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JG

Date of Preparation

January 23, 2022

Academic Appointments / Work Experience

06/2018–Present	**Department of Biostatistics** **Mailman School of Public Health, Columbia University** Associate Professor
06/2012–05/2018	**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

04/2021	Dean's Excellence in Leadership Award
03/2021	COPSS Leadership Academy For Emerging Leaders in Statistics
06/2017	Tow Faculty Scholar
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
09/2008–08/2011	Reigning Biostatistics Department Annual Chili Cook-off Champion
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

2020	Dutch Research Council (NWO) Vici
2016	NSF/NIH Initiative on Quantitative Approaches to Biomedical Big Data (QuBBD)

EDITORIAL SERVICE

10/2020–Present	Guest Editor, Computational Statistics and Data Analysis (Special Issue on High Dimensional and Functional Data Analysis)
08/2019–Present	Statistical Reviewer, JAMA Network Open
09/2018–Present	Associate Editor for Reproducibility, Journal of the American Statistical Association
	▪ Applications and Case Studies 09/2018–Present
	▪ Theory and Methods 06/2021–Present
02/2017–Present	Associate Editor, Biostatistics
12/2015–09/2018	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, Environmental and Ecological Statistics, Environmental Research, IEEE/AMC Transactions on Computational Biology and Bioinformatics, International Journal of Biostatistics, Journal of the American Statistical Association, Journal of Child Psychology and Psychiatry, Journal of Computational and Graphical Statistics, Journal of Gerontology: Medical Sciences, Journal of Multivariate Analysis, Journal of the Royal Statistical Society (Series A, B & C), Journal of Nonparametric Statistics, 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

06/2018–06/2020	ENAR Nominations Committee
03/2017–03/2018	Associate Program Chair, ENAR 2018 Meeting
01/2017–12/2019	Regional Advisory Board (Member), ENAR
10/2010–Present	ENAR (Member)
08/2009–Present	ASA (Member)

Departmental and University Committees

08/2020–Present	Director of the PhD Program, Department of Biostatistics
07/2020–Present	Faculty Director of the Collaboratory, Columbia University
09/2019–Present	Member, Qualifying Exam Committee (Applied), Department of Biostatistics
07/2019–Present	Co-Chair, Mailman Data Science Faculty Advisory Committee
09/2018–09/2020	Member, Annual Faculty Review Committee, Department of Biostatistics ■ Co-Chair 09/2019–09/2020
02/2018–Present	Member, Mailman Corporate-Academic Committee
02/2018–Present	Member, Education Working Group, Data Science Institute, Columbia University ■ Co-Chair 07/2020–Present
09/2017–09/2019	Member, PhD Program Taskforce, Department of Biostatistics ■ Co-Chair 09/2018–09/2019
09/2016–09/2019	Member, Student Recruitment Committee, Department of Biostatistics ■ Chair 09/2016–09/2017
09/2016–Present	Member, Health Analytics Center Committee, Data Science Institute ■ Member of Steering Committee, 01/2021–Present
08/2015–09/2020	Member, Curriculum Committee, Department of Biostatistics
10/2014–06/2015	Co-Director, Global Research Analytics for Population Health (GRAPH), Mailman School of Public Health
08/2014–08/2019, 09/2020-Present	Member, Faculty Recruitment Advisory Committee, Department of Biostatistics ■ Chair 09/2017–09/2018
08/2014–09/2016, 09/2020-Present	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 ■ Chair 09/2018–09/2020; Co-Chair 09/2020-Present

