STEVEN G. BUYSKE

Department of Statistics
Rutgers, The State University of New Jersey
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EDUCATION

RUTGERS UNIVERSITY New Brunswick, NJ
Ph.D. in Statistics, May 1998
Zhiliang Ying, advisor
ETS Gullicksen Psychometric Fellow 1997–1998
ETS/GRE Board Psychometric Fellow 1996–1997
ENAR Student Prize Award 1998

BROWN UNIVERSITY Providence, RI
Ph.D. in Mathematics, May 1988
Katsumi Nomizu, advisor
Sc.M. in Mathematics (with thesis), May 1986
Sigma Xi

HAVERFORD COLLEGE Haverford, PA
B.A. in Mathematics, May 1983
Magna cum laude with Departmental Honors
Phi Beta Kappa
Clementine Cope Fellow
Students' Association Vice-President

DEEP SPRINGS COLLEGE Deep Springs, CA
Attended 1978–1980
Student Body President

EMPLOYMENT

ASSOCIATE PROFESSOR OF STATISTICS, 2017–
ASSOCIATE RESEARCH PROFESSOR OF STATISTICS, 2006–2017
ASSISTANT PROFESSOR OF STATISTICS, 1998–2006

UNDERGRADUATE DATA SCIENCE CO-DIRECTOR, 2021–
UNDERGRADUATE STATISTICS CO-DIRECTOR, 2017–
ASSOCIATE DIRECTOR, OFFICE OF STATISTICAL CONSULTING, 2004–
ACTING DIRECTOR, MASTER OF SCIENCE IN DATA SCIENCE PROGRAM, 2017–2018
ACTING DIRECTOR, OFFICE OF STATISTICAL CONSULTING, 2011–2012

ADJUNCT APPOINTMENT IN GENETICS, 2003–
ADJUNCT APPOINTMENT IN CENTER OF ALCOHOL STUDIES, 1999–2017
Rutgers University, Piscataway, NJ

VISITING FELLOW
Rockefeller University, Laboratory of Statistical Genetics (Jürg Ott), 2002

ASSISTANT PROFESSOR OF MATHEMATICS
Lafayette College, Easton, PA, 1988–1995

AWARDS

2020–2021 School of Arts and Sciences Award for Distinguished Contributions to Undergraduate Education

GRANTS (AS PRINCIPAL INVESTIGATOR)

Flexible statistical methods for growth curve modeling
Rutgers University Research Council Grant 07/99–06/00
$3,250 Total Direct Costs

Phenotype Based Approaches in Statistical Genetics
NIH/NIAAA K25AA015346 01/05–12/09
$487,675 Total Direct Costs http://tiny.cc/K25AA015346

NHGRI PAGE Coordinating Center
NIH/NHGRI U01HG007419 09/13–05/19
(PI jointly with T. Matise) http://tiny.cc/U01HG007419
$2,463,198 Total Direct Costs

NHGRI Genome Sequencing Project Coordinating Center
NIH/NHGRI U24HG008956 01/16–11/22
(PI jointly with T. Matise) http://tiny.cc/U24HG008956
$3,653,548 Total Direct Costs

PAGE III: Population Architecture using Genomics and Epidemiology
NIH/NHGRI R56HG010297 09/18–06/19
(PI jointly with five others) http://tiny.cc/R56HG010297
$864,419 Total Direct Costs

The Rutgers University Genetics Coordinating Center—Study of the Genetics of Breast Cancer
Regeneron Pharmaceuticals, Inc. 11/23–04/25
(PI jointly with T. Matise)
$545,032 Total Direct Costs

GRANTS (AS CO-INVESTIGATOR)

Treatment of Depression in Patients with Parkinson's Disease
NIH/NINDS R01NS43144 06/03–05/06
M. Menza (University of Medicine & Dentistry of New Jersey), PI

NIMH Center for Collaborative Genetic Studies on Mental Disorders
NIH/NIMH U24MH068457 07/03–06/13
J. Tischfield (Rutgers University, Genetics), PI

Oxidative Stress in Autism
Cure Autism Now Foundation 01/05–12/06
X. Ming (University of Medicine & Dentistry of New Jersey), PI

Elucidating the Role of miRNA Dysregulation in Schizophrenia and Bipolar Disorder
NIH/NIMH R01MH070366 04/07–03/12
L. Brzustowicz (Rutgers University, Genetics), PI

