

CURRICULUM VITAE

RYUNG S. KIM, PH.D.

(Updated Jan 1st, 2024)

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EDUCATION

2000	B.S. in Statistics	Seoul National University, South Korea
2005	Ph.D. in Biostatistics	Harvard University
2014	M.Div. in Theology	Biblical Theological Seminary

PROFESSIONAL EMPLOYMENT & POSITIONS

2005-2006	Instructor, Department of Neuro-Oncology, Dana-Farber Cancer Institute, Harvard University, Cambridge, MA
2006-2009	Assistant Professor, Department of Mathematical Sciences, Worcester Polytechnic Institute, Worcester, MA
2009-2015	Assistant Professor, Department of Epidemiology and Population Health, Albert Einstein College of Medicine, Bronx, NY
2017-2018	Visiting Professor, Department of Applied Statistics, College of Business and Economics, Yonsei University, Seoul, South Korea
2015-Present	Associate Professor, Department of Epidemiology and Population Health, Albert Einstein College of Medicine, Bronx, NY
2023-Present	Associate Director, The Biostatistics Shared Resource of Montefiore Einstein Comprehensive Cancer Center

MEMBERSHIPS

American Statistical Association,
Statistics without Borders
Korean International Statistical Society
Korean Statistical Association (Past)
Indian International Statistical Association (Past)

AWARDS AND SERVICES

Service Activities: National

- 2022/07 NIH Center For Scientific Review, “Cancer Prevention and Therapy”, Special Emphasis Panel (SEP) (2022/10 ZRG1 OTC-L 02 M)
- 2023/03 NIH Small Business Panel for Drug Discovery Involving the Nervous System (2023/05 ZRG1 NV-S 14 B)
- 2023/06 NIH Clinical Oncology study section (CONC)
- 2023/10 NIH Clinical Oncology study section (CONC)

Service Activities: Local

- 2019-current Interviewer for Harvard College Admissions Office
- 2024 Mentoring local High School science project(s)

Service Activities: International

- 2014 Short Courses Committee for the Joint Applied Statistics Symposium of International Chinese Statistical Association & Korean International Statistical Society
- 2017-2019 Communication Director of Korean International Statistical Society
- 2018-2019 Scientific Program Committee for the 2019 International Indian Statistical Association conference
- 2019 Session Organizer and Chair, *Matching of survey data, analysis of outcome dependent sampling, missingness and unmeasured confounding*, International Indian Statistical Association Conference, Mumbai IIT, December 2019
- 2021-2026 Board of Directors of Korean International Statistical Society

REVIEWER

- Associate Editor PLOS ONE
BMC Public Health
Scientific Reports (of Nature Research)
Communications for Statistical Applications and Methods

Journal Reviews Nature Communications, American Journal of Hypertension, Biometrics, Biostatistics, BMC genomics, Journal of Clinical Epidemiology, Clinical Cancer Research, Journal of Applied Statistics, Journal of Pacing and Clinical Electrophysiology, Statistics in Medicine, PLoS ONE, Frontiers Public Health, and Electronic Journal of Statistics

EINSTEIN INSTITUTIONAL SERVICE

2010-2011 Seminar Committee, Biostatistics Division, Epidemiology and Population Health

2010-Present Biostatistician, Biostatistics, Epidemiology & Research Design Core (BERD), Institute for Clinical and Translational Research

2010-Present Biostatistician, The Biostatistics Shared Resources of Cancer Center at Albert Einstein College of Medicine

2013-Present Protocol Review and Monitoring Committee (PRMC) of the Cancer Center

2014-Present Frequent speaker, Center for Quantitative Sciences Monthly Research Talks and Department of Epidemiology and Population Health Journal Club

2016-present The Ad Hoc Chairman for the Review of Promotion (2016, 2017, 2023)

2018-2020 The Committee on Appointments and Promotions (Associate Professor Committee)

2023-present Associate Director, The Biostatistics Shared Resource of Montefiore Einstein Comprehensive Cancer Center

