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Education:

1976	B.A.	Princeton University (Mathematics - Magna cum laude)
1978	M.S.	Cornell University (Mathematics)
1981	Ph.D.	Cornell University (Mathematical Statistics)

Academic appointments:

1980- 1983	Assistant Professor, Department of Statistics, Rutgers University/New Brunswick.
1983 - 1988	Assistant Professor, Department of Mathematics & Statistics, University of Massachusetts/Amherst.
1986 - 1988	Visiting Assistant Professor, Department of Statistics, Carnegie-Mellon University
1988 - 1993	Assistant Professor, Department of Biostatistics, Harvard School of Public Health.
1988 - 1993	Assistant Professor, Department of Health Care Policy, Harvard Medical School.
1993 - 1994	Associate Professor, Department of Biostatistics, Harvard School of Public Health.
1993 - 1994	Associate Professor, Department of Health Care Policy, Harvard Medical School.
1995 - 1999	Associate Professor (tenured), Department of Community Health .
1999 - 2011	Professor, Department of Community Health
2006 - 2011	Head, Biostatistics Section, Department of Community Health.
2011 - Present	Professor, Department of Biostatistics
1995 - Present	Director, Center for Statistical Sciences .
2011 - 2017	Chair, Department of Biostatistics
2018 Jan-June	Interim Chair, Department of Biostatistics

Honors:

1976	Phi Beta Kappa
1986 - 1988	National Research Service Award, National Institute of Mental Health.
1997	Fellow, Association for Health Services Research.
1998	Fellow, American Statistical Association
2003 (June)	Spinoza Visiting Professor, Academic Medical Center, University of Amsterdam,
2015	Long-Term Excellence Award, Health Policy Statistics Section, Amer. Stat. Assoc.
2018	Marvin Zelen Leadership Award in Statistical Science, Department of Biostatistics, Harvard School of Public Health.
2018	Honorary Fellow, Society for Breast MRI
2019	Mosteller Statistician of the Year Award, American Statistical Association, Boston Chapter

Professional positions and activities:

a. Research

1986 - 1988	Program in Psychiatric Statistics, Carnegie-Mellon University and Western Psychiatric Institute and Clinic, University of Pittsburgh.
1988 - 1996	Group Statistician, Radiology Diagnostic Oncology Group (RDOG).
1989 - 1990	Consultant, Division of Mental Health, Global Program on AIDS, WHO.
1989 - 1993	Section Head, Neurology, Statistical and Data Analysis Ctr, AIDS Clinical Trials Group.
1991 - 1995	Consultant, Agence Nationale pour le Development de l'Evaluation Medicale, France.
1999 – 2013	Network Statistician, American College of Radiology Imaging Network (ACRIN).
2013 - Present	Group Statistician, ECOG-ACRIN Cancer Research Group

b.1. National committees

2001 – 2004	Member, Immunization Safety Review Committee, Institute of Medicine,
2006 - 2010	Member, Committee on Applied and Theoretical Statistics, National Academies
2007 - 2009	Co-Chair, Committee on Identifying the Needs of the Forensic Sciences Community, National Academies
2008 –2010	Member, Committee to Study Engineering Aviation Security Environments: False Positives from Explosive Detection System, National Academies
2009	Member, Committee on Comparative Effectiveness Research Prioritization, Institute of Medicine
2011	Scientific Standards for Studies on Reduced Risk Tobacco Products, Institute of Medicine
2001 - 2014	Member, Board on Mathematical Sciences and their Applications, National Academies
2012 - 2018	Member, Committee on National Statistics, National Academies
2012 - 2017	Chair, Committee on Applied and Theoretical Statistics, National Academies
2013 – 2017	Member, Committee to Evaluate the Department of Veterans Affairs Mental Health Services, Institute of Medicine

2017 – 2019   Member, Committee on Reproducibility and Replicability in Science, National Academies

b2. Review and advisory panels

1990 - Present   Member, site visits and review panels, National Cancer Institute

1990 - Present   Member, site visits and review panels, National Institute of Mental Health

1994 - Present   Special review panels, Agency for Health Care Policy Research /AHRQ

1994 - 1998   Member, HSDG Study Section, Agency for Health Care Policy Research

1996- 2000   Member, Data Safety and Monitoring Board, VA Cooperative Studies in Health Services.

1997- 2003   Consultant/Ad hoc Panel Member, Center for Devices & Radiological Health, Food & Drug Administration.

1997- 2003   Member, Commission on Technology Assessment, American College of Radiology.

1998   Member, NCI Screening and Early Detection Advisory Task Force.

1998- 2002   Member, Data Safety and Monitoring Board, NINDS

1999 – 2004   Member, Technical Expert Panels, HCFA/CMS

2000, 2005   Chair, Special Review Panel for Cancer Intervention and Surveillance Network (CISNET) applications, NCI.

2003   May   Member, American College of Radiology Forum on The Future Quality of Medical Imaging.

2006   June   Member, BMRD and Oncology study sections, NIH

2006   Reviewer, National Coordinating Center for Health Technology Assessment, UK

2007   Member, Development and Discovery P01 Special Emphasis Panel, NCI

2007-2008   Member, Institutional Clinical Translational Science Award (CTSA) Center Special Emphasis Panel (NIH)

2007, 2010, 2011   Member, In Vivo Cellular and Molecular Imaging (ICMIC) Centers, Special Emphasis Panel, NCI

2009, 2020   Chair, Outside Review Committee of CISNET

2010   Chair, Accelerating Adoption of CER Results, Special Emphasis Panel, NIH

2011   Member, Technical Evaluation Panel, Cancer Prevention Agent Development Program: Early Phase Clinical Trials, NCI

2011 – 2013   Chair, DSMB for Back Pain Outcomes using Longitudinal Data (BOLD) Lumbar Epidural Steroid Injections for Spinal Stenosis (LESS) trial.

2011 – 2017   Member, DSMB for Randomized Trial of Behavioral Economic Interventions to Reduce CVD Risk

2012 – 2020   Member, Special Emphasis Review Panels, P01 Applications, NCI

2015, 2018   Chair, Review Panel for the Information Technology Laboratory, National Institute of Standards and Technology

c. Professional leadership

1991- 2006   Co-organizer "Case Studies in Bayesian Statistics", Biannual Workshop Series, Carnegie Mellon University.

1994 - 1995	Program Chair, Section on Health Policy Statistics, American Statistical Association.
1995 Dec	Program Chair, 1995 International Conference on Health Policy Research, Boston, Mass.
1997	Chair, Section on Health Policies Statistics, American Statistical Association.
1997 - 2003	Program and Advisory Committees, International Conference on Health Policy Research.
1997 - 2012	Co-convenor, Diagnostic and Screening Test Methods Working Group, Cochrane Collaboration.
1998 March	Co-chair, Workshop on Health Services and Outcomes Research in Radiology, Bethesda MD, Sponsored by DHHS, NCI, and American College of Radiology
1999 January	Co-Chair, Workshop on Methodological Issues in Clinical Trials in Radiological Screening and Related Computer Modeling. Washington DC, Sponsored by DHHS, NCI, and American College of Radiology
2000 – 2005	Member, Steering Committee, STARD (Standards for Reporting of Diagnostic Accuracy Project.
2002 - 2006	Member, Scientific Program Committee, Eastern Mediterranean. Region of International Biometric Society
2003 – 2012	Member, Steering Group, Cochrane Diagnostic Reviews initiative. Co-Editor of CDR Handbook.
2004 February	Co-chair. NCI-sponsored Image Guided Intervention Trial Design Methods Workshop.
2004 Summer	Member, Clinical Evidence Diagnosis Advisory Group, British Medical Journal.
2005 – 2011	Co-Director. Radiology Society of North America Clinical Trials Methodology Workshop.
2008 – 2018	Member, Quantitative Imaging Biomarkers Alliance (QIBA), Radiology Society of North America (RSNA)
2008 - 2014	Member, Research Development Committee, RSNA.
2010 - Present	Member, Advisory Board, International Conference on Health Policy Statistics
2010 April	Organizing Committee, RSNA/NIBIB Workshop on Comparative Effectiveness Research for diagnostic imaging.
2018 – 2020	Workshop Organizing Committees, National Cancer Policy Forum Workshop, National Academies

d. Editorial positions

1993 - 2005	Co-Editor, *Case Studies in Bayesian Statistics Vol I-VI.* New York: Springer-Verlag.
1995, 1999	Guest-Editor, *Academic Radiology*, special issues.
1996 - Present	Editorial Board Member, *Academic Radiology.*
1996 - 2005	Editorial Board Member, *Statistics in Medicine.*
1999 - 2002	Editorial Board Member, *Medical Decision Making*
1998 – 2013	Founding Editor in Chief: *Health Services and Outcomes Research Methodology.*
2003 - 2013	Editorial Board Member, *Clinical Trials*
2005 - 2010	Associate Editor, *Bayesian Analysis*
2008 - 2011	Associate Editor, *Probability and Statistics Letters*

2008 - 2017	Editor, Diagnostic Test Accuracy Reviews, Cochrane Collaboration
2008 - Present	Associate Editor, *Annals of Applied Statistics*
2011 - 2018	Editorial Board, *Handbook for Health Services Research*
2018 – 2020	Statistical Colsultant, *Radiology*
2016 – Present	Statistical Consultant, *New England Journal of Medicine*

e. Professional society memberships:

American Statistical Association
Institute of Mathematical Statistics
Biometric Society
Society for Research Synthesis Methods (elected)
Radiology Society of North America

f. Research grants and contracts

<u>Current support for grants and contracts as PI</u>.