The Genetics of Female Reproductive Aging
NIH/NICHD R03HD051743 05/07–04/10
T. Matise (Rutgers University, Genetics), PI

NHGRI PAGE Coordinating Center
NIH/NHGRI & NIMH U01HG004801 07/08–05/13
T. Matise (Rutgers University, Genetics), PI

Developing Treatment, Treatment Validation & Treatment Scope
in the Setting of an Autism Clinical Trial
Autism Spectrum Disorder Research Program, DoD W81XWH-08-1-0730 10/08–09/11
S. Novotny (Robert Wood Johnson Medical School), PI

Exploring Genetic Influences on Alcohol Use using Novel Statistical Methods
NIH/NIAAA K01AA017473 07/09–06/14
J. Buckman (Rutgers University, Alcohol Studies), PI

Behavioral and Genetic Biomarker Development for Autism and Related Disorders
NIH/NIMH RC1MH088288 09/09–08/11
L. Brzustowicz (Rutgers University, Genetics), PI

Genetic, Behavioral, and Psychosocial Factors Linking Child Maltreatment to Health
NIH/Office of the Director R01HD072581 09/11–08/14
C.S. Widom (John Jay College of Criminal Justice), PI
L. Brzustowicz (Rutgers University, Genetics), PI

The Center for Genomic Studies on Mental Disorders
NIH/NIMH U24MH068457 06/13–02/25
J. Tischfield & L. Brzustowicz (Rutgers University, Genetics), MPIs

Piloting Electrophysiologic Biomarkers for ASD risk in Premature and Low Birth Weight Infants
Electrophysiological Markers for Risk of ASD in Preterm and Low Birth Weight Infants
NJ Governor's Council for Medical Research and Treatment of Autism
CAUT16APL045 & CAUT16APL046 06/15–05/17
B. Zimmerman-Bier (Rutgers University, Pediatrics), PI

Identifying Sequence Variants Related to the Core Behavioral Domains of Autism
New Jersey Governor's Council for Medical Research and Treatment of Autism
CAUT15APL026 06/15–06/17
L. Brzustowicz (Rutgers University, Genetics), PI

Sulforaphane in autism. A Treatment Trial to Confirm Phenotypic Improvement with Sulforaphane
Treatment in a NJ Population of Individuals with Autism
New Jersey Governor's Council for Medical Research and Treatment of Autism
CAUT15APL013 06/15–06/18
W. Johnson (Rutgers University, Neurology), PI

Improving Access to Depression Care in Parkinson's Disease: A Telehealth Approach
Michael J Fox Foundation 07/15–06/18
R. Dobkin (Rutgers University, Psychiatry), PI

Neural Mechanisms Of Perceptual Organization Deficits Across The Schizo-Bipolar Spectrum
NIH/NIMH K01MH108783 09/16–08/20
B. Keane (Rutgers University, Psychiatry), PI

It's About Time: Learning to Recover from Sexual Trauma in the Past
Rutgers Brain Health Institute 01/17–01/18
T. Shors & B. Alderman (Rutgers University, Psychology & Exercise Science), MPIs

Prospective Randomized Study of Case Management Strategies to Increase School Safety
HHS/Office of Minority Health 07/17–06/21
C. Lacy (Rutgers University, School of Communication and Information), PI

PAGE III: Population Architecture using Genomics and Epidemiology
NIH/NHGRI R01HG010297 06/19–03/23
T. Matise (Rutgers University, Genetics) & C. Gignoux (University of Colorado), MPIs

Contribution of Cytomegalovirus to Crohn's Disease Complications and Recurrences
NIH/NIDDK R21SK119989 06/19–05/23
R. Boger (Medical College of Wisconsin), PI

Polygenic Risk Scores for Diverse Populations - Bridging Research and Clinical Care
NIH/NHLBI R01HL151152 08/20–07/24
C. Kooperberg (Fred Hutchinson Cancer Center), C. Gignoux (University of Colorado), & K. North (University of North Carolina), MPIs

Accelerating Genomic Data Sharing and Collaborative Research with Privacy Protection
NIH/NLM R01LM014520 09/23–08/28
E. Ayday (Case Western Reserve University), X. Jiang (University of Texas Health Science Center at Houston), & J. Vaidya (Rutgers University), MPIs

IBD Gene Mapping by Clinical and Population Subset
NIH/NLM U01DK062431 09/22–06/27
S. Brant (Rutgers Robert Wood Johnson Medical School), PI