Fellowship and Grant Support

Present Support

09/2021-07/2026	1U2RTW012123-01, NIEHS, NIH (Berhane, Bekele, Weke)
	Advancing Public Health Research in Eastern Africa through Data Science Training (APHREA-DST)
	Co-Investigator
09/2020-08/2023	5R01ES030945-02, NIEHS, NIH (Gamble)
	Interdisciplinary approaches for understanding the metabolic effects of arsenic and manganese
	Co-Investigator
8/2020–4/2024	R01 DK123285-01A1, NIH / NIDDK & Ofc of the Dir, NIH (Gamble)
	Metabolomic and Nutrigenetic Effects of Folic Acid Supplementation and Unmetabolized Folic Acid
	Co-Investigator
3/2020–12/2024	R01MD014872-01 , NIH/NIMHHD, NIH (Woo Baidal)
	LINC: Leveraging IT for Neighborhoods in Childhood
	Co-Investigator
4/2019–3/2024	R01 AG062401, NIH / NIA (McKeague)
	Inferential methods for functional data from wearable devices
	Co-Investigator
12/2018 – 11/2023	R01 HS025937, AHRQ (Poghosyan)
	Social Networks in Medical Homes and Impact on Patient Care and Outcome
	Co-Investigator
01/2018–12/2023	R01 ES028805, NIH/NIEHS (Kioumourtzoglou)
	Principal Component Pursuit to Assess Exposure to Environmental Mixtures in Epidemiologic Studies
	Co-Investigator
07/2016–07/2022	R01 NS097423-01, NIH / NINDS (Goldsmith)
	Functional data analytics for kinematic assessments of motor control
	Principal Investigator

Past Support

7/2018– 6/2021	DDCF 2018090, Doris Duke Charitable Foundation (Woo Baidal)
	Developing novel clinical approaches to reduce childhood obesity risk
	Co-Investigator
08/2017–06/2021	R01 EB024526-02, NIH / NIBIB (Ogden)
	Advanced Modeling Techniques for Brain Imaging Data with PET
	Co-Investigator
09/2014–07/2019	R01 HL123407, NIH / NHLBI (Crainiceanu)
	Statistical methods for biosignals with varying domains
	Subcontract Principal Investigator
11/1998–07/2019	P50 ES009600, NIH / NIEHS (Perera)
	The Columbia Center for Children's Environmental Health
	Co-Investigator
09/2015–05/2019	R01 AG049970, NIH / NIA (Lovasi)
	Communities Designed to Support Cardiovascular Health for Older Adults
	Co-Investigator
04/2018–03/2019	R25 GM062454, NIH / NIGMS (Contact PI: Wingood)
	IMSD at Columbia's Mailman School of Public Health
	Co-PI
06/2015–06/2017	R21 EB018917, NIH / NIBIB (Goldsmith)
	Generalized, multilevel functional response models applied to accelerometer data
	Principal Investigator
09/2014–05/2016	R21 AG046703, NIH / NIA (Maurer)
	Can Ventricular Assist Devices Reverse the Frailty Phenotype
	Co-Investigator
07/2014–07/2016	McDonnel Foundation (Kitago)
	Augmenting spontaneous recovery with robotic arm therapy and non-invasive brain stimulation
	Co-Investigator
04/2012–04/2016	R01 NS078419, NIH / NINDS (Ottman)
	Psychosocial Impact of Genetics in Epilepsy
	Co-Investigator
09/2010–04/2021	K24 AG036778-10, NIH / NIA (Maurer)
	Midcareer Mentoring Award for Patient Oriented Research In Geriatric Cardiology
	Co-Investigator

Teaching Experience and Responsibilities

SPECIFIC COURSES

Fall 2021	Data Science I (200 enrolled students)
Fall 2020	Data Science I (200 enrolled students)
Fall 2019	Data Science I (180 enrolled students)
Summer 2019	Introduction to Biostatistics (23 enrolled students)
Fall 2018	Data Science I (143 enrolled students)
Fall 2017	Data Science I (76 enrolled students)
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

Fall 2019	Joint Statistical Meeting Short Course ("Functional Data Analysis for Wearables: Methods and Applications")
Spring 2017	International Conference on Ambulatory Monitoring of Physical Activity Short Course ("Functional Data Analysis for Wearables: Methods and Applications")
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) Master's program
01/2013–Present	Co-founder and Director, Functional Data Analysis Working Group (FDAWG)

Doctoral Advisees

2022 (Expected)	Angel Garcia de la Garza
2021	Patrick Hilden (First employment: Janssen; Winner of Sanford Bolton-John Fertig Award, which recognizes a top doctoral dissertation in Biostatistics)
2019	Julia Wrobel (First employment: Assistant Professor, Department of Biostatistics, University of Colorado Denver)
2018	Daniel Backenroth (First employment: Quantitative scientist, cancer genomics at Flatiron Health)
2018	Jihui Lee (First employment: Post Doctoral Researcher at Weill Cornell Department of Biostatistics)
2016	Yakuan Chen (First employment: Senior Inventive Scientist at AT&T Labs)