U10 CA180794 (Dual PIs Gray, Gatsonis)   03/01/14-02/28/25
NCI
ECOG-ACRIN Network Group Statistics and Data Management Center

UG1 CA 189828-01-BRWN1 (Subcontract PI Gatsonis)   08/01/14-07/31/19
NCI/ECOG-ACRIN
ECOG-ACRIN NCORP Research Base - CT

UG1 CA 189828-01-BRWN2 (Subcontract PI Gatsonis)   08/01/14-07/31/19
NCI/ECOG-ACRIN
ECOG-ACRIN NCORP Research Base - CCDR

5UG1 CA189828-03-BRWN4 (Subcontract PI Gatsonis)   08/01/16-07/31/25
EAMRF/NCI
ECOG-ACRIN Tomosynthesis Mammographic Imaging Screening Trial (TMIST) Transition

U01 CA190254 (PI Schnall, CSS Sub PI Gatsonis)   03/20/15-02/29/20
ACR/NCI
ECOG-ACRIN-Based QIN Resource for Advancing Quantitative Cancer imaging in Clinical Trials
ACR (PI Gatsonis)   06/01/15 – 06/30/20
Biostatistics Center for Imaging Dementia-Evidence for Amyloid Scanning (IDEAS) Study

g. Service at Brown University

(Selected appointments**)**

| 1996 – 2003 | Director, Graduate Program, Dept. of Community Health. |
| 1995 – Present | Chair, various Biostatistics faculty search committees |

1996 – 2000	Member, Cancer Center Executive Committee
1997 – 2003	Advisor, Undergraduate Statistics Concentration
1998 – 2003	Member, Center for Gerontology and Health Care Research Executive Committee
1998 – 2001	Member, Committee on Faculty Reappointment and Tenure
2001 – 2004	Member, Faculty Executive Committee
2004 – 2006	Member, Expansion Committee, Program in Public Health
2005 - 2007	Member, Nominations Committee
2006 - 2017	Member, Executive Committee, Program/School of Public Health
2007 – 2008	Chair, Nominations Committee
2011 - Present	Member, University Conflict of Interest Board
2013 – 2016	Member, CCV Steering Committee
2015- Present	Member, Data Governance Committee
2015 - 2017	Member, Data Science Initiative Steering Committee
2018 – Present	Member, Research Computing Advisory Committee

Major research interests:

Bayesian Inference, Biostatistics

Diagnostic Test and Biomarker Evaluation, Radiomics

Comparative Effectiveness Research, Health Services Research

Publications

a. Original manuscripts:

Gatsonis, C.A. Estimation of the posterior density of a location parameter, Ph.D. Thesis, Cornell University, 1981.

Cohen, A., Gatsonis, C.A., Marden, J. Hypothesis testing for marginal probabilities in a 2x2x2 contingency table with conditional independence. *Journal of the American Statistical Association*, 1983; 78: 920-929.

Cohen, A., Gatsonis, C.A., Marden, J. Hypothesis tests and optimality properties in discrete multivariate analysis. In: Karlin, S. et al., eds. *Studies in Econometrics, Time Series and Multivariate Statistics*. New York: Academic Press, 1983: 379-405.

Gatsonis, C.A. Deriving posterior distributions for a location parameter. A decision theoretic approach. *Annals of Statistics*, 1984; 12: 958-970.

Gatsonis, C.A., Hsieh, H.K., Korwar, R. Simple nonparametric tests for a known standard survival based on censored data. *Communications in Stat Theory and Methods*, 1985; 14:2137-2162.

Gatsonis, C.A., MacGibbon, B., Strawderman, W. On the estimation of a restricted normal mean. *Statistics and Probability Letters,* 1987; 6:21-30.

Buonaccorsi, J. and Gatsonis, C.A. Bayesian inference for ratios of coefficients in a linear model. *Biometrics*, 1988; 87-101.

Kovacs, M., Palauskas, S., Gatsonis, C.A., Richards, C. Depressive disorders in childhood. III. A longitudinal study of comorbidity with and risk for conduct disorders. *Journal of Affective Disorders,* 1988; 15:205-217.

Gatsonis, C.A. and Sampson, A. Multiple correlation: Exact power and sample size calculations. *Psychological Bulletin*, 1989; 106:516-524.

Jacobs, R., Simons, A., Manuck, S., Rohay, J., Waldstein, S., Gatsonis, C.A. Assessment of ambulatory mood: Development of an instrument. *Journal of Psychopathology and Behavioral Assessment*, 1989; 11:153-173.

Kovacs, M., Gatsonis, C.A., Palauskas, S., Richards, C. Depressive disorders in childhood. IV. A longitudinal study of comorbidity with and risk of anxiety disorders. *Archives of General Psychiatry*, 1989; 46:776-782.

Byar, D, ..., Gatsonis, C.A., et al. Design considerations for AIDS trials. *New England Journal of Medicine*, 1990; 323:1343-1348.

Gatsonis, C.A. and McNeil, B.J. Collaborative diagnostic evaluation studies: the RDOG experience. *Radiology*, 1990; 175:571-575.

Hollingsworth, C. and Gatsonis, C.A. Sequential sampling plans for green peach aphid on potato. *Journal of Economic Entomology*, 1990; 83:1365-1369.

Kaplan, J., Manuck, S., Gatsonis, C.A. Heart rate and social status among male cynomolgus monkeys housed in disrupted social groupings. *American Journal of Primatology*, 1990.

Needleman, H. and Gatsonis, C.A. Low level lead exposure and the IQ of children: A meta-analysis of

modern studies. *Journal of the American Medical Association*, 1990; 263:673-678.

Rifkin, M. Zerhouni, E., Gatsonis, C.A., Quint, L., Paushter, D., Epstein, J., Walsh, P., McNeil B.J. Comparison of MRI and US in staging early prostate cancer. *New England Journal of Medicine*, 1990; 323:621-626.

Webb, R., Gatsonis, C.A., Zerhouni, E., Heelan, R., Glazer, G., Francis, I., McNeil, B.J. CT and MR imaging in staging non-small cell bronchogenic carcinoma: report of the Radiology Diagnostic Oncology Group. *Radiology*, 1991; 178(3):705-713.

Gatsonis, C.A. and Greenhouse, J. Bayesian analysis of Phase I clinical trials. *Statistics in Medicine*, 1992; 11:1377-1389.

Jacob, R., Shapiro, A., Russel, P., Portser, S., Kruger, A., Gatsonis, C.A. and Ding, Y. Relaxation therapy for hypertension: Setting-specific effects. *Psychosomatic Medicine*, 1992; 54:87-101

McNeil, B., Pedersen, S. and Gatsonis, C.A. Current issues in profiling quality of care. *Inquiry*, 1992; 29:298-307.

Weissman, J., Gatsonis, C.A. and Epstein, A.M. Rates of avoidable hospitalization by insurance status in MA and MD. *Journal of the American Medical Association*, 1992; 17:2388-2394.

Udvarhelyi, I.S., Gatsonis, C.A., Epstein, A.M., Pashos, C.L., Newhouse, J.P. and McNeil, B.J. Acute Myocardial Infarction in the Medicare population: process of care and clinical outcomes. *Journal of the American Medical Association*, 1992; 18:2530-2536.

Fielderman, A., Silvester, G., Gatsonis, C.A., Hoenig, J., Flynn, S. Prognostic significance of flow cytometric DNA analysis and proliferative index in stage I non-small cell lung cancer*. American Review of Respiratory Disease*, 1992; 146:707-710.

Gatsonis, C.A., Normand, S.L., Liu, C. and Morris, C. Geographic variation of procedure utilization: A hierarchical approach. *Medical Care*, 1993; YS54-59.

Haas, J., Weissman, J., Cleary, P., Goldberg, J., Gatsonis, C.A., ..., and Epstein, A. The discussion of preferences for life-sustaining care by persons with AIDS: Predictors of failure in the patient-doctor communication. *Archives of Internal Medicine*. 1993; 153:1241-48

Kovacs, M., Goldstone, D. and Gatsonis, C.A. Suicidal behavior and childhood onset depressive disorders: A longitudinal investigation. *Journal of the American Academy of Child and Adolescent Psychiatry*. 1993 ;32:8-20

Sidtis, J., Gatsonis, C.A., Price, R. et al. A placebo control trial of ZDV in the treatment of AIDS Dementia Complex. *Annals of Neurology*, 1993; 33:343-349.

Ayanian, J., Udvarhelyi, S., Gatsonis, C.A., Pashos, C.L., Epstein, A.E. Racial differences in revascularization after coronary angiography. *Journal of the American Medical Association*, 1993; 269:2642-2646.

Cleary, P., Fowler, J., Weissman, J., Massagli, M., Seage, G., Gatsonis, C.A., Epstein, A. Health related quality of life for persons with AIDS. *Medical Care*, 1993; 31:569-580.

Irwig, L., Tosteson, A., Gatsonis, C.A., et al. Guidelines for meta-analyses evaluating diagnostic tests. *Annals of Internal Medicine*, 1994;120:667-676.

Webb, R., Sarin, M., Zerhouni, E., Heelan, R., Glazer G., and Gatsonis, C.A. Interobserver variability in the CT and MR staging of lung cancer. *Journal of Computed Assisted Tomography*, 1993, 17:841-846.

Ellis, JH, Tempany, C., Sarin, M., Gatsonis, C., Rifkin, M. and McNeil, B. MR imaging and sonography of early

prostatic cancer: Pathologic and imaging features that influence identification and diagnosis. *American Journal of Roentgenology* 1994; 162:865-872.

Kovacs, M. and Gatsonis, C. Secular trends in age at onset of major depressive disorders in childhood. *Journal of Psychiatric Research*, 1994, 28:319-329.