GRANT REVIEWING

NIH Neurological, Aging, and Musculoskeletal Epidemiology Study Section, 2017, 2018, Charter member 2019–2022
NIH Neurological, Mental and Behavioral Health Study Section, Charter member 2022–2023

External Reviewer, Research Grants Council, Hong Kong, 2006–2020
NIEHS Special Emphasis Panel, SET - V(01), Public Environmental Health Panel, 2009
NIH/SREA NICHD reviewer, 2014
NHGRI ZHG1 HGR-P M2 1, IGNITE Coordinating Center reviewer, 2016
NIH Special Emphasis Panel, Environmental Influences on Child Health Outcomes (ECHO) Data Analysis Center, 2016
NIA Special Emphasis Panel, Late Onset of Alzheimer's Disease Family Based Study, 2017
NCI Special Emphasis Panel, Participant Engagement and Cancer Genome Sequencing Centers, 2020

EDITORSHIPS

Associate Editor, *STAT*, the ISI Journal for the Rapid Dissemination of Statistics Research
Member, Editorial Board of Academic Editors, *PeerJ*

UNIVERSITY AND MAJOR DEPARTMENTAL COMMITTEES

Proposal Committee and Governing Board,
Rutgers Biostatistics and Epidemiology Services Center (RUBIES), 2014–2016
School of Arts and Sciences Advisory Committee for Appointments and Promotions, 2019–2021
University Senate, 2019–2022
Data Science Undergraduate Programs Development Working Group 2020–2022

School of Arts and Sciences Curriculum Committee 2022–
School of Arts and Sciences Strategic Planning Process Data Collection & Analysis Committee 2023–2024
Chair, Undergraduate Data Science Program Committee 2023–

Seminar Chair, Statistics, 2000–2001, 2016–2017
Junior Position Search Committee, Statistics, 2007–2008, 2009–2010
Senior Position Search Committee, Genetics, 2008–2009
Junior Position Search Committee, Statistics with Proteomics, 2014–2015, 2015–2016 (Multiple Positions)
Departmental Peer Evaluation Committee, 2015–2016, 2016–2017, 2023–2024
Chair, Department Remote Teaching Committee, 2020–2021
Chair, Teaching Position Search Committee, Statistics, 2021, 2023

JOURNAL ARTICLES (REFEREED)

[1] **S. G. Buyske**. Lie sphere transformations and the focal sets of certain taut immersions. *Transactions of the American Mathematical Society*, 311(1):117–133, 1989. http://dx.doi.org/10.1090/S0002-9947-1989-0965743-X.

[2] **S. G. Buyske**. An algebraic representation of the affine Bäcklund transformation. *Geometriae Dedicata*, 44(1):7–16, 1992. http://dx.doi.org/10.1007/BF00147741.

[3] **S. G. Buyske**. Famous non-mathematicians. *American Mathematical Monthly*, 100:845–847, 1993. http://www.jstor.org/stable/2324658.

[4] **S. G. Buyske**. Bäcklund transformations of linear Weingarten surfaces in Minkowski three-space. *Journal of Mathematical Physics*, 35(9):4719–4724, 1994. http://dx.doi.org/10.1063/1.530809.

[5] **S. G. Buyske**. Geometric aspects of Bäcklund transformations of Weingarten submanifolds. *Pacific Journal of Mathematics*, 166(2):213–223, 1994. http://dx.doi.org/10.2140/pjm.1994.166.213.

[6] **S. G. Buyske**. Student communication in the mathematics classroom. *Primus*, V:23–32, 1995. http://dx.doi.org/10.1080/10511979508965769.

[7] D. Ogunyemi, U. Jackson, **S. Buyske** & A. Risk. Clinical and pathologic correlates of stillbirths in a single institution. *Acta Obstetricia et Gynecologica Scandinavica*, 77(7):722–728, 1998. PMID:9740519.

[8] D. Ogunyemi & **S. Buskye [sic]**. Prenatal diagnosis of fetal anomalies in a regional tertiary center: the role of a maternal fetal medicine unit–a review of 6,877 deliveries. *Journal of Maternal-Fetal Medicine*, 9(4):219–223, 2000. PMID:11048832.

[9] **S. Buyske**, R. Fagerstrom & Z. Ying. A class of weighted log-rank tests for survival data when the event is rare. *Journal of the American Statistical Association*, 95(449):249–258, 2000. http://dx.doi.org/10.1080/01621459.2000.10473918.

