape of upcoming movement trajectories. *Journal of Neurophysiology,* **116** 296-305.

- **J. Goldsmith**, X. Liu, J. S. Jacobson and A. Rundle (2016). New insights into activity patterns in children, found using functional data analyses. *Medicine & Science in Sports & Exercise,* **48** 1723-1729.

- J. Wrobel[‡], S.-Y. Park, A.-M. Staicu, and **J. Goldsmith** (2016). Interactive Graphics for Functional Data Analyses. *Stat,* **5** 108-118. [*Article selected as "Exemplar paper"*]

- Y. Chen[‡], **J. Goldsmith**, and T. Ogden (2016). Variable Selection in Function-on-Scalar Regression. *Stat,* **5** 88-101.

- **J. Goldsmith**, T. Kitago (2016). Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression. *Journal of the Royal Statistical Society: Series C,* **65** 215-236.

- C. B. Caminiti, D. C. Hesdorffer, S. Shostak, **J. Goldsmith**, S. T. Sorge, M. R. Winawer, J. C. Phelan, W. K. Chung, and R. Ottman (2016). Parents interest in genetic testing of their offspring in multiplex epilepsy families. *Epilepsia,* **57** 279-287

- K. M. Diaz, D. J Krupka, M. J. Chang, J. A. Schaffer, Y. Ma, **J. Goldsmith**, J. E. Schwartz, K. W. Davidson (2016). Validation of the Fitbit One for physical activity measurement at an upper torso attachment site. *BMC Research Notes,* **9** 213.

- T. Kitago[†], **J. Goldsmith**[†], M. Harran, L. Kane, J. Berard, S. Huang, S. Ryan, P. Mazzoni, J. Krakauer, and V. Huang (2015). Robotic therapy for chronic stroke: general recovery of impairment or improved task-specific skill? *Journal of Neurophysiology,* **114** 1885-1894.

- **J. Goldsmith**, V. Zipunnikov, J. A. Schrack (2015). Generalized Multilevel Functional-on-Scalar Regression and Principal Component Analysis. *Biometrics,* **71** 344-353.

- M. Abdalla, **J. Goldsmith**, P. Muntner, K. M. Diaz, K. Reynolds, J. E. Schwartz, D. Shimbo, (2015). Is Isolated Nocturnal Hypertension a Reproducible Phenotype? *American Journal of Hypertension,* **29** 33-38.

- U. B. Schambra, **J. Goldsmith**, H. M. Schambra, K. Nunleya, S. Harirforoosh, Y. Liu , S. S. Moy (2015). Low and moderate prenatal ethanol exposure of mice during gastrulation or neurulation delays neurobehavioral development. *Neurotoxicology & Teratology,* **51** 1-11

- K. M. Diaz, D. J Krupka, M. J. Chang, J. Peacock, Y. Ma, J. Goldsmith, J. E. Schwartz, K. W. Davidson (2015). Fitbit: An accurate and reliable device for wireless physical activity tracking. *International Journal of Cardiology,* **185** 138-140.

- C. Wang, S. Vine, A. Hsiao, A. Rundle, and **J. Goldsmith** (2015). Weight-Related Behaviors When Children are in School Versus on Summer Breaks: Does Income Matter? *Journal of School Health,* **85** 458-466.

- M. Sabatello, J. Phelan, D. Hesdorffer, S. Shostak, **J. Goldsmith**, S. Sorge, M. Winawer, W. Chung, R. Ottman (2015). Genetic Causal Attribution of Epilepsy and its Implications for Felt Stigma. *Epilepsia,* **56** 1542-1550.

- **J. Goldsmith**, L. Huang, C. M. Crainiceanu (2014). Smooth Scalar-on-Image Regression via Spatial Bayesian Variable Selection. *Journal of Computational and Graphical Statistics,* **23** 46-64.

- **J. Goldsmith**, F. Scheipl (2014). Estimator Selection and Combination in Scalar-on-Function Regression. *Computational Statistics and Data Analysis,* **70** 362–372.

- J. A. Schrack, V. Zipunnikov, **J. Goldsmith**, J. Bai, E. M. Simonsick, C. M. Crainiceanu, L. Ferrucci (2014). Assessing the "Physical Cliff": Detailed Quantification of Aging and Physical Activity. *Journal of Gerontology: Medical Sciences,* **69** 973-979. [*Article selected as "Editor's Choice"*]

- J. A. Schrack, V. Zipunnikov, **J. Goldsmith**, K. Bandeen-Roche, C. M. Crainiceanu, L. Ferrucci (2014). Estimating Energy Expenditure from Heart Rate in Older Adults: a Case for Calibration. *PLoS One,* **9** 1-9.