Kovacs, M., Gatsonis, C., Pollock, M. and Parrone, PL. A controlled prospective study of DSM- III adjustment disorder in childhood. *Archives of Geneneal Psychiatry*, 1994; 51:535-541.

Kovacs, M., Akiskal, HS, Gatsonis, C. and Parrone, P. Childhood-onset dysthymic disorder. Clinical features and prospective naturalistic outcome. *Archives of General Psychiatry*, 1994; 51:365-374.

Weissman, J., Makadon H., Seage, G., Massagli, M., Gatsonis, C. et al. Changes in insurance status and access to care for persons with AIDS in the Boston Health Study. *American Journal of Public Health* 1994; 84:1997-2000.

Rutter, C. and Gatsonis, C.A. Regression methods for meta-analysis of diagnostic tests. *Academic Radiology*, 1995;2:S48-S56

Toledano, A. and Gatsonis, C.A. Regression analysis of correlated ROC data. *Academic Radiology*, 1995;2:S30-S36.

Gatsonis, C.A. Random effects models for diagnostic test accuracy. *Academic Radiology*, 1995; 2:S14-S21

Epstein, A., Seage, G., Weissman, J., Cleary, P., Fowler, J., Gatsonis, C., et al. Costs of medical care and out of pocket expenditures for persons with AIDS. *Inquiry* 1995; 32(2): 211-221.

Gatsonis, C.A., Epstein, A.E., Newhouse, J.P. Normand, S-L., and McNeil, B.J. Variations in the utilization of coronary angiography for elderly patient with an acute myocardial infarction. An analysis using hierarchical logistic regression. *Medical Care*, 1995; 33: 625-642.

Colin, C., Toselli, A., Delahaye, F., Ecochard, R., Rabilloud, M., Excoffier, S., Milon, H., Gatsonis, C., Mabriez J.C. et Matillon, Y. Prise en charge de l' infarctus du myocarde dans la region Rhone-Alpes: Existe-t-il une variation des pratiques? *Arch Mal Coeur Vaiss.* , 1995; 88:307-313.

Megibow, A., Zhou,X., Rotterdam, H., Francis, I., Zerhouni E., Balfe D., Weinreb, J., Aisen, A., Kuhlman, J., Heiken, J., Gatsonis, C. and McNeil, B. Pancreatic Adenocarcinoma: CT vs MR imaging in the evaluation of resectability- Report of the Radiology Diagnostic Oncology Group. *Radiology*, 1995; 195:327-332.

Zhou, X and Gatsonis, C.A. A simple method for comparing correlated ROC curves using unbalanced data. *Statistics in Medicine*, 1996; 15:1687-1693.

Toledano, A. and Gatsonis, C.A. Ordinal regression methodology for ROC curves derived from correlated data. *Statistics in Medicine*, 1996; 15:1807-1826.

Zerhouni,E.A., Rutter, C., Hamilton, S.R., Balfe, D.M., Megibow, A.J., Francis, I.R., Mos, A.A., Heiken, J.P., Tempany, C.M., Aisen, A.M., Weinreb, J.C., Gatsonis, C., McNeil, B.J. CT and MR Imaging in the Staging of Colorectal Carcinoma: Report of the Radiology Diagnostic Oncology Group II. *Radiology,* 1996; 200:443-451.

Weissman JS, Cleary PD, Seage GR, Gatsonis C, Haas JS, Chasan-Taber S, Epstein AM. The influence of health-related quality of life and social characteristics on hospital use by patients with AIDS in the Boston Health Study. *Medical Care* 1996 ;34:1037-56

Panicek, D., Gatsonis, C.A. et al. CT and MR imaging in local staging of malignant musculoskeletal neoplasms: Report of the Radiology Diagnostic Oncology Group. *Radiology*, 1997; 202: 237-246.

Seage, G., Gatsonis, C.A. et al. The Boston AIDS survival score (BASS): A multidimensional AIDS severity adjustment. *American Journal of Public Health*, 1997; 87(4): 567-573.

Kovacs, M; Obrosky DS; Gatsonis C; Richards C. First-episode major depressive and dysthymic disorder in childhood: clinical and sociodemographic factors in recovery. *Journal of the American Academy of Child and Adolescent Psychiatry,* 1997; 36:777-84.

Normand, S.L., Glickman, M, Gatsonis, C.A. Statistical methods for profiling providers of medical care. Issues and applications. *Journal of the American Statistical Association*, 1997; 92: 803-814.

Daniels, M. and Gatsonis, C.A. Hierarchical polytomous regression models with applications to health services research. *Statistics in Medicine*. 1997; 16: 2311-2325

Pisano, ED, Fajardo, LL, Tsimikas, J, Sneige N, Frable, WJ, Gatsonis CA, Evans, WP, Tocino I,. McNeil B. Rate of Insufficient Samples for Fine Needle Aspiration for Nonpalpable Breast Lesions in a Multi-center Clinical Trial: RDOG5 Study. *Cancer*, 1998; 82: 679-688.

Bernabei, R., Gambassi, G., Lapane, K., Landi, F., Gatsonis, C., Dunlop, R., Lipsitz, L., Steel, K., Mor, V. Management of Pain in Elderly Patients With Cancer. *Journal of the American Medical Association*, 1998; 279(23), 1877-1882.

Weissman, JS, Haas, JS, Fowler, FJ., Gatsonis C, Massagli, MP., Seage, GR., Cleary P. The stability of preferences for life-sustaining care among persons with AIDS in the Boston Health Study. Toe appear in *Medical Decision Making*, 1999; 19: 16-26.

Jacob, R., Thayer J., Manuck S., Muldoo, M., Tamres L., Williams D., Ding, Y., and Gatsonis, C. Ambulatory blod pressure response and the circumplex model of mood: A four day study. *Psychosomatic Medicine.* 1999; 61: (3) 319-333.

Toledano, A. and Gatsonis, C.A. Missing data in ROC curve analysis. *Biometrics* 1999; 55: (2) 488-496.

Daniels, M. and Gatsonis, C.A. Multilevel Hierarchical Generalized Linear Models with applications to health services research. *Journal of the American Statistical Association*. 1999; 94:29-42.

Hillman, BJ, Gatsonis C, Sullivan DC American College of Radiology Imaging Network: New National Cooperative Group for Conducting Clinical Trials of Medical Imaging Technologies. *Radiology* 1999; 213: (3) 641-645.

Ishwaran, H. and Gatsonis, C. A. A general class of hierarchical ordinal regression models with applications to correlated ROC analysis. *Canadian Journal of Statistics,* 2000; 28, 731-750.

Pisano, ED, Fajardo LL, Caudry D, Sneige N, Frable WJ, Berg WA, Tocino I, Schnitt S, Connolly J, Gatsonis CA, McNeil BJ. Fine Needle Aspiration of Nonpalpable Breast Lesions in a Multicenter Clinical Trial: Results from the Radiologic Diagnostic Oncology Group V. *Radiology* 2001; 219:785-792.

Schneider, E, Leape L, Weissman J, Piana R, Gatsonis C, and Epstein AE. Racial Differences in Cardiac Revascularization Rates: Does "Overuse" Explain Higher Rates among White Patients? *Annals of Internal Medicine*, 2001;135:328-337.

Rutter, CM and Gatsonis, CA. A hierarchical regression approach to meta-analysis of diagnostic test accuracy evaluations. *Statistics in Medicine* 2001, 20: 2865-2884.

Wright, TC, Holinka CF, Ferenczy A, Gatsonis,CA, Mutter GL, Nicosia S, Richart R. Estradiol-induced hyperplasia in endometrial biopsies from women on hormone replacement therapy, *Am J Surg Pathol* 2002; 26(10):1269-75

Bossuyt, PM, Reitsma JB, Bruns DE, Gatsonis,CA, Glasziou PP, Irwig LM, Lijmer JG, Moher D, Rennie D, de Vet HC; Standards for Reporting of Diagnostic Accuracy steering group. Towards complete and accurate reporting of studies of diagnostic accuracy: the STARD initiative, *BMJ.* 2003; 326:41-44

Bossuyt, PM, Reitsma JB, Bruns DE, Gatsonis CA, Glasziou PP, Irwig LM, Lijmer JG, Moher D, Rennie D, de Vet HC; Standards for Reporting of Diagnostic Accuracy steering group. The STARD statement for reporting studies of diagnostic accuracy: explanation and elaboration, *Clin Chem*. 2003 49(1):7-18

Leape, L.L., Weissman, J.M., Schneider, E.C., Piana, R.N., Gatsonis, C, Epstein, A.M., Adherence to Practice Guidelines: The role of specialty society guidelines, *Amer. Heart Jnl*, 2003, 145:19-26

Epstein, AM, Weissman JS, Schneider EC, Gatsonis C, Leape LL, Piana RN.Race and gender disparities in rates of cardiac revascularization: do they reflect appropriate use of procedures or problems in quality of care? *Med Care*. 2003;41(11):1240-55.

Dukic, V. and Gatsonis C. Meta-analysis of diagnostic test accuracy assessment studies with varying number of thresholds. *Biometrics 2003*; 59: 936-946.

Fajardo, LL, Pisano ED, Caudry DJ, Gatsonis CA, Berg WA, Connolly J, Schnitt S, Page DL, McNeil BJ; Radiologist Investigators of the Radiologic Diagnostic Oncology Group V. Stereotactic and sonographic large-core biopsy of nonpalpable breast lesions: results of the Radiologic Diagnostic Oncology Group V study. *Acad Radiol*. 2004;11(3):293-308.

Wahl, RL, Siegel BA, Coleman RE, Gatsonis CA; PET Study Group.Prospective multicenter study of axillary nodal staging by positron emission tomography in breast cancer: a report of the staging breast cancer with PET Study Group. *J Clin Oncol*. 2004; 22(2):277-85.