[10] H. R. White, V. Johnson & **S. Buyske**. Parental modeling and parenting behavior effects on offspring alcohol and cigarette use. A growth curve analysis. *Journal of Substance Abuse*, 12(3):287–310, 2000. PMID:11367605.

[11] H. R. White, M. E. Bates & **S. Buyske**. Adolescence-limited versus persistent delinquency: extending Moffitt's hypothesis into adulthood. *Journal of Abnormal Psychology*, 110(4):600–609, 2001. PMID:11727949.

[12] P. Bickel, **S. Buyske**, H. Chang & Z. Ying. On maximizing item information and matching difficulty with ability. *Psychometrika*, 66(1):69–77, 2001. http://dx.doi.org/10.1007/BF02295733.

[13] T. C. Matise, C. J. Porter, **S. Buyske**, A. J. Cuttichia, E. P. Sulman & P. S. White. Systematic evaluation of map quality: human chromosome 22. *American Journal of Human Genetics*, 70(6):1398–1410, 2002. PMID:11992248.

[14] A. Walter & **S. Buyske**. The Westermarck effect and early childhood cosocialization: sex differences in inbreeding avoidance. *British Journal of Developmental Psychology*, 21:353–365, 2003. http://dx.doi.org/10.1348/026151003322277748.

[15] T. C. Matise, R. Sachidanandam, A. G. Clark, L. Kruglyak, E. Wijsman, J. Kakol, **S. Buyske**, B. Chui, P. Cohen, C. de Toma, M. Ehm, S. Glanowski, C. He, J. Heil, K. Markianos, I. McMullen, M. A. Pericak-Vance, A. Silbergleit, L. Stein, M. Wagner, A. F. Wilson, J. D. Winick, E. S. Winn-Deen, C. T. Yamashiro, H. M. Cann, E. Lai & A. L. Holden. A 3.9-centiMorgan-resolution human single-nucleotide polymorphism linkage map and screening set. *American Journal of Human Genetics*, 73(2):271–284, 2003. PMID:12844283.

[16] W. G. Johnson, E. S. Stenroos, J. R. Spychala, S. Chatkupt, S. X. Ming & **S. Buyske**. New 19 bp deletion polymorphism in intron-1 of dihydrofolate reductase (dhfr): a risk factor for spina bifida acting in mothers during pregnancy? *American Journal of Medical Genetics A*, 124A(4):339–345, 2004. PMID:14735580.

[17] D. Kim, T. Kim, T. Walsh, Y. Kobayashi, T. Matise, **S. Buyske** & A. Gabriel. Widespread RNA editing of embedded Alu elements in the human transcriptome. *Genome Research*, 14:1719–1725, 2004. PMID:15342557.

[18] W. G. Johnson, T. O. Scholl, J. R. Spychala, **S. Buyske**, E. S. Stenroos & X. Chen. Common dihydrofolate reductase 19-base pair deletion allele: a novel risk factor for preterm delivery. *American Journal of Clinical Nutrition*, 81(3):664–668, 2005. PMID:15755837.

[19] H. J. Vernon, C. Osborne, E. G. Tzortzaki, M. Yang, J. Chen, S. R. Rittling, D. T. Denhardt, **S. Buyske**, S. B. Bledsoe, A. P. Evan, L. Fairbanks, H. A. Simmonds, J. A. Tischfield & A. Sahota. Aprt/Opn double knockout mice: osteopontin is a modifier of kidney stone disease severity. *Kidney International*, 68(3):938–947, 2005. PMID:16105024.

[20] B. Xu, N. Wratten, E. I. Charych, **S. Buyske**, B. L. Firestein & L. M. Brzustowicz. Increased expression in dorsolateral prefrontal cortex of CAPON in schizophrenia and bipolar disorder. *PLoS Medicine*, 2(10):e263, 2005. PMID:16146415.

[21] **S. Buyske**, M. E. Bates, N. Gharani, T. C. Matise, J. A. Tischfield & P. Manowitz. Cognitive traits link to human chromosomal regions. *Behavior Genetics*, 36(1):65–76, 2006. PMID:16341908.

[22] A. L. Glass, A. Lian & **S. Buyske**. Retrieval independence between parts and wholes in successive recognition tasks. *Quarterly Journal of Experimental Psychology*, 59(1):136–149, 2006. PMID:16556563.