2024-present BERD Lead Statistician for Electronical Health Records Research

EINSTEIN INSTITUTIONAL TALKS AND SHORT LECTURES

8/11/2011 Literature Review: Latent Class Analysis of Complex Sample Survey Data: Application to Dietary Data, Methods Journal Club – Center for Quantitative Sciences

8/19/2011 Fundamental of Biostatistics, Rheumatology Division at Bronx Lebanon Hospital

3/13/2012 Literature Review: Respondent-Driven Sampling, Methods Journal Club – Center for Quantitative Sciences

5/16/2013 Ten things you probably misunderstood about the nested case-control study design, Methods Journal Club – Center for Quantitative Sciences

10/15/2014	Inverse Probability Method for Case-Cohort & Nested Case-Control Studies, Methods Journal Club – Center for Quantitative Sciences
3/10/2015	P-values and Multiple Testing Adjustment, Methods Journal Club – Center for Quantitative Sciences
10/8/2018	Combining Aggregate Statistics from Big Data and Probability Surveys: Application to HER, Methods Journal Club – Center for Quantitative Sciences
6/4/2021	Linear Mixed Effects Model for Longitudinal and Correlated Data: a Tutorial, The Jacobi Medical Center Department of Surgery
6/8/2021	Reckoning Variable Selection into the Inference in Regression Analysis: an example with LASSO regression, Methods Journal Club – Center for Quantitative Sciences
3/30/2022	Bivariate Statistics, Clinical Research Methodology Series Lecture hosted by Office of Faculty Development
4/10/2023	Asymptotic inference on LASSO estimates from generalized linear models, Methods Journal Club – Center for Quantitative Sciences
9/22/2023	Overview of Phase 1 Trial Designs, Montefiore-Einstein Comprehensive Cancer Center and ICTR lecture

OTHER PROFESSIONAL ACTIVITIES

Pre-doctoral Research Work

2000-2002	Research Assistant, Center of Biostatistics in AIDS Research, Harvard School of Public Health, Boston, MA
2002	Research Assistant as Consultant at Microarray Core Facility, Dana-Farber Cancer Institute, Boston, MA
2002-2005	Research Assistant, Computational Biology Lab, Department of Medical Oncology, Harvard Medical School, Dana-Farber Cancer Institute, Boston, MA

External Statistical Consultation

2007	Consultation for Biomedical Research Models, Inc. Worcester, MA
2010	Designed Baseline Survey Plan for USAID Food and Nutrition Technical Assistance Project (FANTA-2) Food for Peace awardees (Statistics-without-Borders project)

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| 2012 | Analysis of Nationally Representative Economic Survey Five Months After the Haitian Earthquake (Statistics-without-Borders project) |
| 2012-2015 | Epi-demos-cracy of Disease, Health, and Life quality (Korean National Research Foundation Grant) |
| 2014 | Founded Missional Consulting Group, LLC. |
| 2014 | Evaluation of the Fit-for-Life Program by Urban Health Plan, Bronx, NY |

Statistical Consultation For New York City Department of Health & Mental Hygiene

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| 2014-16 | Evaluation of Restaurant Grading Program |
| 2016 | Cost Analysis to Determine RSE Cutoff of NSPD Incidence Rates |
| 2016 | Review of Current Method to Combine CHS ZCTA |
| 2015-17 | Combined analysis of NYC HANES with Macroscopic |
| 2019-20 | Spatial Autoregressive Models for Legionellosis Incidence and Cooling Towers with Detectable Legionella pneumophila |

WPI Institutional Services

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| 2007-08 | Undergraduate Committee, Department of Mathematical Science |
| 2008-09 | Graduate Committee, Department of Mathematical Science |
| 2007-09 | Colloquium Committee, Department of Mathematical Science |
| 2008-09 | Ph.D. General Comprehensive Examination Committee, Ph.D. Preliminary examination committee, Ph.D. Dissertation committee, Department of Mathematical Science |
| 2009 | Faculty Search Committee, Department of Mathematical Science |

RESEARCH:

Current grants

NY-CDTR (PI: Ryung Kim) 11/1/2022 - 10/31/2024 \$100,000
Prognostic Factors of Type 2 Diabetes among Patients with Gestational Diabetes Mellitus
 We aim 1) to construct a de-identified electronic cohort of GDM from three data sources: EMR in Montefiore Health System, EMR in Mount Sinai, and HCHS/SOL cohort, and to test the association between key predictors and T2D incidence among patients with GDM, 2) to build a

prognostic model for T2D incidence among patients with GDM by machine learning, and 3) test whether race/ethnicity and social determinants such as health insurance and preferred language modify the association between the key factors and the T2D incidence among patients with GDM.

Role: Principal Investigator

75N92019D00011-0-759201900045-1 (Kaplan)

NHLBI 11/30/2018 - 11/29/2025 \$1,035,165

Hispanic Community Health Study - Study of Latinos (Bronx Field Center)

The study focuses on the high prevalence of specific cardiovascular and pulmonary risk factors and disease, differences in prevalence of these across heritage groups, and relationships between risk (or protective) factors and disease onset, morbidity, and mortality among Hispanics/Latinos. Four main Task Areas are planned for this phase of the study to include core study operations, protocol development and training for clinic staff, and implementation of the Study's third examination.

Role: Statistician

R01MH119001-03 (Patel)

NIH 1/31/2020 - 2/28/2025 \$420,110

CHALO!: A mobile technology based intervention to accelerate HIV testing and linkage to prevention and treatment

Many people at high risk of HIV in the United States and globally are not reached by existing prevention programs. Online interventions can reach and engage individuals into HIV treatment and prevention, but few effective models exist anywhere. Therefore, it is important to develop clinically proven online prevention programs to engage people at high HIV risk and prevent new infections.

Role: Co-Investigator

R01HL166318 (Chambers)

NIH 1/1/2023 - 12/31/2026 \$4,216,976

Bronx Neighborhood Redevelopment and CVD in Mid-life and older Adults

Cardiovascular disease (CVD)- a leading cause of death as well as a leading driver of healthcare costs- disproportionately affects certain demographic and socioeconomic groups, under-resourced neighborhoods may be partially to blame. Resources may improve with "neighborhood redevelopment", but whether redevelopments translate to better health/ health disparities, the proposed study will use three complementary approaches: 1. natural experiment, 2. Qualitative analysis, and 3. Simulation analyses (micro-simulation and system modeling).

Role: Co-Investigator

R01 HL158156-01 (Rodriguez)

NHLBI 7/1/2022 - 6/30/2026 \$5,974,218

Vascular Determinants of Stage B Heart Failure among Hispanics: the role of the Heart-Vascular Interaction

Our proposed study offers a novel opportunity to concurrently characterize abnormal ventricular-vascular function, determine its correlates and identify HF trajectories among Hispanics/Latinos, thus facilitating new insights into the relations between aortic function, cardiac function, target

organ damage and clinical events. This will allow for new and important information regarding the utilization of ventricular-vascular function in defining HF risk in a minority population at high risk for HFpEF to effectively target future HF prevention strategies.

Role: Co-Investigator

2P30CA013330-50 (Chu)

NCI

7/1/2023 - 6/30/2028

\$32,690,186

Core Support for Cancer Center

The goal of the Center is to foster basic, clinical, population-based and translation research that addresses all aspects of the cancer problem.

Role: Statistician

5UL1TR002556-06 (Keller, Kim, Shamoon)

NCATS

3/22/2018 - 2/28/2023

\$19,493,686

Clinical and Translational Science Award

The mission of this award is to enhance clinical and translational research by promoting multidisciplinary collaboration, addressing translational "blocks" in research, providing infrastructure and collaborative support, and enhancing training, education, and career development.

Role: Statistician

R01CA275521 (Shuter)

NCI

4/1/2023 - 3/31/2028

\$2,963,119

Trial of a harm reduction strategy for people with HIV who smoke cigarettes

The major goal of this project is to complete a randomized controlled trial of a harm reduction intervention for people with HIV who smoke cigarettes.