Bluemke D, Gatsonis C, Chen MH, et al. Magnetic resonance imaging of the breast prior to biopsy. *JAMA,* 2004; 292: 2735-42.

Aberle, DR, Chiles C, Gatsonis C, Hillman BJ, Johnson CD, McClennan BL, Mitchell DG, Pisano ED, Schnall MD, Sorensen AG; American College of Radiology Imaging Network. Imaging and cancer: research strategy of the American College of Radiology Imaging Network. *Radiology*. 2005; 235(3):741-51.

Pisano, ED, Gatsonis CA, Yaffe MJ, Hendrick RE, Tosteson AN, Fryback DG, Bassett LW, Baum JK, Conant EF, Jong RA, Rebner M, D'Orsi CJ. American College of Radiology Imaging Network Digital Mammographic Imaging Screening Trial: Objectives and Methodology. *Radiology*. 2005; 236(2):404-12

Lehman, CD, Blume JD, Weatherall P, Thickman D, Hylton N, Warner E, Pisano E, Schnitt SJ, Gatsonis C, Schnall M, DeAngelis GA, Stomper P, Rosen EL, O'Loughlin M, Harms S, Bluemke DA. Screening women at high risk for breast cancer with mammography and magnetic resonance imaging. *Cancer.* 2005; 103(9):1898-905.

Weissman, JS, Annas CL, Epstein AM, Schneider EC, Clarridge B, Kirle L, Gatsonis C, Feibelmann S, Ridley N. Error reporting and disclosure systems: views from hospital leaders. *JAMA.* 2005; 293(11):1359-66.

Schnall, MD, Blume J, Bluemke DA, Deangelis GA, Debruhl N, Harms S, Heywang-Kobrunner SH, Hylton N, Kuhl CK, Pisano ED, Causer P, Schnitt SJ, Smazal SF, Stelling CB, Lehman C, Weatherall PT, Gatsonis CA. MRI detection of distinct incidental cancer in women with primary breast cancer studied in IBMC 6883. *J Surg Oncol*. 2005; 92(1):32-8.

Lehman, CD, Blume JD, Thickman D, Bluemke DA, Pisano E, Kuhl C, Julian TB, Hylton N, Weatherall P, O'loughlin M, Schnitt SJ, Gatsonis C, Schnall MD. Added cancer yield of MRI in screening the contralateral breast of women recently diagnosed with breast cancer: results from the International

Breast Magnetic Resonance Consortium (IBMC) trial. *J Surg On*col. 2005; 92:9-15; discussion 15-6.

Pisano, ED, <u>Gatsonis</u> C, Hendrick E, Yaffe M, Baum JK, Acharyya S, Conant EF, Fajardo LL, Bassett L, D'Orsi C, Jong R, Rebner M. Diagnostic Performance of Digital versus Film Mammography for Breast-Cancer Screening. *N Engl J Med.* 2005; 353:1773-83.

Amendola, MA, Hricak H, Mitchell DG, Snyder B, Chi DS, Long HJ 3rd, Fiorica JV, <u>Gatsonis</u> C. Utilization of diagnostic studies in the pretreatment evaluation of invasive cervical cancer in the United States: results of intergroup protocol ACRIN 6651/GOG 183. *J Clin Oncol*. 2005 ;23:7454-9.

Hricak H, <u>Gatsonis</u> C, Chi DS, Amendola MA, et al . Role of imaging in pretreatment evaluation of early invasive cervical cancer: results of the intergroup study American College of Radiology Imaging Network 6651-Gynecologic Oncology Group 183. *J Clin Oncol.* 2005; 23:9329-37.

Schnall, MD, Blume J, Bluemke DA, DeAngelis GA, DeBruhl N, Harms S, Heywang-Kobrunner SH, Hylton N, Kuhl CK, Pisano ED, Causer P, Schnitt SJ, Thickman D, Stelling CB, Weatherall PT, Lehman C, <u>Gatsonis</u> CA. Diagnostic architectural and dynamic features at breast MR imaging: multicenter study. *Radiology*. 2006; 238:42-53.

Lehman, C., <u>Gatsonis</u>, C., Kuhl, C., Hendrick, E., Pisano, E., et al   MRI Evaluation of the Contralateral Breast in Women with Recently Diagnosed Breast Cancer. *New England Journal of Medicine* 2007; 356: 1295-303.

Lehman CD, Isaacs C, ….., <u>Gatsonis</u> C. Cancer yield of mammography, MR, and US in high-risk women: prospective multi-institution breast cancer screening study. *Radiology.* 2007; 244(2):381-8.

Hricak H, <u>Gatsonis</u> C, Coakley FV, Snyder B, Reinhold C, Schwartz LH, Woodward PJ, Pannu HK, Amendola M, Mitchell DG. Early invasive cervical cancer: CT and MR imaging in preoperative evaluation - ACRIN/GOG comparative study of diagnostic performance and interobserver variability. Radiology. 2007; 245(2):491-8

Wang F, <u>Gatsonis</u> C. Hierarchical models for ROC curve summary measures: Design and analysis of multi-reader, multi-modality studies of medical tests. *Statistics in Medicine*. 2008; 27(2): 243-56.

Zhou XH, Li S., <u>Gatsonis</u> C. Wilcoxon based group sequential designs for comparison of areas of two correlated ROC curves. *Statistics in Medicine*. 2008; 27(2): 213-23.

Pisano ED, Hendrick RE, ..., <u>Gatsonis</u> CA. Diagnostic accuracy of digital versus film mammography: exploratory analysis of selected population subgroups in DMIST. *Radiology.* 2008;246(2):376-83

Hendrick RE, Cole EB, Pisano ED, Acharyya S, Marques H, Cohen MA, Jong RA, Mawdsley GE, Kanal KM, D'Orsi CJ, Rebner M, <u>Gatsonis</u> C.   Accuracy of soft-copy digital mammography versus that of screen-film mammography according to digital manufacturer: ACRIN DMIST retrospective multireader study. *Radiology*. 2008; 247(1):38-48.

Weissman JS, Schneider EC, Weingart SN, Epstein AM, David-Kasdan J, Feibelmann S, Annas CL, Ridley N, Kirle L<u>, Gatsonis</u> C. Comparing patient-reported hospital adverse events with medical record review: do patients know something that hospitals do not? *Ann Intern Med*. 2008; 149(2):100-8

Schneider E, Rosenthal M, <u>Gatsonis</u> C, Zheng J, Epstein A. Is the Type of Medicare Insurance Associated with Differences in Colorectal Cancer Screening Use and Strategy? *Medical Care* 2008; 46 (9 Suppl 1):S84-90

Shiu S-Y, <u>Gatsonis</u> C. The Predictive Receiver Operating Characteristic Curve for the Joint Assessment of the Positive and Negative Predictive Value. *Philosophical Transactions of the Royal Society, Series A.*

Math Phys Eng Sci 2008; 366(1874):2313-33

Leeflang MM, Deeks JJ, <u>Gatsonis C</u>, Bossuyt PM; Cochrane Diagnostic Test Accuracy Working Group. Systematic reviews of diagnostic test accuracy. *Ann Intern Med. 2008*; 149(12):889-97

Sargent, D, Rubinstein L, Schwartz L, Dancey J, <u>Gatsonis C</u>, Dodd L, and Shankar L. Validation of novel imaging methodologies for use as cancer clinical trial end-points. *European Journal of Cancer* 2009;45(2):290-9.

Yu K., Sabelli A., DeKeukelaere L, Park R., Sindi S, <u>Gatsonis C.</u> and Salomon A. Integrated platform for manual and high-throughput statistical validation of tandem mass spectra. *Proteomics* 2009; *9*, 3115–3125

Nishikawa RM, Acharyya S, <u>Gatsonis C</u>, et al. "Comparison of softcopy and hardcopy reading of full-field digital mammograms: A DMIST reader study". *Radiology 2*009; 251:41-9

Pisano ED, Acharyya S, … and <u>Gatsonis C</u>. Cancer cases from ACRIN digital mammographic imaging screening trial: radiologist analysis with use of a logistic regression model. *Radiology*. 2009; 252 :348-57.

Hendrick RE, Pisano ED, … and <u>Gatsonis C</u>. Comparison of acquisition parameters and breast dose in digital mammography and screen-film   mammography in the American College of Radiology Imaging Network digital mammographic imaging screening trial *Am J Roentgenol*. 2010; 194: 362-9.

Weinstein SP, Hanna LG, <u>Gatsonis C</u>, Schnall MD, Rosen MA, Lehman CD. Frequency of malignancy seen in probably benign lesions at contrast-enhanced breast MR imaging: findings from ACRIN 6667. *Radiology.* 2010; 255(3):731-7

Liu T, <u>Gatsonis CA</u>, Baylin A, Buka SL. Prenatal exposure to cigarette smoke and benign breast disease. *Epidemiology.* 2010;21(5):736-43

Patz EF Jr, Caporaso NE, Massion PP, Hirsch FR, Minna JD, <u>Gatsonis C,</u> Duan F, Adams A, Apgar C, Medina RM, Aberle DR. National Lung Cancer Screening Trial American College of Radiology Imaging Network Specimen Biorepository originating from the Contemporary Screening for the Detection of Lung Cancer Trial (NLST, ACRIN 6654): design, intent, and availability of specimens for validation of lung cancer biomarkers. *J Thorac Onco*l. 2010; 5(10):1502-6

<u>Gatsonis, C.</u> The promise and realities of CER. Statistics in Medicine*, Stat Med.* 2010; 29(19):1977-81

National Lung Screening Trial Research Team. Baseline characteristics of participants in the randomized national lung screening trial. *J Natl Cancer Inst. 2010* ;102:1771-9.