[23] **S. Buyske**, T. Williams, A. Mars, E. Stenroos, S. Ming, R. Wang, M. Sreenath, M. Factura, C. Reddy, G. Lambert & W. Johnson. Analysis of case-parent trios at a locus with a deletion allele: association of GSTM1 with autism. *BMC Genetics*, 7(1):8, 2006. PMID:16472391.

[24] S. Jean, C. Kasinathan, **S. Buyske** & P. Manowitz. Ethanol decreases rat hepatic arylsulfatase A activity and protein levels. *Alcoholism: Clinical and Experimental Research*, 30:1950–1955, 2006. PMID:17067361.

[25] A. L. Hassett, D. C. Radvanski, E. G. Vaschillo, B. Vaschillo, L. H. Sigal, M. K. Karavidas, **S. Buyske** & P. M. Lehrer. A pilot study of the efficacy of heart rate variability (HRV) biofeedback in patients with fibromyalgia. *Applied Psychophysiology and Biofeedback*, 32(1):1–10, 2007. PMID:17219062.

[26] M. K. Karavidas, P. M. Lehrer, E. Vaschillo, B. Vaschillo, H. Marin, **S. Buyske**, I. Malinovsky, D. Radvanski & A. Hassett. Preliminary results of an open label study of heart rate variability biofeedback for the treatment of major depression. *Applied Psychophysiology and Biofeedback*, 32(1):19–30, 2007. PMID:17333315.

[27] T. A. Williams, A. E. Mars, **S. G. Buyske**, E. S. Stenroos, R. Wang, M. F. Factura-Santiago, G. H. Lambert & W. G. Johnson. Risk of autistic disorder in affected offspring of mothers with a glutathione S-transferase P1 haplotype. *Archives of Pediatrics & Adolescent Medicine*, 161(4):356–361, 2007. PMID:17404132.

[28] T. C. Matise, F. Chen, W. Chen, F. M. D. L. Vega, M. Hansen, C. He, F. C. L. Hyland, G. C. Kennedy, X. Kong, S. S. Murray, J. S. Ziegle, W. C. L. Stewart & **S. Buyske**. A second-generation combined linkage physical map of the human genome. *Genome Research*, 17(12):1783–1786, 2007. PMID:17989245.

[29] A. Cohen, H. B. Sackrowitz, M. Xu & **S. Buyske**. A family of Bayes multiple testing procedures. *Biometrika*, 95(2):295–305, 2008. http://dx.doi.org/10.1093/biomet/asn013.

[30] S. L. Boone & **S. Buyske**. A test of racial conceptualization between African Americans and indigenous Africans. *Social Identities*, 14(3):313–331, 2008. http://dx.doi.org/10.1080/13504630802088136.

[31] A. L. Hassett, D. C. Radvanski, **S. Buyske**, S. V. Savage, M. Gara, J. I. Escobar & L. H. Sigal. Role of psychiatric comorbidity in chronic Lyme disease. *Arthritis and Rheumatism*, 59(12):1742–1749, 2008. PMID:19035409.

[32] A. L. Hassett, L. E. Simonelli, D. C. Radvanski, **S. Buyske**, S. V. Savage & L. H. Sigal. The relationship between affect balance style and clinical outcomes in fibromyalgia. *Arthritis and Rheumatism*, 59(6):833–840, 2008. PMID:18512724.

[33] **S. Buyske**. Maternal genotype effects can alias case genotype effects in case-control studies. *European Journal of Human Genetics*, 16(7):783–785, 2008. PMID:18398431.

[34] A. L. Hassett, T. Li, **S. Buyske**, S. V. Savage & M. A. M. Gignac. The multi-faceted assessment of independence in patients with rheumatoid arthritis: preliminary validation from the ATTAIN study. *Current Medical Research and Opinion*, 24(5):1443–1453, 2008. PMID:18402714.

[35] A. L. Hassett, R. Maclean, C. Peterson, M. R. Stuart, **S. Buyske**, N. Park, S. V. Savage, T. Li & M. E. P. Seligman. The observational evaluation of subjective well-being in patients with rheumatoid arthritis. *Applied Psychology: Health and Well-Being*, 1(1):46–61, 2009. http://dx.doi.org/10.1111/j.1758-0854.2008.01002.x.

[36] C. Chen, G. Yang, **S. Buyske**, T. Matise, S. J. Finch & D. Gordon. Transmission disequilibrium test power and sample size in the presence of locus heterogeneity. *Statistical Applications in Genetics and Molecular Biology*, 8(1):Article 44, 2009. PMID:19883370.