Master's Advisees

2021	Kevin Wongsodirdjo (Theory and Methods)
2020	Christian Pascual (Theory and Methods)
2020	Priyanka Srinivasan (Theory and Methods)
2019	Nadiya Pavlishyn (Theory and Methods)
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

2020	Juan Carlos Laria de la Cruz (Dissertation Reader)
2020	Yuan Gao (External Thesis Examiner)
2019	Andrea Duran (Dissertation Defense)
2019	Beth Rubenstein (Dissertation Defense)
2018	Sang il Kim (External Thesis Examiner)
2018	Javier Alvarez Libana (Dissertation Reader)
2018	Elizabeth Gibson (Oral Examination)
2017	Sharifa Barracks (Oral Examination and Dissertation Defense)
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

- Yan, X., **Goldsmith, J.**, Mohan, S., Turnbull, Z.A., Freundlich, R.E., Billings, F.T., Kiran, R.P., Li, G. and Kim, M. (2021). Impact of Intraoperative Data on Risk Prediction for Mortality After Intra-Abdominal Surgery. *Anesthesia & Analgesia,* **134** 102-113.

- Saith, S.E., Gamino, D., Teruya, S., Guadalupe, S., Helmke, S., De Los Santos, J., **Goldsmith, J.**, Rosenblum, H.R., Griffin, J.M. and Maurer, M.S., (2021). Factors associated with changes in serum transthyretin after treatment with tafamidis and outcomes in transthyretin cardiac amyloidosis. *Amyloid,* **28** 267-268.

- Duran, A.T., Pascual, C.B., **Goldsmith, J.**, Howard, V.J., Hutto, B., Colabianchi, N., Vena, J.E., McDonnell, M.N., Blair, S.N., Hooker, S.P. and Diaz, K.M. (2021). Objectively Measured Physical Activity and Sedentary Time Among Adults With and Without Stroke: A National Cohort Study. *Stroke,* **52** e729-e732.

- Navas-Acien, A., Domingo-Relloso, A., Subedi, P., Riffo-Campos, A.L., Xia, R., Gomez, L., Haack, K., **Goldsmith, J.**, Howard, B.V., Best, L.G. and Devereux, R., (2021). Blood DNA Methylation and Incident Coronary Heart Disease: Evidence From the Strong Heart Study. *JAMA Cardiology,* **6** 1237-1246.

- Johnson, C.N., Ramphal, B., Koe, E., Raudales, A., **Goldsmith, J.**and Margolis, A.E., (2021). Cognitive correlates of autism spectrum disorder symptoms. *Autism Research,* **14** 2405-2411.

- Margolis, A.E., Ramphal, B., Pagliaccio, D., Banker, S., Selmanovic, E., Thomas, L.V., Factor-Litvak, P., Perera, F., Peterson, B.S., Rundle, A. Herbstman, J.B., **Goldsmith, J.**, and Rauh, V. (2021). Prenatal exposure to air pollution is associated with childhood inhibitory control and adolescent academic achievement. *Environmental Research,* **202** p 111570.

- Nunez, Y., Boehme, A.K., Li, M., **Goldsmith, J.**, Weisskopf, M.G., Re, D.B., Navas-Acien, A., van Donkelaar, A., Martin, R.V. and Kioumourtzoglou, M.A., (2021). Parkinson's disease aggravation in association with fine particle components in New York State. *Environmental Research,* **201**, p.111554.

- Cornelius, T., Denes, A., Webber, K.T., Guest, C., **Goldsmith, J.**, Schwartz, J.E., and Gorin, A.A. (2021). Relationship quality and objectively measured physical activity before and after implementation of COVID-19 stay-home orders. *Journal of Health Psychology,* DOI:13591053211042075.

- C P Friel, C B Pascual, A T Duran, **J Goldsmith**, K M Diaz (2021). Joint associations of occupational standing and occupational exertion with musculoskeletal symptoms in a US national sample. *Occupational and Environmental Medicine,* **78**, 494-499.