Lowry KP, Lee JM, Kong CY, McMahon PM, Gilmore ME, Cott Chubiz JE, Pisano ED, <u>Gatsonis C</u>, Ryan PD, Ozanne EM, Gazelle GS. Annual screening strategies in BRCA1 and BRCA2 gene mutation carriers: A comparative effectiveness analysis. Cancer. 2011 Sep 20. [Epub ahead of print]

Liu T, <u>Gatsonis CA</u>, Baylin A, Kubzansky LD, Loucks EB, Buka SL. Maternal smoking during pregnancy and anger temperament among adult offspring. *J Psychiatr Res*. 2011 Dec;45(12):1648-54

Buckler AJ, Bresolin L, Dunnick NR, Sullivan DC; Group. A collaborative enterprise for multi-stakeholder participation in the advancement of quantitative imaging. *Radiology.* 2011 Mar;258(3):906-14.

Buckler AJ, Bresolin L, Dunnick NR, Sullivan DC, Aerts HJ, Bendriem B, Bendtsen C, Boellaard R, Boone JM, Cole PE, Conklin JJ, Dorfman GS, Douglas PS, Eidsaunet W, Elsinger C, Frank RA, <u>Gatsonis C</u>, Giger ML, Gupta SN, Gustafson D, Hoekstra OS, Jackson EF, Karam L, Kelloff GJ, Kinahan PE, McLennan G, Miller

CG, Mozley PD, Muller KE, Patt R, Raunig D, Rosen M, Rupani H, Schwartz LH, Siegel BA, Sorensen AG, Wahl RL, Waterton JC, Wolf W, Zahlmann G, Zimmerman B. Quantitative imaging test approval and biomarker qualification: interrelated but distinct activities. *Radiology.* 2011; 259:875-84

The National Lung Screening Trial Research Team. The National Lung Screening Trial: Overview and Study Design. *Radiology* 2011; 258: 243-253

National Lung Screening Trial Research Team. Reduced Lung-Cancer Mortality with Low-Dose Computed Tomographic Screening, *New England Journal of Medicine*. 2011; 365(5): 395-409.

Van den Abbeele AD, Gatsonis C, de Vries DJ, Melenevsky Y, Szot-Barnes A, Yap JT, Godwin AK, Rink L, Huang M, Blevins M, Sicks J, Eisenberg B, Siegel BA . ACRIN 6665/RTOG 0132 phase II trial of neoadjuvant imatinib mesylate for operable malignant gastrointestinal stromal tumor: monitoring with 18F-FDG PET and correlation with genotype and GLUT4 expression. *J Nucl Med*. 2012 Apr;53(4):567-74

Litt HI, Gatsonis C, Snyder B, Singh H, Miller CD, Entrikin DW, Leaming JM, Gavin LJ, Pacella CB, Hollander JE. CT angiography for safe discharge of patients with possible acute coronary syndromes. *New England Journal of Medicine* 2012 Apr 12;366(15):1393-403.

Cole EB, Zhang Z, Marques HS, Nishikawa RM, Hendrick RE, Yaffe MJ, Padungchaichote W, Kuzmiak C, Chayakulkheeree J, Conant EF, Fajardo LL, Baum J, Gatsonis C, Pisano E. Assessing the stand-alone sensitivity of computer-aided detection with cancer cases from the Digital Mammographic Imaging Screening Trial. *Am J Roentgenol.* 2012 Sep;199(3):W392-401.

DeMartini WB, Hanna L, Gatsonis C, Mahoney MC, Lehman CD. Evaluation of tissue sampling methods used for MRI-detected contralateral breast lesions in the American College of Radiology Imaging Network 6667 trial. *Am J Roentgenol*. 2012 Sep;199(3):W386-91.

Johnson CD, Herman BA, Chen MH, Toledano AY, Heiken JP, Dachman AH, Kuo MD, Menias CO, Siewert B, Cheema JI, Obregon R, Fidler JL, Zimmerman P, Horton KM, Coakley KJ, Iyer RB, Hara AK, Halvorsen RA Jr, Casola G, Yee J, Blevins M, Burgart LJ, Limburg PJ, Gatsonis CA The National CT Colonography Trial: assessment of accuracy in participants 65 years of age and older. *Radiology.* 2012 May;263(2):401-8.

Lowry KP, Lee JM, Kong CY, McMahon PM, Gilmore ME, Cott Chubiz JE, Pisano ED, Gatsonis C, Ryan PD, Ozanne EM, Gazelle GS. Annual screening strategies in BRCA1 and BRCA2 gene mutation carriers: a comparative effectiveness analysis. *Cancer.* 2012 Apr 15;118(8):2021-30.

Mahoney MC, Gatsonis C, Hanna L, DeMartini WB, Lehman C. Positive predictive value of BI-RADS MR imaging. Radiology. 2012 Jul;264(1):51-8.

Shiu SY, Gatsonis C On ROC analysis with nonbinary reference standard. Biometrical Journal. 2012 ;54(4):457-80.

Cole EB, Zhang Z, Marques HS, Nishikawa RM, Hendrick RE, Yaffe MJ, Padungchaichote W, Kuzmiak C, Chayakulkheeree J, Conant EF, Fajardo LL, Baum J, Gatsonis C, Pisano E. Assessing the stand-alone sensitivity of computer-aided detection with cancer cases from the Digital Mammographic Imaging Screening Trial. AJR Am J Roentgenol. 2012 Sep;199(3):W392-401.

Li, H, Gatsonis C. Dynamic optimal strategy for monitoring disease recurrence. Sci. China, Mathematics 2012; 55(8): 1565–1582.

Divgi CR, Uzzo RG, Gatsonis C, Bartz R, Treutner S, Yu JQ, Chen D, Carrasquillo JA, Larson S, Bevan P, Russo P. Positron emission tomography/computed tomography identification of clear cell renal cell carcinoma: results from the REDECT trial. J Clin Oncol. 2013 Jan 10;31(2):187-94.

Lu B, Gatsonis C. Efficiency of study designs in diagnostic randomized clinical trials. *Stat Med. 2013* Apr 30;32(9):1451-66.

Li H, Gatsonis C., Sample size estimation for time-dependent receiver operating characteristic. *Stat Med.* 2014 Mar 15;33(6):958-70.

Aberle DR, DeMello S, Berg CD, Black WC, Brewer B, Church TR, Clingan KL, Duan F, Fagerstrom RM, Gareen IF, Gatsonis CA, Gierada DS, Jain A, Jones GC, Mahon I, Marcus PM, Rathmell JM, Sicks J; National Lung Screening Trial Research Team. Results of the two incidence screenings in the National Lung Screening Trial. *N Engl J Med*. 2013 Sep 5;369(10):920-31.

Patz EF Jr, Pinsky P, Gatsonis C, Sicks JD, Kramer BS, Tammemägi MC, Chiles C, Black WC, Aberle DR; NLST Overdiagnosis Manuscript Writing Team. Overdiagnosis in low-dose computed tomography screening for lung cancer. *JAMA Intern Med.* 2014 Feb 1;174(2):269-74.

Raunig DL, McShane LM, Pennello G, Gatsonis C, Carson PL, Voyvodic JT, Wahl RL, Kurland BF, Schwarz AJ, Gönen M, Zahlmann G, Kondratovich M, O'Donnell K, Petrick N, Cole PE, Garra B, Sullivan DC; QIBA Technical Performance Working Group. Quantitative imaging biomarkers: A review of statistical methods for technical performance assessment. *Stat Methods Med Res*. 2014 Jun 11. pii: 0962280214537344. [Epub ahead of print] PMID: 24919831

Rahbar H, Hanna LG, Gatsonis C, Mahoney MC, Schnall MD, DeMartini WB, Lehman CD. Contralateral Prophylactic Mastectomy in the American College of Radiology Imaging Network 6667 Trial: Effect of Breast MR Imaging Assessments and Patient Characteristics. *Radiology.* 2014 Oct;273(1):53-60. PMID: 24937691

Gareen IF, Duan F, Greco EM, Snyder BS, Boiselle PM, Park ER, Fryback D, Gatsonis C. Impact of lung cancer screening results on participant health-related quality of life and state anxiety in the National Lung Screening Trial. *Cance*r. 2014 Nov 1;120(21):3401-9. PMID: 25065710

Black WC, Gareen IF, Soneji SS, Sicks JD, Keeler EB, Aberle DR, Naeim A, Church TR, Silvestri GA, Gorelick J, Gatsonis C. Cost-effectiveness of CT screening in the National Lung Screening Trial. N Engl J Med. 2014 Nov 6;371(19):1793-802. PMID: 25372087

Mahler SA, Miller CD, Litt HI, Gatsonis CA, Snyder BS, Hollander JE. Performance of the 2-hour accelerated diagnostic protocol within the American College of Radiology Imaging Network PA 4005 cohort. Acad Emerg Med. 2015 Apr;22(4):452-60. PMID: 25810343

Weber WA, Gatsonis CA, Mozley PD, Hanna LG, Shields AF, Aberle DR, Govindan R, Torigian DA, Karp JS, Yu JQ, Subramaniam RM, Halvorsen RA, Siegel BA; ACRIN 6678 Research team. Repeatability of 18F-FDG PET/CT in Advanced Non-Small Cell Lung Cancer: Prospective Assessment in 2 Multicenter Trials. J Nucl Med. 2015 Aug;56(8):1137-43. PMID: 25908829

Young RP, Duan F, Chiles C, Hopkins RJ, Gamble GD, Greco EM, Gatsonis C, Aberle D. Airflow Limitation and Histology Shift in the National Lung Screening Trial. The NLST-ACRIN Cohort Substudy. Am J Respir Crit Care Med. 2015 Nov 1;192(9):1060-7. PMID: 26199983