[37] **S. Buyske**, G. Yang, T. C. Matise & D. Gordon. When a case is not a case: effects of phenotype misclassification on power and sample size requirements for the transmission disequilibrium test with affected child trios. *Human Heredity*, 67(4):287–292, 2009. PMID:19172087.

[38] M. Menza, R. D. Dobkin, H. Marin, M. H. Mark, M. Gara, **S. Buyske**, K. Bienfait & A. Dicke. A controlled trial of antidepressants in patients with Parkinson disease and depression. *Neurology*, 72(10):886–892, 2009. PMID:19092112.

[39] N. S. Wratten, H. Memoli, Y. Huang, A. M. Dulencin, P. G. Matteson, M. A. Cornacchia, M. A. Azaro, J. Messenger, J. E. Hayter, A. S. Bassett, **S. Buyske**, J. H. Millonig, V. J. Vieland & L. M. Brzustowicz. Identification of a schizophrenia-associated functional noncoding variant in NOS1AP. *American Journal of Psychiatry*, 166(4):434–441, 2009. PMID:19255043.

[40] W. G. Johnson, **S. Buyske**, A. E. Mars, M. Sreenath, E. S. Stenroos, T. A. Williams, R. Stein & G. H. Lambert. HLA-DR4 as a risk allele for autism acting in mothers of probands possibly during pregnancy. *Archives of Pediatrics & Adolescent Medicine*, 163(6):542–546, 2009. PMID:19487610.

[41] M. Menza, R. D. Dobkin, H. Marin, M. H. Mark, M. Gara, **S. Buyske**, K. Bienfait & A. Dicke. The impact of treatment of depression on quality of life, disability and relapse in patients with Parkinson's disease. *Movement Disorders*, 24(9):1325–1332, 2009. PMID:19412944.

[42] A. L. Hassett, D. C. Radvanski, **S. Buyske**, S. V. Savage & L. H. Sigal. Psychiatric comorbidity and other psychological factors in patients with "chronic Lyme disease". *American Journal of Medicine*, 122(9):843–850, 2009. PMID:19699380.

[43] X. Ming, W. G. Johnson, E. S. Stenroos, A. Mars, G. H. Lambert & **S. Buyske**. Genetic variant of glutathione peroxidase 1 in autism. *Brain Development*, 32(2):105–109, 2010. PMID:19195803.

[44] N. M. Hadzimichalis, M. L. Previtera, M. P. Moreau, B. Li, G. H. Lee, A. M. Dulencin, P. G. Matteson, **S. Buyske**, J. H. Millonig, L. M. Brzustowicz & B. L. Firestein. NOS1AP protein levels are altered in BA46 and cerebellum of patients with schizophrenia. *Schizophrenia Research*, 124(1-3):248–250, 2010. PMID:20605702.

[45] S. Thakker-Varia, Y. Y. Jean, P. Parikh, C. F. Sizer, J. Jernstedt Ayer, A. Parikh, T. M. Hyde, **S. Buyske** & J. Alder. The neuropeptide VGF is reduced in human bipolar postmortem brain and contributes to some of the behavioral and molecular effects of lithium. *Journal of Neuroscience*, 30(28):9368–9380, 2010. PMID:20631166.

[46] M. P. Moreau, S. E. Bruse, R. David-Rus, **S. Buyske** & L. M. Brzustowicz. Altered microRNA expression profiles in postmortem brain samples from individuals with schizophrenia and bipolar disorder. *Biological Psychiatry*, 69(2):188–193, 2011. PMID:21183010.

[47] C. He, D. E. Weeks, **S. Buyske**, G. R. Abecasis, W. C. Stewart, T. C. Matise & Enhanced Map Consortium. Enhanced genetic maps from family-based disease studies: population-specific comparisons. *BMC Medical Genetics*, 12:15, 2011. PMID:21247494.

[48] S. A. Pendergrass, K. Brown-Gentry, S. M. Dudek, E. S. Torstenson, J. L. Ambite, C. L. Avery, **S. Buyske**, C. Cai, M. D. Fesinmeyer, C. Haiman, G. Heiss, L. A. Hindorff, C.-N. Hsu, R. D. Jackson, C. Kooperberg, L. Le Marchand, Y. Lin, T. C. Matise, L. Moreland, K. Monroe, A. P. Reiner, R. Wallace, L. R. Wilkens, D. C. Crawford & M. D. Ritchie. The use of phenome-wide association studies (PheWAS) for exploration of novel genotype-phenotype relationships and pleiotropy discovery. *Genetic Epidemiology*, 35(5):410–422, 2011. PMID:21594894.