- Rowland, S.T., Parks, R.M., Boehme, A.K., **Goldsmith, J.**, Rush, J., Just, A.C. and Kioumourtzoglou, M.A., (2021). The association between ambient temperature variability and myocardial infarction in a New York-State-based case-crossover study: An examination of different variability metrics. *Environmental Research,* **197**, p.111207.

- McDonnell, E.I., Zipunnikov, V., Schrack, J.A., **Goldsmith, J.**and Wrobel, J., (2021). Registration of 24-hour accelerometric rest-activity profiles and its application to human chronotypes. *Biological Rhythm Research,* pp.1-21.

- Krakauer, J.W., Kitago, T., **Goldsmith, J.**, Ahmad, O., Roy, P., Stein, J., Bishop, L., Casey, K., Valladares, B., Harran, M.D. and Cortes, J.C. (2021). Comparing a Novel Neuroanimation Experience to Conventional Therapy for High-Dose Intensive Upper-Limb Training in Subacute Stroke: The SMARTS2 Randomized Trial. *Neurorehabilitation and Neural Repair,* **35**, pp.393-405.

- **J Goldsmith**, Y Sun, L Fried, J Wing, G W Miller, K Berhane (2021). The Emergence and Future of Public Health Data Science. *Public Health Reviews,* accepted.

- Nunez, Y., Gibson, E.A., Tanner, E.M., Gennings, C., Coull, B.A., **Goldsmith, J.**, and Kioumourtzoglou, M.A., (2021). Reflection on modern methods: good practices for applied statistical learning in epidemiology. *International journal of epidemiology,* **50**, 685-693.

- H Rosenblum, A Masri, D L Narotsky, **J Goldsmith**, N Hamid, R T Hahn, S Kodali, T Vahl, T Nazif, O K Khalique, S Bokhari, P Soman, J L Cavalcante, M S Maurer, A Castano Unveiling outcomes in coexisting severe aortic stenosis and transthyretin cardiac amyloidosis (2021). *European Journal of Heart Failure,* **23** 250-258.

- L R Mitrani, J De Los Santos, E Driggin, R Kogan, S Helmke, **J Goldsmith**, A B Biviano, M S Maurer (2021). Anticoagulation with warfarin compared to novel oral anticoagulants for atrial fibrillation in adults with transthyretin cardiac amyloidosis: comparison of thromboembolic events and major bleeding *Amyloid,* **28** 30-34.

- S Lovinsky-Desir, K H Jung, M Montilla, J Quinn, J Cahill, D Sheehan, F Perera, S N Chillrud, **J Goldsmith**, M Perzanowski, A Rundle, R Miller (2021). Locations of Adolescent Physical Activity in an Urban Environment and their Associations with Air Pollution and Lung Function. *Annals of the American Thoracic Society,* **18** 84-92.

- D. Backenroth[‡], R. T. Shinohara, J. A. Schrack, and **J Goldsmith** (2020). Non-negative decomposition of functional count data. *Biometrics,* **76** 1273-1284.

- J Wrobel[‡], ML Martin, R Bakshi, PA Calabresi, M Elliot, D Roalf, RC Gur, RE Gur, RG Henry, G Nair, J Oh, N Papinutto, D Pelletier, Daniel Salo Reich, WD Rooney, TD Satterthwaite, W Stern, K Prabhakaran, NL Sicotte, RT Shinohara, **J Goldsmith** (2020). Intensity warping for multisite MRI harmonization. *NeuroImage,* **223** 117284.

- D Pagliaccio, JB Herbstman, F Perera, D Tang, **J Goldsmith**,, BS Peterson, V Rauh, AE and Margolis (2020). Prenatal exposure to polycyclic aromatic hydrocarbons modifies the effects of early life stress on attention and Thought Problems in late childhood. *Journal of Child Psychology and Psychiatry,* **61** 1253-1265.

- J M Griffin, L Chiu, K M Axsom, R Bijou, K J Clerkin, P Colombo, M O Cuomo, J De Los Santos, J A Fried, **J Goldsmith**, M Habal, J Haythe, S Helmke, E M Horn, F Latif, S H Lee, E F Lin, Y Naka, J Raikhelkar, S Restaino, G T Sayer, H Takayama, K Takeda, S Teruya, V Topkara, E J Tsai, N Uriel, M Yuzefpolskaya, M A Farr, M S Maurer (2020). United network for organ sharing outcomes after heart transplantation for al compared to ATTR cardiac amyloidosis *Annals of the American Thoracic Society,* **34** e14028.