Gareen IF, Siewert B, Vanness DJ, Herman B, Johnson CD, Gatsonis C. Patient willingness for repeat screening and preference for CT colonography and optical colonoscopy in ACRIN 6664: the National CT Colonography trial. Patient Prefer Adherence. 2015 Jul 23;9:1043-51PMID: 26229451

Sullivan DC, Obuchowski NA, Kessler LG, Raunig DL, Gatsonis C, Huang EP, Kondratovich M, McShane LM, Reeves AP, Barboriak DP, Guimaraes AR, Wahl RL; RSNA-QIBA Metrology Working Group. Metrology

Standards for Quantitative Imaging Biomarkers. Radiology. 2015 Dec;277(3):813-25. PMID: 26267831

Hollander JE, Gatsonis C, Greco EM, Snyder BS, Chang AM, Miller CD, Singh H, Litt HI. Coronary Computed Tomography Angiography Versus Traditional Care: Comparison of One-Year Outcomes and Resource Use. Ann Emerg Med. 2015 Oct 22. pii: S0196-0644(15)01302-5. PMID: 26507904

Bossuyt PM, Reitsma JB, Bruns DE, Gatsonis CA, Glasziou PP, Irwig L, Lijmer JG, Moher D, Rennie D, de Vet HC, Kressel HY, Rifai N, Golub RM, Altman DG, Hooft L, Korevaar DA, Cohen JF; STARD Group. STARD 2015: An Updated List of Essential Items for Reporting Diagnostic Accuracy Studies. BMJ. 2015 Oct 28;351:h5527. PMID: 26511519. Also Radiology 2015; 277:826-32 and Clin Chem. 2015 Dec;61(12):1446-52.

Hylton NM, Gatsonis CA, Rosen MA, Lehman CD, Newitt DC, Partridge SC, Bernreuter WK, Pisano ED, Morris EA, Weatherall PT, Polin SM, Newstead GM, Marques HS, Esserman LJ, Schnall MD; ACRIN 6657 Trial Team and I-SPY 1 TRIAL Investigators. Neoadjuvant Chemotherapy for Breast Cancer: Functional Tumor Volume by MR Imaging Predicts Recurrence-free Survival-Results from the ACRIN 6657/CALGB 150007 I-SPY 1 TRIAL. Radiology. 2015 Dec 1:150013. [Epub ahead of print] PMID: 26624971.

Patz EF Jr, Greco E, Gatsonis C, Pinsky P, Kramer BS, Aberle DR. Lung cancer incidence and mortality in National Lung Screening Trial participants who underwent low-dose CT prevalence screening: a retrospective cohort analysis of a randomised, multicentre, diagnostic screening trial. Lancet Oncol. 2016 May;17(5):590-9. doi: 10.1016/S1470-2045(15)00621-X. PMID:27009070

Stillman AE, Gatsonis C, Lima JA, Black WC, Cormack J, Gareen I, Hoffmann U, Liu T, Mavromatis K, Schnall MD, Udelson JE, Woodard PK. Rationale and design of the Randomized Evaluation of patients with Stable angina Comparing Utilization of noninvasive Examinations (RESCUE) trial. Am Heart J. 2016 Sep;179:19-28. doi: 10.1016/j.ahj.2016.06.003. PMID: 27595676

Cohen JF, Korevaar DA, Altman DG, Bruns DE, Gatsonis CA, Hooft L, Irwig L, Levine D, Reitsma JB, de Vet HC, Bossuyt PM. STARD 2015 guidelines for reporting diagnostic accuracy studies: explanation and elaboration. BMJ Open. 2016 Nov 14;6(11):e012799. doi: 10.1136/bmjopen-2016-012799. PMID: 2813783

Mor V, Volandes AE, Gutman R, Gatsonis C, Mitchell SL. PRagmatic trial Of Video Education in Nursing homes: The design and rationale for a pragmatic cluster randomized trial in the nursing home setting. Clin Trials. 2017 Apr;14(2):140-151. doi: 10.1177/1740774516685298. PMID: 28068789

Korevaar DA, Hooft L, Askie LM, Barbour V, Faure H, Gatsonis CA, Hunter KE, Kressel HY, Lippman H, McInnes MDF, Moher D, Rifai N, Cohen JF, Bossuyt PMM. Facilitating Prospective Registration of Diagnostic Accuracy Studies: A STARD Initiative. Clin Chem. 2017 Aug;63(8):1331-1341. doi: 10.1373/clinchem.2017.272765. Epub 2017 Jun 19. PMID: 28630237

Cohen JF, Korevaar DA, Gatsonis CA, Glasziou PP, Hooft L, Moher D, Reitsma JB, de Vet HC, Bossuyt PM; STARD Group. STARD for Abstracts: essential items for reporting diagnostic accuracy studies in journal or conference abstracts. BMJ. 2017 Aug 17;358:j3751. doi: 10.1136/bmj.j3751. PMID:2881906

Korley FK, Gatsonis C, Snyder BS, George RT, Abd T, Zimmerman SL, Litt HI, Hollander JE. Clinical risk factors alone are inadequate for predicting significant coronary artery disease. J Cardiovasc Comput Tomogr. 2017 Jul - Aug;11(4):309-316. doi: 10.1016/j.jcct.2017.04.011. Epub 2017 Apr 27. PMID: 28487137

Chang AM, Litt HI, Snyder BS, Gatsonis C, Greco EM, Miller CD, Singh H, O'Conor KJ, Hollander JE. Impact of Coronary Computed Tomography Angiography Findings on Initiation of Cardioprotective Medications. Circulation. 2017;136(22):2195-2197. doi: 10.1161/CIRCULATIONAHA.117.029994., PMID: 29180497

McInnes MDF, Moher D, Thombs BD, McGrath TA, Bossuyt PM; the PRISMA-DTA Group, Clifford T, Cohen JF, Deeks JJ, <u>Gatsonis C,</u> Hooft L, Hunt HA, Hyde CJ, Korevaar DA, Leeflang MMG, Macaskill P, Reitsma JB, Rodin R, Rutjes AWS, Salameh JP, Stevens A, Takwoingi Y, Tonelli M, Weeks L, Whiting P, Willis BH. Preferred Reporting Items for a Systematic Review and Meta-analysis of Diagnostic Test Accuracy Studies: The PRISMA-DTA Statement. JAMA. 2018 Jan 23;319(4):388-39 , doi: 0.1001/jama.2017.19163. PMID: 29362800

Li H<u>, Gatsonis C</u>. Combining biomarker trajectories to improve diagnostic accuracy in prospective cohort studies with verification bias. Stat Med. 2019 May 20;38(11):1968-1990. doi: 10.1002/sim.8079. Epub 2018 Dec 27. PMID: 30590870

Lehman CD, <u>Gatsonis C</u>, Romanoff J, Khan SA, Carlos R, Solin LJ, Badve S, McCaskill-Stevens W, Corsetti RL, Rahbar H, Spell DW, Blankstein KB, Han LK, Sabol JL, Bumberry JR, Gareen I, Snyder BS, Wagner LI, Miller KD, Sparano JA, Comstock C.   Association of Magnetic Resonance Imaging and a 12-Gene Expression Assay With Breast Ductal Carcinoma In Situ Treatment. JAMA Oncol. 2019 Jan 17. doi: 10.1001/jamaoncol.2018.6269 PMID: 3065320

Rabinovici GD, <u>Gatsonis C</u>, Apgar C, Chaudhary K, Gareen I, Hanna L, Hendrix J, Hillner BE, Olson C, Lesman-Segev OH, Romanoff J, Siegel BA, Whitmer RA, Carrillo MC. Association of Amyloid Positron Emission Tomography With Subsequent Change in Clinical Management Among Medicare Beneficiaries With Mild Cognitive Impairment or Dementia. JAMA. 2019 Apr 2;321(13):1286-1294. doi: 10.1001/jama.2019.2000. PMID: 30938796

Munden RF, Chiles C, Boiselle PM, Sicks JD, Aberle DR, <u>Gatsonis CA.</u> Micronodules Detected on Computed Tomography During the National Lung Screening Trial: Prevalence and Relation to Positive Studies and Lung Cancer. J Thorac Oncol. 2019 Sep;14(9):1538-1546. doi: 10.1016/j.jtho.2019.05.045. Epub 2019 Jul 8. PMID: 31295576

Debruhl ND, Lee SJ, Mahoney MC, Hanna L, Tuite C, <u>Gatsonis CA</u>, Lehman C. MRI Evaluation of the Contralateral Breast in Women with Recently Diagnosed Breast Cancer: 2-Year Follow-up. J Breast Imaging. 2020 Feb;2(1):50-55. doi: 10.1093/jbi/wbz053. Epub 2019 Nov 8. PMID: 32055797

Comstock CE, <u>Gatsonis C</u>, Newstead GM, Snyder BS, Gareen IF, Bergin JT, Rahbar H, Sung JS, Jacobs C, Harvey JA, Nicholson MH, Ward RC, Holt J, Prather A, Miller KD, Schnall MD, Kuhl CK. Comparison of Abbreviated Breast MRI vs Digital Breast Tomosynthesis for Breast Cancer Detection Among Women With Dense Breasts Undergoing Screening. JAMA. 2020 Feb 25;323(8):746-756. doi: 10.1001/jama.2020.0572. PMID: 32096852

b. Books:

<u>Gatsonis</u>, C.A., Hodges, J., Kass, R. and Singpurwala, N. (eds.) *Case Studies in Bayesian Statistics*. New York: Springer-Verlag, Volume I, 1993, Volume II, 1995,Volume III, 1997.