[49] L. Dumitrescu, C. L. Carty, K. Taylor, F. R. Schumacher, L. A. Hindorff, J. L. Ambite, G. Anderson, L. G. Best, K. Brown-Gentry, P. Bůžková, C. S. Carlson, B. Cochran, S. A. Cole, R. B. Devereux, D. Duggan, C. B. Eaton, M. Fornage, N. Franceschini, J. Haessler, B. V. Howard, K. C. Johnson, S. Laston, L. N. Kolonel, E. T. Lee, J. W. MacCluer, T. A. Manolio, S. A. Pendergrass, M. Quibrera, R. V. Shohet, L. R. Wilkens, C. A. Haiman, L. Le Marchand, **S. Buyske**, C. Kooperberg, K. E. North & D. C. Crawford. Genetic determinants of lipid traits in diverse populations from the Population Architecture using Genomics and Epidemiology (PAGE) study. *PLoS Genetics*, 7(6):e1002138, 2011. PMID:21738485.

[50] T. C. Matise, J. L. Ambite, **S. Buyske**, C. S. Carlson, S. A. Cole, D. C. Crawford, C. A. Haiman, G. Heiss, C. Kooperberg, L. L. Marchand, T. A. Manolio, K. E. North, U. Peters, M. D. Ritchie, L. A. Hindorff, J. L. Haines & the PAGE Study. The next PAGE in understanding complex traits: design for the analysis of Population Architecture using Genetics and Epidemiology (PAGE) study. *American Journal of Epidemiology*, 174(7):849–859, 2011. PMID:21836165.

[51] P. P. Katz, D. C. Radvanski, D. Allen, **S. Buyske**, S. Schiff, A. Nadkarni, L. Rosenblatt, R. Maclean & A. L. Hassett. Development and validation of a short form of the valued life activities disability questionnaire for rheumatoid arthritis. *Arthritis Care & Research*, 63(12):1664–1671, 2011. PMID:21905253.

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SPECIAL RUTGERS PRESENTATIONS

"Application of Statistical Methods to Biological Problems,"
Interdisciplinary Quantitative Biology Boot Camp, Jan 2015

"A Small Sample of Statistics,"
Research Experience for Undergraduates (REU) Seminar, July 2015

"Practical Complications of Statistical Genetics at Scale,"
Advances in Computational and Data Science for Investigative Discovery in Biology and Medicine, Oct 2015

"Statistical Analysis Workshop: Analysis of Tumor Profiling Data,"
Interdisciplinary Quantitative Biology Boot Camp, Jan 2016

"DIMACS REU Panel on Graduate School," July 2017

"Professor Panel," Data Science Club, February 2022

PRESENTATIONS

"Focal sets of taut submanifolds," Workshop on Surfaces, Submanifolds, and their Applications, University of Leeds, May 1990.

"An algebraic representation of the affine Bäcklund transformation," Lehigh Geometry and Topology Conference, Bethlehem, PA, May 1991.

"Geometric aspects of Bäcklund transformations and Weingarten submanifolds," Meeting of the AMS, Bethlehem, PA, April 1992.

Leader, NECUSE Workshop Session on Using Writing to Teach Mathematics, Worcester, MA, September 1994.

"Online calibration of items in the 2PL model," Educational Testing Service, Princeton, NJ, June 1997.

"Item Response Theory and Sequential c-Optimal Design," New Developments and Applications in Experimental Design, Joint Summer Research Conferences in the Mathematical Sciences, Seattle, WA, July 1997.

"Online calibration in computerized adaptive testing," Statistics Research Department Seminar at Bell Labs, September 1997.

"Online calibration in computerized adaptive testing," Rutgers University Statistics Department Seminar, March 1998.

"A class of G^ρ-type weighted log-rank tests for survival data when the event is rare," Spring Meeting of the International Biometric Society's Eastern North American Region, Pittsburgh, March 1998.

"Optimal design for item calibration in computerized adaptive testing: the 3PL case," Annual Meeting of the National Council on Measurement in Education, San Diego, April 1998.

Panelist, "New PhD Roundtable," Psychometric Society, Lawrence, KS, June 1999.

"Modeling developmental trajectories using latent classes," Spring Meeting of the International Biometric Society's Eastern North American Region, Chicago, March 2000.