- M He, P Kinney, C Chen, Q Sun, J Ban, J Wang, S Liu, **J Goldsmith**, M-A Kioumourtzoglou (2020). Short- and intermediate- term exposure to NO2 and mortality: a multi-county analysis in China. *Environmental Pollution,* **261** 114165.

- E Driggin, S Helmke, J De Los Santos, S Teruya, S Guadalupe, **J Goldsmith**, M S Maurer (2020). Markers of nutritional status and inflammation in transthyretin cardiac amyloidosis: association with outcomes and the clinical phenotype. *Amyloid,* **27** 73-80.

- A. E. Margolis, J. Broitman, J. M. Davis, L. Alexander, A. Hamilton, Z. Liao, S. Banker, L. Thomas, G. A. Salum, K. Merikangis, **J Goldsmith**, T. Paus, K. Keyes, M. P. Milham (2020). Estimated prevalence of nonverbal learning disability among North American children and adolescents. *JAMA Network Open,* **3** e202551-e202551

- E. A. Gibson, Y. Nunez, A. Abuawad, A. R. Zota, S. Renzetti, Katrina L Devick, C. Gennings, **J. Goldsmith**, B. A. Coull, M.-A. Kioumourtzoglou (2019). An Overview of Methods to Address Distinct Research Questions on Environmental Mixtures: An Application to Persistent Organic Pollutants and Leukocyte Telomere Length. *Environmental Health,* **18** 76.

- R. Kundert, **J. Goldsmith**, J. Veerbeek, J. W. Krakauer, and A. R. Luft (2019). What the proportional recovery rule is (and is not): methodological and statistical considerations. *Neurorehabilitation and Neural Repair,* **33** 876-887.

- A.G. Rundle, D. Gallagher, J. B. Herbstman, **J. Goldsmith**, D. Holmes, A. Hassoun, S. Oberfield, R. L. Miller, H. Andrews, E. M. Widen, L. A. Hoepner, and F. Perera (2019). Prenatal Exposure to Airborne Polycyclic Aromatic Hydrocarbons and Childhood Growth Trajectories from Age 5 to 14 Years. *Environmental Research,* **177** 108595.

- J. Lee‡, G. Li, W. F. Christensen, G. Collins, M. Seeley, A. E. Bowden, D. T. Fullwood, and **J. Goldsmith**(2019). Functional Data Analyses of Gait Data Measured Using In-Shoe Sensors. *Statistics in Biosciences,* **11** 288-313.

- E. A. Gibson, **J. Goldsmith**, and M.-A. Kioumourtzoglou (2019). Complex Mixtures, Complex Analyses: an Emphasis on Interpretable Results. *Current Environmental Health Reports,* **6** 53-61.

- Y. Chen‡, **J. Goldsmith**, and T. Ogden (2019). Functional data analysis of dynamic PET data. *Journal of the American Statistical Association,* **114** 595-609.

- J. Xu, M. Branscheidt, H. Schambra, L. Steiner, M. Widmer, J. Diedrichsen, **J. Goldsmith**, M. Lindquist, T. Kitago, A. R. Luft, J. W. Krakauer, P. A. Celnik, SMARTS Study Group (2019) Rethinking interhemispheric imbalance as a target for stroke neurorehabilitation. *Annals of neurology,* **85** 502-513.

- J. Wrobel‡, V. Zipunnikov, J. Schrack, and **J. Goldsmith** (2019). Registration for exponential family functional data. *Biometrics,* **75** 48-57.

- R. Liu, R. C. Shelton, N. Eldred-Skemp, **J. Goldsmith**, and S. F. Suglia (2019) Early Exposure to Cumulative Social Risk and Trajectories of Body Mass Index in Childhood. *Childhood Obesity,* **15** 48-55.

- Y. Chen‡, **J. Goldsmith**, and T. Ogden (2019). Nonlinear mixed-effects models for PET data. *Transactions on Biomedical Engineering,* **66** 881-891.