<u>Gatsonis</u>, C.A., Carlin B., Carriquiri A., Gelman, A., Kass, R. Verdinelli, I. and West, M (eds).   *Case Studies in Bayesian Statistics*. New York: Springer-Verlag, Volume IV, 1998.

Gatsonis, C. and Sally Morton (eds) *Methods in Comparative Effectiveness Research.* New York, Chapman and Hall, 2017.

c. Book chapters/Editorials/Review Articles/Proceedings:

Kovacs, M. and <u>Gatsonis</u>, C.A. Stability and change in childhood -onset depressive disorders. *In The Validation of psychiatric disorders*, Robbins L. and Barret, J. eds, Raven Press, New York, pp. 57-75. Invited paper delivered at the 78th annual meeting of the American Psychopathological Association, March 1988.

<u>Gatsonis</u>, C.A. Multi-institutional clinical studies of diagnostic imaging: Potential methodology for clinical PACS evaluation. Invited paper in *Medical Imaging IV: PACS system design and evaluation*, 1990; 1234: 218-222.

<u>Gatsonis</u>, C.A. The long debate on the sixth stool guaiac test: Time to move on to new grounds. *Journal of Health Economics*, 1991; 9:495-497.

<u>Gatsonis</u>, C.A., Needleman, H. Recent epidemiologic studies of the relation between low level lead exposure and the IQ of children: a meta-analytic review. *Human Lead Exposure*, CRC Press, 1991.

<u>Gatsonis</u>, C.A. Review of "How many subjects? Statistical Power Analysis in Research." by Kraemer, H. and Thieman, S. *Journal of the American Statistical Association,* 1991; 84:1096-1097.

<u>Gatsonis</u>, C.A. Risk adjustment for medical outcome studies: Are we opening Pandora's box? In *Medical Effectiveness Research, Data Methods*, Grady, M.L. and Schwartz, H.A. eds., 1992. Agency for Health Care Policy Research.

Wahl RL; Hawkins RA; Larson SM; Hendee WR; Coleman RE; Holden RW; Frick MP; <u>Gatsonis</u> C; Brown GS; Shtern Proceedings of a National Cancer Institute workshop: PET in oncology--a clinical research agenda. *Radiology* 1994;193:604-6

<u>Gatsonis</u>, C.A.   Invited Discussion of "Scientific Inference and Predictions; Multiplicities and Convincing Stories: A Case Study of Breast Cancer Therapy", by D. A. Berry, A. Thor et al, in *Bayesian Statistics 5*, J. Bernardo, J.O. Berger, A.P. Dawid, and AFM Smith (Eds), Oxford U. Press, 1996.

<u>Gatsonis</u>, C.A. Hierarchical Models in Health Services Research. *Encyclopedia of Biostatistics*, New York: Wiley, 1998; 3: 1916-1920.

<u>Gatsonis</u>, C. A. Profiling Providers of Medical Care. *Encyclopedia of Biostatistics*, New York: Wiley, 1998; 3: 3536-3537.

<u>Gatsonis</u>, C.A. and Hillman, B. Introduction to special issue of *Academic Radiology*.1999, S1-S2.

<u>Gatsonis</u>, C.A. Design of Evaluations of Imaging Technologies: Development of a paradigm. *Academic Radiology*, 2000; 7: 681-683.

Irwig L., Bossuyt P., Glasziou P., <u>Gatsonis</u> C., and Lijmer J. Designing studies to ensure that estimates of test accuracy will travel. In *The Evidence Base of Clinical Diagnosis* JA Knottnerus (Ed.). BMJ Books, London, 2002.

<u>Gatsonis</u>, C. Do we need a checklist for reporting the results of diagnostic test evaluations? The STARD proposal*. Acad Radiol*. 2003;10(6):599-600.

Gareen I, <u>Gatsonis</u> C. Primer on multiple regression models for diagnostic imaging research. *Radiology.* 2003;229(2):305-10.

<u>Gatsonis</u> C, Paliwal P. Meta-analysis of diagnostic and screening test accuracy evaluations: methodologic primer. *Am J Roentgenol*. 2006; 187(2):271-81.

Hillman B, <u>Gatsonis C.</u> When is the Right Time to Conduct a Clinical Trial of a Diagnostic Imaging Technology? *Radiology.* 2008; 248(1):12-5

Hillman BJ, <u>Gatsonis C</u>. The American College of Radiology Imaging Network--clinical trials of diagnostic imaging and image-guided treatment. *Semin Oncol*. 2008;35(5):460-9.

<u>Gatsonis, CA</u>. Receiver operating characteristic analysis for the evaluation of diagnosis and prediction. *Radiology.* 2009 Dec; 253:593-6

Macaskill P, Gatsonis C, Deeks JJ, Harbord R, Takwoingi Y. Chapter 10: *Analysing and presenting results*. In: Deeks JJ, Bossuyt PM, Gatsonis C, eds. Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy Version 1.0.0. The Cochrane Collaboration. 2010. Available from http://srdta.cochrane .org/handbook-dta-reviews.

Sullivan DC, <u>Gatsonis C</u>. Response to treatment series: part 1 and introduction, measuring tumor response--challenges in the era of molecular medicine. *Am J Roentgenol*. 2011 Jul;197(1):15-7.

Hillman BJ, Frank RA, Rodriguez GM; Medical Imaging & Technology Alliance (MITA) Workshop Participants. New pathways to medicare coverage for innovative PET radiopharmaceuticals: report of a Medical Imaging & Technology Alliance (MITA) workshop. *J Am Coll Radiol*. 2012 Feb;9(2):108-14

<u>Gatsonis, C</u>, Carlos R, Gareen I, Gorelick J, Kessler L, Lau J, Rutter C, Schmid C, Tosteson A. Trikalinos T. Standards in the Design, Conduct and Evaluation of Diagnostic Testing For Use in Patient Centered Outcomes Research. 2012. Available at http://www.pcori.org/assets/Standards-inthe-Design-Conduct-and-Evaluation-of-Diagnostic-Testing-for-Use-in-Patient-Centered-Outcomes-Research.pdf.

Dahabreh IJ, <u>Gatsonis C</u>. A Flexible, Multifaceted Approach Is Needed in Health Technology Assessment of PET. *J Nucl Med*. 2014 Jul 21;55(8):1225-1227. PMID: 25047328

<u>Gatsonis, C</u>. The status of research in the forensic sciences. In Forensic Science Research and Evaluation Workshop: A Discussion on the Fundamentals of Research Design and an Evaluation of Available Literature. May 2015. National Institute of Justice.

McGee J, Bookman M, Harter P, Marth C, McNeish I, Moore KN, Poveda A, Hilpert F, Hasegawa K, Bacon M, <u>Gatsonis C</u>, Brand A, Kridelka F, Berek J, Ottevanger N, Levy T, Silverberg S, Kim BG, Hirte H, Okamoto A, Stuart G, Ochiai K; participants of the 5th Ovarian Cancer Consensus Conference. Ann Oncol. 2017 Apr 1;28(4):702-710. doi: 10.1093/annonc/mdx010. PMID: 28119296

Harrington D, D'Agostino RB Sr, <u>Gatsonis C</u>, Hogan JW, Hunter DJ, Normand ST, Drazen JM, Hamel MB. New Guidelines for Statistical Reporting in the Journal. N Engl J Med. 2019 Jul 18;381(3):285-286. doi: 10.1056/NEJMe1906559. PMID: 31314974

d. Reports

Institute of Medicine, *Immunization Safety Review*. 8 reports (2001-2004)

National Research Council, *Strengthening Forensic Science in the United States: A path forward*, 2009

Institute of Medicine, *Initial National Priorities for Comparative Effectiveness Research*, 2009

Institute of Medicine, *Scientific Standards for Studies on Modified Risk Tobacco Products*, 2011

National Academies of Sciences, Engineering, and Medicine. 2018. Evaluation of the Department of Veterans Affairs Mental Health Services. Washington, DC: The National Academies Press. https://doi.org/10.17226/24915.

National Academies of Sciences, Engineering, and Medicine. 2019. *Reproducibility and Replicability in Science*. Washington, DC: The National Academies Press. https://doi.org/10.17226/25303.

NAS, Committee on Theoretical and Applied Statistics (CATS) :

Training Students to Extract Value from Big Data: Summary of a Workshop (2015)

Statistical Challenges in Assessing and Fostering the Reproducibility of Scientific Results: *Summary of a Workshop (2016*)

Refining the Concept of Scientific Inference When Working with Big Data: Proceedings of a Workshop (2017)

Invited presentations (*selection* from presentations given since 2001):