"Mixed mode latent class regression," Mixtures 2001, Hamburg, Germany, July 2001.

"Estimating mixing," Williams College Mathematics and Statistics Department Class of 1960 Colloquium, October 2001.

"Phenotypic dissection of complex behavioral traits," Joint Statistics Meetings, New York, August 2002.

"Phenotypic Item Clustering to Find Simpler Inheritance Patterns," International Genetic Epidemiology Society, Redondo Beach, California, November 2003.

"Multivariate Quantitative Trait Locus Regression Mapping," American Society of Human Genetics, Los Angeles, November 2003.

"Two approaches to multivariate phenotypes in statistical genetics," Rutgers Statistics Department Seminar, November, 2003.

"Regression-based Multivariate Quantitative Trait Locus Mapping," Joint Statistical Meetings, Toronto, August 2004.

"Item Calibration in Computerized Adaptive Testing Using Minimal Information Loss," Joint Statistical Meetings, Minneapolis, August 2005.

"Fine linkage mapping of a cognitive trait to chromosome 14," American Society of Human Genetics, New Orleans, October 2006.

"When a Case is Not a Case: Power Loss for the TDT with Misdiagnosed Cases," International Genetic Epidemiology Society, Tampa Bay, Florida, November 2006.

"When a case is not a case: effects of phenotype misclassification on the power of the transmission disequilibrium test for affected child trios," American Society of Human Genetics, Philadelphia, November 2008.

"Evaluation of the Metabochip Genotyping Array in African Americans and Implications for Fine Mapping of GWAS-Identified Loci: The PAGE Study," Columbia University Seminar in Genetic Epidemiology, October 2011.

"Use and performance of the Metabochip Genotyping Array in African Americans: the PAGE Study," Platform Presentation. International Congress of Human Genetics, Montreal, October 2011.

"Genome Wide Association Study for Maternal Effects in Autism," Genetics of Common Diseases, Potomac, MD, September 2012.

"Designs for Item Calibration in Computerized Adaptive Testing," Educational Statistics and Measurement Colloquium, Rutgers University, New Brunswick, NJ, February 2013.

"Conducting Large-Scale Imputation Studies on the Cloud," American Society of Human Genetics, Boston, MA, October 2013.

"Identifying Rare Variants in Linkage Regions through Pedigree-Based Conditional Linkage Analysis," Genomics of Common Diseases, Potomac, MD, September 2014.

"Short course: Topics in Advanced Experimental Design," ASA Nonclinical Biostatistics Conference, Piscataway, NJ, June 2017

COURSES TAUGHT

Statistics 295: Data Wrangling and Management with R (originated)
Statistics 365: Bayesian Data Analysis (originated)
Statistics 401: Basic Statistics for Research
Statistics 490: Introduction to Experimental Design
Statistics 590: Design of Experiments
Statistics 591: Advanced Design of Experiments
Statistics 960: Special Topics: Introduction to Statistical Genetics (originated)

Masters in Data Science 597: Data Wrangling and Husbandry (originated)

PhD Advisees

Sai Li (jointly with Cun-Hui Zhang), Statistics, 2018
Sheida Hayati (jointly with Antonina Mitrofanova), Biomedical Informatics, 2018

PhD Dissertation Committees

Jun Zhao, Statistics, 2001
Xiaolan Song, Statistics, 2003
Wesley Thompson, Statistics, 2004
Chunsheng He, Microbiology and Molecular Genetics, 2007
Shannon Bruse, Microbiology and Molecular Genetics, 2008
Pilar Garavito, Interdisciplinary Program in Neuroscience and Microbiology and Molecular Genetics, 2009
Alejandro Nató, Microbiology and Molecular Genetics, 2011
Anthony Musolf, Microbiology and Molecular Genetics, 2014
Huijuan Li, Statistics, 2015
William Manley, Cell and Developmental Biology, 2016
Lisheng Zhou, Microbiology and Molecular Genetics, 2017
Ruijun Ma, Statistics, 2018
Liwei Wang, Statistics, 2019

Undergraduate Honors Project Advisee

Yongqi Chen, 2022–2023

Undergraduate Summer Research Advisee

Michael Gleyzer, 2019

Professional Associations

American Statistical Association
International Biometric Society (ENAR)
American Society of Human Genetics
International Genetic Epidemiology Society
American Association for the Advancement of Science
American Association of University Professors/American Federation of Teachers