- D. Backenroth‡, **J. Goldsmith**, M. D. Harran, J. C. Cortes, J. W. Krakauer, and T. Kitago (2018). Modeling motor learning using heteroskedastic functional principal components analysis. *Journal of the American Statistical Association,* **113** 1003-1015.

- J. A. Woo Baidal, K. Morel, K. Nichols, E. Elbel, N. Charles, **J. Goldsmith**, L. Chen, and E. M. Taveras (2018). Sugar-sweetened beverage attitudes and consumption during the first 1,000 days of life. *American Journal of Public Health,* **108**, 1659-1665.

- H. Rosenblum, A. Castano, J. Alvarez, **J. Goldsmith**, S. Helmke, M.S. Maurer (2018). TTR (Transthyretin) Stabilizers Are Associated With Improved Survival in Patients With TTR Cardiac Amyloidosis. *Circulation: Heart Failure,* **11** e004769.

- K. M. Diaz, D. J. Krupka, M. J. Chang, I. M. Kronish, N. Moise, **J. Goldsmith**, and J. E. Schwartz (2018). Wrist-based cut-points for moderate- and vigorous-intensity physical activity for the Actical accelerometer in adults. *Journal of Sports Sciences,* **36** 206-212.

- K. Diaz, **J. Goldsmith**, H. Greenlee, G. Strizich, Q. Qi, Y. Mossavar-Rahmani, D. Vidot , C. Buelnas, C. Brintz, T. Elfassy, L. Gallo, M. Daviglus, D. Sotres- Alvarez, and R. Kaplan (2017). Prolonged, uninterrupted sedentary behavior and glycemic biomarkers among US Hispanic/Latino adults *Circulation,* **136** 1362-1373.

- M. S. Maurer, E. Horn, A. Reyentovich, V. V. Dickson, S. Pinney, D. Goldwater, N. E. Goldstein, O. Jimenez, S. Teruya, **J. Goldsmith**, S. Helmke, M. Yuzefpolskaya, and G. R Reeves (2017). Can a Left Ventricular Assist Devices in Advanced Systolic Heart Failure Improve or Reverse the Frailty Phenotype? *Journal of the American Geriatrics Society,* **65** 2383-2390.

- 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,* **31** 552-560.

- 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,* **9** 1205-1207.

- **J. Goldsmith** and J. E. Schwartz (2017). Variable Selection in the Functional Linear Concurrent Model. *Statistics in Medicine,* **36** 2237-2250.

- A. L. Wong, **J. Goldsmith**, A. D. Forrence, A. M. Haith, and J. W. Krakauer (2017). Reaction times can reflect habits rather than computations. *eLife,* **6** e28075.

- P. Reiss, **J. Goldsmith**, H. Shang, and T. Ogden (2017). Methods for scalar-on-function regression. *International Statistical Review,* **85** 228-249.

- 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.

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- 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.

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- 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.

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- **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

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- 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.

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- 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 Win-BUGS. *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

- P. T. Reiss and **J. Goldsmith**, (2017). Discussion of "Fast Approximate Inference for Arbitrarily Large Semiparametric Regression Models via Message Passing" by M. P. Wand. *Journal of the American Statistical Association,* **112** 161-164.

- G. Lovasi, **J. Goldsmith**, (2014). Invited commentary: Taking advantage of time-varying neighborhood environments. *American Journal of Epidemiology*, **180** 462-466

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

SOFTWARE

- F. Scheipl and J. Goldsmith (2016). tidyfun: Clean, wholesome, tidy fun with functional data. R package version 0.0.6, available on GitHub.

- 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.

- Other packages available on GitHub include `vbvs.concurrent`, `BayesFoSR`, and `tiger.king`

Presentations

- "Adaptive Functional Principal Component Analysis" CMStatistics, online / hybrid, *invited*. (12/2021)

- "Motor Control Data and AI." Stanford AI + Health Online Conference, *invited panel discussion*. (12/2021).

- "The emergence and future of public health data science." Department of Biostatistics, UCLA. (11/2021).

- "Functional Data Methods for Wearable Device Data." Bridges Between Mathematics and Data Science Workshop, Valladolid, Spain, *plenary address*. (11/2021).

- "Functional Data Methods for Wearable Device Data." ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, *town hall session*. (09/2021).