- S. Vullaganti, **J. Goldsmith**, S. Teruya, J. Alvarez, S. Helmke, M. Maurer (2014). Cardiovascular effects of hemoglobin response in patients receiving epoetin alfa and oral iron in heart failure with a preserved ejection fraction. *Journal of Geriatric Cardiology,* **11** 100-105.

- B. Swihart, **J. Goldsmith**, C. M. Crainiceanu (2014). Restricted Likelihood Ratio Tests for Functional Effects in the Functional Linear Model. *Technometrics,* **56** 483-493.

- J. O. Okeke, V. E. Tangel, S. T. Sorge, D. C. Hesdorffer, M. R. Winawer, **J. Goldsmith**, J. Phelan, W. Chung, S. Shostak, R. Ottman (2014). Genetic Testing Preferences in Families Containing Multiple Individuals with Epilepsy. *Epilepsia,* **55** 1705-1713.

- N. Cyrille, **J. Goldsmith**, J. Alvarez, M. S. Maurer (2014). Prevalence and Prognostic Significance of Low QRS Voltage Among the Three Main Types of Cardiac Amyloid. *American Journal of Cardiology,* **114** 1089-1093

- R. T. Shinohara, E. M. Sweeny, **J. Goldsmith**, N. Shiee, F. J. Mateen, P. A. Calabresi, S. Jarso, D. L. Pham, D. S. Reich, C. M. Crainiceanu (2014). Statistical Normalization Techniques for Magnetic Resonance Imaging. *NeuroImage: Clinical,* **6** 9-19.

- **J. Goldsmith**, S. Greven, C. M. Crainiceanu (2013). Corrected Confidence Bands for Functional Data Using Principal Components. *Biometrics,* **69** 41–51.

- J. Gertheiss, **J. Goldsmith**, C. M. Crainiceanu, S. Greven (2013). Longitudinal Scalar-on-Functions Regression with Application to Tractography Data. *Biostatistics,* **14** 447–461.

- H. Sørensen, **J. Goldsmith**, L. Sangalli (2013). An Introduction with Medical Applications to Functional Data Analysis. *Statistics in Medicine,* **32** 5222-5240

- L. Huang, **J. Goldsmith**, P. T. Reiss, D. S. Reich, C. M. Crainiceanu (2013). Bayesian Scalar-on-Image Regression with Application to Association Between Intracranial DTI and Cognitive Outcomes. *NeuroImage,* **83** 210–223.

- F. J. Leyva, R. P. Bakshi, E. J. Fuchs, L. Li, B. S. Caffo, **J. Goldsmith**, Y. Du, J. P. Leal, L. A. Lee, M. S. Torbenson, C. W. Hendrix (2013). Iso-osmolar enemas demonstrate preferential gastrointestinal distribution, safety, and acceptability compared with hyper- and hypo-osmolar enemas as a potential delivery vehicle for rectal microbicides. *AIDS Research and Human Retroviruses,* **29** 1487–1495.

- T. Shinohara, **J. Goldsmith**, F. Mateen, D. S. Reich, C. M. Crainiceanu (2012). Predicting Breakdown of the Blood-Brain Barrier in Multiple Sclerosis without Contrast Agents. *American Journal of Neuroradiology,* **33** 1586–1590.

- **J. Goldsmith**, C. M. Crainiceanu, B. S. Caffo, D. S. Reich (2012). Longitudinal Penalized Functional Regression for Cognitive Outcomes on Neuronal Tract Measurements. *Journal of the Royal Statistical Society: Series C,* **61** 453–469.

- J. Bai, **J. Goldsmith**, B. S. Caffo, T. Glass, C. M. Crainiceanu (2012). Movelets: A Dictionary of Movement. *Electronic Journal of Statistics,* **6** 559–578.