2001	Mar	Department of Biostatistics, Yale University
2001	June	Academy for Health Services Research and Health Policy, Annual Meeting, Atlanta GA
2001	June	23rd International Technology Interfaces Conference, Pula, Croatia.
2001	Nov	Thought Leaders Conference, Medical Society of Georgia, Atlanta GA.
2002	Mar	Spring Biometric Society (ENAR) Meetings, Arlington VA (Invited Tutorial)
2003	Feb	4th National Forum on Biomedical Imaging in Oncology. Bethesda MD.
2003	Mar	Spring Biometric Society (ENAR) Meetings, Tampa FL.
2003	Apr	Dept of Epidemiology, University of Ioannina, Ioannina, Greece.
2003	June	Spinoza Lecture, Amesterdam Medical Center
2003	June	Department of Social Medicine, University of Bern, Switzerland.
2004	Mar	2nd International Workshop in Applied Probability, Pireaus, Greece.
2004	May	25th Annual Meeting, Society for Clinical Trials, N. Orleans, La.
2004	May	Bayesian Approaches. FDA Sponsored Workshop, Bethesda Md.
2004	July	Dept of Epidemiology, University of Sydney, Sydney, Australia
2004	July	International Biometric Society Conference, Kearns, Australia.
2004	Dec	Department of Biostatistics, Columbia University.
2005	Mar	Spring Biometric Society (ENAR) meetings, Austin Tx.
2005	May	3rd Conf, Eastern Medit. Region of Intern. Biometric Society, Corfu, Greece.
2005	June	Dept of Biostatistics, Erasmus University, Rotterdam, Netherlands
2005	Nov	Pfizer Corporation, New London CT
2006	May	CT Chapter of the American Statistical Association
2006	June	Dept of Quantitative Health Sciences, Cleveland Clinic
2007	Mar	Spring Biometric Society (ENAR) meeting, Atlanta Ga.
2007	May	Dept of Biostatistics, Johns Hopkins University
2007	July	Joint Statistical Meetings, Salt Lake City
2007	Nov	Dept of Mathematics, Boston University
2008	Jan	Bayesian Biostatistics 2008, Houston Texas (Discussion)
2008	Mar	Spring Biometric Society (ENAR) meeting, (Discussion)
2008	Aug	Joint Statistical Meetings, Denver CO
2009	March	Department of Biostatistics, Duke University
2009	Mar	Spring Biometric Society (ENAR) meeting
2009	Oct	Drug Information Agency Conference, Bethesda MD
2009	Dec	IBM Medical Informatics Day
2010	Jan	8th International Conference on Health Policy Statistics, Washington DC
2010	March	Grand Rounds, Dept of Radiology, University of Massachusetts
2010	Mar	Spring Biometric Society (ENAR) meeting
2010	June	International Cancer Screening Network, Oxford UK
2010	Nov	Radiology Society of North America 2010, Chicago Illinois

2010	Dec	NIH-AHRQ Conference on Methodologic Challenges in CER, Bethesda MD (Discussion)
2011	Jan	Einstein/Montefiore Medical Center, Bronx NY
2011	April	Dalhousie University, Halifax, Canada
2011	May	6th EMR-IBS Conference, Crete, Greece
2011	May	American Thoracic Society, Denver CO
2011	June	European Society for Thoracic Imaging – Fleischner Society Joint Meeting, Heidelberg, Germany
2011	Sept	CCOP/MB-CCOP & Research Base Meeting, National Cancer Institute
2011	Nov	Radiology Society of North America, Annual Meeting
2012	Feb	Dept of Biostatistics, Dana-Farber Cancer Institute
2012	Feb	Dept of Biostatistics, Columbia University
2012	Nov	Dept of Biostatistics, University of North Carolina, Chapel Hill
2013	April	7th EMR-IBS Conference, Tel Aviv, Israel
2013	Aug	Joint Statistical Meetings 2013, Montreal, Quebec, Canada
2014	March	Spring Biometric Society (ENAR) Meetings, Baltimore Md
2014	July	International Biostatistics Society conference, Florence Italy
2015	March	Canadian Statistical Sciences Institute (CANSSI), Toronto, Ontario, Canada
2015	May	Forensic Science Research Evaluation Workshop, Washington DC
2015	Oct	Plenary Address, International Conference on Health Policy Statistics, Providence
2016	March	Spring Biometric Society (ENAR) Meetings, Austin Tx
2016	Aug	Joint Statistical Meetings, Chicago Il.
2017	Feb	American Association for the Advancement of Science, Boston Ma.
2017	March	Department of Biostatistics, Boston University School of Public Health
2017	May	Wokshop in honor of Marvin Zelen, EMR-IBS Conference, Thessaloniki, Greece
2017	Nov	Department of Statistics, University of Virginia
2018	April	Department of Biostatistics, Harvard School of Public Health
2018	May	Society of Breast MRI
2018	Oct	National Cancer Policy Forum, National Academies
2018	Dec	10th EMR-IBS Conference, Jerusalem, Israel
2019	March	Boston Chapter, American Statistical Association (Mosteller Prize)
2019	Nov	2nd Symposium in Biostatistics and Data Science, Peking University, China

Short courses (Selection since 2000**):**

2000	Apr	"Statistical Methods for Evaluating Screening and Diagnostic Tests", (with A. Toledano and C. Beam). Toronto, CA. Society for Clinical Trials Annual Meeting.
2000	June	"Hierachical Modeling in Health Services Research", (with M. Daniels). Edmonton, Alberta, CA. Conference on Statistics and Health.

2000   Aug   "Hierachical Modeling in Health Services Research", (with M. Daniels).
                  Centers for Disease Control, Hyattsville, MD
2000   Aug   "Hierachical Modeling in Health Services Research", (with M. Daniels).
                  Joint Statistical Meetings, Indianapolis, IN.
2001   Jan   "Hierachical Modeling in Health Services Research". Lister Hill Center for Health Policy,
                  University of Alabama at Birmingham.
2001   Aug   " Design and Analysis of Studies of Screening and Diagnostic Tests" (with A. Toledano and
                  J. Blume) Joint Statistical Meetings, Atlanta, GA
2001   Oct   "Introduction to research synthesis of diagnostic test evaluations" (with F. Buntinx).
                  International Cochrane Colloquium, Lyon, France.
2002   May   "Hierarchical Models in Health Services and Outcomes Research", Boston Chapter of the
                  American Statistical Association, Boston MA.
2002   July   "Statistical methods for diagnostic test evaluation", International Biometric Conference,
                  Freiburg, Germany.
2002   Sept   "Hierarchical Models in Health Services and Outcomes Research", Centers for Disease
                  Control, Atlanta GA.
2003   March   "Statistical methods for diagnostic test evaluation", Biometric Society (ENAR), Spring
                  Meetings, Tampa FL.
2003   April   'Statistical methods for diagnostic test evaluation", Greek Statistical Institute, Annual
                  Meeting. Kavalla, Greece.
2003   June   "Statistical methods for diagnostic test evaluation", Amsterdam Medical Center,
                  Amsterdam, Netherlands.
2003   Oct   "Hierarchical Models in Health Services and Outcomes Research", 3rd International
                  Conference in Health Care Policy Research, Chicago Ill.
2004   March "Meta-analysis of diagnostic test evaluations", US Cochrane Center Meeting, Brown
                  University
2007, 2008   "Clinical trials of imaging", ACRIN Annual Meeting, Arlington Va.
2009 Feb-Aug "Clinical trials of diagnostic imaging" Bayer Research Workshops, Seoul, Korea; Shanghai
                  China; Bangkok, Thailand; Taipei, Taiwan.
2010   May   "Comparative Effectiveness Research: An introduction to statisticians", Spring Meetings of
                  the Biometric Society (ENAR)
2010   Sept   "Comparative Effectiveness Research: A methodologic introduction", University of
                  Pittsburgh.
2010   Oct   "Clinical Studies of Diagnostic Tests", European Society for Clinical Investigation. Athens,
                  Greece
2012   June   "Comparative Effectiveness Research: Introduction for Statisticians ", International Chinese
                  Statistical Association, Boston
2013   Oct   "Comparative Effectiveness Research", International Conference on Health Policy Statistics,
                  Chicago.

University teaching:

1980, 1981	Statistics for Behavioral Science, Rutgers University
1980, 1981	Real Analysis and Measure Theory, Rutgers University
1981, Fall	Statistics for Business and Economics, Rutgers University
1981, 1982	Mathematical Statistics, Rutgers University
1982, Summer	Experimental Design, Rutgers University
1982, Summer	Applied Statistics for Experimenters, Rutgers University
1982, Fall	Statistics for Education, Rutgers University
1982, 1983	Advanced Theoretical Statistics, Rutgers University
1983, Spring	Bayesian Inference, Rutgers University
1983, Fall	Statistics for Business and Economics, University of Massachusetts/Amherst
1983, 1984	Mathematical Statistics, University of Massachusetts/Amherst
1984, Spring	Probability and Math Statistics, Univ. of Massachusetts/Amherst
1984, Fall	Regression Analysis, University of Massachusetts/Amherst
1985, Spring	Probability and Math Statistics, Univ. of Massachusetts/Amherst
1985, Spring	Advanced Multivariate Analysis, Univ. of Massachusetts/Amherst
1987, Spring	Time Series Analysis, Carnegie-Mellon University
1987, 1988	Advanced Theoretical Statistics, Carnegie-Mellon University
1989, Fall	Applied Bayesian Analysis, Harvard School of Public Health
1990, Fall	Advanced Theoretical Statistics, Harvard School of Public Health
1993, Spring	Statistical methods for Health Policy and Management, Harvard School of Public Health
1994, Fall	Bayesian Methodology in Biostatistics, Harvard School of Public Health
1995-1999	Applied Regression Analysis, Brown University
1995, 1996	Introduction to Biostatistics, Brown University
1997, 1999	Advanced Statistical Inference, Brown University
1998, Fall	Clinical Trials Methodology, Brown University
1999, 2000	Bayesian Methods in Biostatistics, University of Athens, Greece
2000, Fall	Bayesian Statistical Methodology, Brown University
2001, Fall	Discrete Data Analysis, Brown University
2002, Fall	Bayesian Statistical Methodology, Brown University
2004, 2005 Spring	Statistical methods for Bioinformatics: I, Brown University
2006, 2007 Spring	Applied Regression Analysis, Brown University
2007, 2008 Spring	Biostatistics, 1st year medical students.
2007, Fall	Clinical Trial Methodology, Brown University
2009, 2010 Spring	Advanced Multivariate Methods, Brown University
2011, 2013-2020 Spring	Statistical Inference II, Brown University
2014 - 2016 Fall	First Year Seminar, Brown University
2018, Spring	Case Studies in Health Data Science, Brown University
2019, Fall	Linear Models, Brown University