- "`tidyfun`: A new framework for representing and working with function-valued data" JSM, online, *invited poster*. (08/2021).

- "Functional Data Methods for Wearable Device Data." Statistics and Econometrics seminar, Humboldt University of Berlin. (05/2021).

- "The emergence and future of public health data science." Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health. (4/2021).

- "What the proportional recovery rule is (and is not): Methodological and statistical considerations." ENAR 2021, online *invited*. (3/2021).

- "`tidyfun`: A new framework for representing and working with function-valued data" CMStatistics, online, *invited*. (12/2020)

- "Data Science Ethics: a View from Public Health", Data Science Day, Columbia University Data Science Institute, *invited panel*. (09/2020).

- "The Emergence and Future of Data Science", Ergon Professional Hub (online). (09/2020).

- "Considerations for ethical data science" and "Rigorous research using wearable devices". University of Michigan Rogel Cancer Center, *virtual workshop*. (09/2020).

- "Data-driven chronotype discovery using functional data methods", JSM 2020, online, *invited*. (08/2020).

- "The Three M's: Meetings, Memberships, and Money!" ENAR 2020, Nashville / online, *invited panel*. (03/2020).

- "Functional Data Methods for Wearable Device Data." BIRS Workshop, Banff, *invited*. (02/2020).

- "Ethics for Public Health Data Science." Data Science for Public Health Summit, New York *invited panel*. (01/2020).

- "What the proportional recovery rule is (and is not): Methodological and statistical considerations." CMStatistics 2019, London *invited*. (12/2019).

- "Proportional Recovery" American Society for Neurorehabilitation 2019, Chicago *Panel Debate*. (10/2019).

- "Registration for Exponential Family Functional Data." JSM 2019, Denver, *invited*. (08/2019)

- "`tidyfun`" ICSA 2019, Raleigh, *invited*. (06/2019)

- "Models for Functional Responses." Bill and Melinda Gates Foundation. (05/2019)

- "Variable Selection for the Concurrent Functional Linear Model." ENAR 2019, Philadelphia, *invited* . (03/2019)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Department of Statistics, Rice University. (02/2019)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Department of Population Health Science and Policy Grand Rounds, Icahn School of Medicine at Mount Sinai. (02/2019)

- "Registration for Exponential Family Functional Data." CMStatistics 2018, Pisa. (12/2018)

- "Registration for Exponential Family Functional Data." Department of Statistics and Computational Biology, University of Rochester. (10/2018)

- "Functional data methods for wearable device data." Ai4 / Healthcare, NYC. (11/2018)

- "Functional data methods for wearable device data." Department of Biostatistics and Epidemiology, Drexel University. (10/2018)

- "Non-Negative Decomposition of Functional Count Data", JSM 2018, Vancouver, *invited*. (08/2018)

- "Non-Negative Decomposition of Functional Count Data", IBC 2018, Barcelona, *invited*. (06/2018)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Conference on Statistical Learning and Data Science, New York, *invited*. (06/2018)

- "Functional Data Analysis for High Dimensional Data." Rockefeller University. (05/2018)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Department of Biostatistics, Emory. (04/2018)

- "Matrix Factorization Approaches to Analysis of Functional Count Data." ENAR 2018, Atlanta, *invited*. (3/2018)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." CMStatistics 2017, London, *invited*. (12/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Department of Statistics, Pennsylvania State University. (09/2017)

- "New insights into activity patterns in children, found using functional data analyses." JSM 2017, Baltimore, *topic contributed*. (08/2017)

- Discussion on "Recent developments for functional data exploration." ISI WSC 2017, Marrakech. (07/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." ISI WSC 2017, Marrakech, *invited*. (07/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." SIS 2017, Florence, *invited*. (06/2017)

- "Registration for Exponential Family Functional Data." International Workshop on Functional and Operatorial Statistics, Coruna, Spain, *invited*. (06/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." Division of Biostatistics & Epidemiology, Weill Cornell Medicine. (04/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." International Workshop on Advances in Functional Data Analysis, Madrid, Spain, *plenary presentation.* (03/2017)

- "Modeling Motor Learning Using Heteroskedastic Functional Principal Components Analysis." ENAR 2017, Washington DC, *topic contributed.* (03/2017)

- "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)