- N. Louissaint, S. Nimmagadda, E. Fuchs, R. Bakshi, Y. Cao, L. Lee, **J. Goldsmith**, B. S. Caffo, Y. Du, K. King, F. Menendez, M. Torbenson, R. Wahl, C. W. Hendrix (2012). Distribution of Cell-free and Cell-associated HIV Surrogates in the Colon Following Simulated Receptive Anal Intercourse in Men Who Have Sex With Men. *Journal of Acquired Immune Deficiency Syndromes, Basic and Translational Science,* **59**(1) 10–17.

- N. Louissaint, S. Nimmagadda, R. Bakshi, Y. Du, K. Macura, K. King, R. Wahl, **J. Goldsmith**, B. S. Caffo, Y.-J. Cao, J. Anderson, E. Fuchs, C. W. Hendrix. Distribution of Cell-free and Cell-associated HIV Surrogates in the Female Genital Tract following Simulated Vaginal Intercourse (2012). *Journal of Infectious Diseases,* **205**(5) 725–732.

- **J. Goldsmith**, B. S. Caffo, C. M. Crainiceanu, Y. Du, D. S. Reich, C. W. Hendrix (2011). Non-linear Tube Fitting for the Analysis of Anatomical and Functional Structures. *Annals of Applied Statistics,* **5** 337–363.

- **J. Goldsmith**, J. Bobb, C. M. Crainiceanu, B. S. Caffo, D. S. Reich (2011). Penalized Functional Regression. *Journal of Computational and Graphical Statistics,* **20** 830–851.

- **J. Goldsmith**, C. M. Crainiceanu, B. S. Caffo, D. S. Reich (2011). Penalized Functional Regression Analysis of White-Matter Tract Profiles in Multiple Sclerosis. *NeuroImage,* **57** 431–439.

- **J. Goldsmith**, M. P. Wand, C. M. Crainiceanu (2011). Functional Regression via Variational Bayes. *Electronic Journal of Statistics,* **5** 572–602.

- C. M. Crainiceanu, **J. Goldsmith** (2010). Bayesian Functional Data Analysis Using WinBUGS. *Journal of Statistical Software*, **32** 1– 33.

- **J. Goldsmith**, L. Koss (2009). Dynamical properties of the derivative of the Weierstrass elliptic function. *Involve,* **2** 267-288.

REVIEWS AND EDITORIALS

- G. Lovasi, **J. Goldsmith**, (In Press). Invited commentary: Taking advantage of time-varying neighborhood environments. *American Journal of Epidemiology.*

- **J. Goldsmith**, (2014). Review of "Analysis of Variance for Functional Data" by J-T Zhang. *Journal of the American Statistical Association,* **109** 449.

SOFTWARE

- J. Goldsmith, F. Scheipl, L. Huang, J. Wrobel, J. Gellar, J. Harezlak, M. W. McLean, B. Swihart, L. Xiao, C. Crainiceanu and P. T. Reiss (2016). refund: Regression with Functional Data. R package version 0.1-16, available on CRAN.

- J. Wrobel and J. Goldsmith, (2015). refund.shiny: Interactive plotting for functional data analyses. R package version 0.1, available on CRAN.

Presentations

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." International Workshop on Advances in Functional Data Analysis, Madrid, Spain, *plenary presentation.* (03/2016)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." ENAR 2016, Austin, *topic contributed.* (03/2016)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Department of Statistics, Columbia University. (02/2017)

- "New insights into activity patterns in children, found using functional data analyses." Department of Epidemiology and Population Health, Albert Einstein College of Medicine. (02/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." ERCIM, Sevilla, *invited*. (12/2016)

- "Variable Selection for the Concurrent Functional Linear Model." CRoNoS Workshop on FDA, Oviedo, Spain, *invited*. (08/2016)

- "Variable Selection for the Concurrent Functional Linear Model." JSM, Chicago, *topic contributed*. (08/2016)

- Discussion on "Statistical Analysis of Wearable Sensor Data To Understand Human Movement and Activity.", IBC, Victoria, British Columbia, *invited*. (06/2016)

- "Variable Selection for the Concurrent Functional Linear Model." ICSA, Atlanta, *invited*. (06/2016)

- "Kinematic data in motor control experiments." ENAR 2016, Austin, *invited*. (03/2016)

- "Kinematic data in motor control experiments." Department of Biostatistics, University of Texas Health Science Center at Houston. (02/2016)

- "Variable Selection for the Concurrent Functional Linear Model." ERCIM, London, *invited*. (12/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA." Department of Bioinformatics, Columbia University. (12/2015)

- "Kinematic data in motor control experiments." Department of Biostatistics, University of Washington. (10/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA + Visualization." JSM 2015, Seattle. (07/2015)

- "Kinematic data in motor control experiments + Visualization." ISI WSC 2015, Rio de Janiero. (07/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA + Visualization." ISI WSC 2015, Rio de Janiero. (07/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA + Visualization." BIRS Workshop, Banff. (07/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA." ENAR 2015, Miami, *invited*. (03/2015)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA." ERCIM, Pisa, *invited*. (12/2014)

- "Using Functional Data Methods to Assess Covariate Effects on Daily Activity Patterns." Gerontological Society of America Annual Meeting, Washington DC. *invited symposium*. (11/2014)

- "Generalized Multilevel Functional-on-Scalar Regression and PCA." Department of Biostatistics, University of Minnesota. (09/2014)

- "Smooth Scalar-on-Image Regression via Spatial Bayesian Variable Selection.".JSM 2014, Boston, *topic contributed*. (08/2014)

- "Generalized Multilevel Functional-on-Scalar Regression and Principal Component Analysis." Department of Statistics, University of Pennsylvania. (04/2014)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." Department of Statistics, Columbia University. (03/2014)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." ENAR 2014, Baltimore, *invited*. (03/2014)

- "Corrected Confidence Intervals for Functional Data Using Principal Components." ERCIM, London, *invited*. (12/2013)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." ERCIM, London, *invited*. (12/2013)

- "Bayesian Penalized Function-on-Scalar Regression for Longitudinal Accelerometry Data." Division of Biostatistics in the Department of Psychiatry, Columbia University. (09/2013)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." Department of Biostatistics, Johns Hopkins University. (09/2013)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." Department of Statistics, Seoul National University. (08/2013)

- "Estimating Energy Expenditure from Heart Rate and Activity Counts: a Bayesian Approach." IASC Seoul, South Korea, *invited*. (08/2013)

- "Assessing Systematic Effects of Stroke on Motor Control using Hierarchical Function-on-Scalar Regression." JSM, Montreal, *Topic Contributed*. (08/2013)

- "Estimating Energy Expenditure from Heart Rate and Activity Counts: a Bayesian Approach." ICAMPAM, Amherst, MA, *invited*. (06/2013)

- "Bayesian Penalized Function-on-Scalar Regression for Longitudinal Accelerometry Data." SRCOS, Nashville, TN, *invited*. (06/2013)

- "Smooth Scalar-on-Image Regression." University of Miami Spatial Statistics Conference, Miami, FL, *invited*. (12/2012)

- "Longitudinal Penalized Functional Regression." Annual Conference of the German and Austrian Statistical Associations, Vienna, Austria, *invited*. (09/2012)

- "A Modular Approach to Functional Regression". Annual Conference of the International Society for Clinical Biostatistics, Bergen, Norway, *invited*. (08/2012)

- "Fast Joint Functional Regression Modeling via Variational Bayes". JSM 2012, San Diego, *invited*. (07/2012)

- "Corrected Confidence Intervals for Functional Data Using Principal Components". JSM 2012, San Diego, *topic contributed*. (07/2012)

- "Movelets: A Dictionary of Movement". Interface 2012, *invited*. (05/2012)

- "Corrected Confidence Intervals for Functional Data Using Principal Components". ENAR 2012, Washington DC, *contributed*. (04/2012)

- "Longitudinal Penalized Functional Regression". JSM 2011, Miami, *contributed*. (08/2011)

- "Cross-Sectional and Longitudinal Penalized Functional Regression". Ludwig-Maximillians-University, *invited*. (06/2011)

- "Cross-Sectional and Longitudinal Penalized Functional Regression". Interface 2011, *invited by Editor of JCGS.* (06/2011)

- "Longitudinal Penalized Functional Regression". ENAR 2011, Miami, *invited.* (03/2011)

- "Non-linear Tube-fitting and Penalized Functional Regression in Diffusion Tensor Imaging". National Institues of Health, Translational Neuroradiology Unit, *invited.* (03/2011)

- "Penalized Functional Regression". Joint Statistical Meetings 2010, Vancouver, *topic contributed.* (08/2010)

- "Penalized Functional Regression". University of Wollongong, Australia, *invited.* (06/2010)

- "Medical Imaging and Biostatistics". Dickinson College, Department of Mathematics and Computer Science, *invited.* (04/2010)