Role: Biostatistician

1U01DK134988 (Isasi): NOA delayed. NIDDK promised for a start of 2/1/2024.

NIDDK

12/1/2022 - 11/30/2027

\$4,081,213

Metabolic, Behavioral and social determinants of youth onset T2D

This study will contribute to identifying the main risk factors that put children at risk of developing YT2D. The study will shed light on the factors that explain health disparities in Y2TD.

Role: Co-Investigator

Past grants (not a complete list)

Bravenet Subcontract

7/1/2022 - 6/30/2023 \$68,808

BraveNet Coordinating Center at Einstein

The major goals of this project are to help to launch PRIMIER (Patients Receiving Integrative Medicine Interventions Effectiveness Registry), and use the data to conduct innovative research by comparing the impact of various integrative therapies on patient-reported and clinical outcomes.

Role: Subcontract PI/Co-Investigator

NIH 5U01AT010598 (Dusek)

9/22/2020 - 8/31/2023

Acupuncture in the Emergency Department for Pain Management: A BraveNet Multi-Center Feasibility Study

This is a multi-site feasibility study of delivering acupuncture to patients presenting with moderate to severe pain in 3 Emergency Departments of the BraveNet Practice Based Research Network. Our U01 includes the BraveNet Coordinating Center at Einstein and BraveNet clinic-affiliated ED sites: University Hospitals/Case Western Reserve University; Vanderbilt University Medical Center; and University of California-San Diego. A total of 150 subjects (50 per site) will be randomized to either Acupuncture or Usual Care (1:1 allocation). In addition, RCT participating patients and ED providers at each site will participate in structured interviews to support implementation of a future, multi-site, definitive RCT

Role: Co-Investigator

NCI 5R01CA192954 (Shuter)

8/3/2015 - 7/31/2023 (NCE)

RCT of an Internet Cessation Program Plus Online Social Network for HIV + Smokers

This study will examine the efficacy of a web-based smoking cessation program and online social network specifically developed for people living with HIV.

Role: Biostatistician

Bravewell Collaborative (Mckee)

07/01/16-12/31/20

BraveNet Coordinating Center at Einstein

To help to launch PRIMIER (Patients Receiving Integrative Medicine Interventions Effectiveness Registry) and use the data to conduct innovative research by comparing the impact of various integrative therapies on patient-reported and clinical outcomes.

Role: Statistician

NIH/NIDDK 1R18DK118471-01 (Golestaneh)

09/06/18- 07/31/21

Peer mentorship to improve outcomes in patients on maintenance hemodialysis

To evaluate the feasibility, implementation and outcomes of a peer-mentor program designed to increase self-management skills in a pragmatic study of patients on hemodialysis.

Role: Statistician

NIH/NIAID R01 (Achkar)

07/02/16-07/01/21

Host Biomarker for M. Tuberculosis Infection Activity in HIV-Infected Persons

To identify single and/or multi-platform biomarkers as correlates for M. tuberculosis infection activity to predict the development of active tuberculosis in HIV-infected individuals.

Role: Co-investigator

NIH/NHLBI R03 (Chambers)

09/15/17-07/31/20

Housing mobility, hypertension self-management, and healthcare utilization among Bronx Latinos

To examine the role of residential mobility in risk of emergency department visit and hospitalization, and disease management among participants with hypertension.

Role: Co-investigator

NIH/NIAID 1R01HL132794-01 (Kaplan, Kizer)

04/01/16-03/31/20

Evaluation of HIV-associated Cardiac Dysfunction in Women

To evaluate HIV infection and associated factors as determinants of myocardial dysfunction and disease as assessed by state-of-the-art echocardiography and magnetic resonance imaging in a longitudinal cohort of women with or at risk for HIV infection

Role: Co-investigator

AHA MCPR (Bortnick)

07/01/17- 06/30/19

Mineral Metabolism Markers and Risk of Long-term Valvular and Annular Calcification in a Multi-Ethnic Cohort

To evaluate the role of major circulating mineral regulators as risk factors for progression of aortic valve and mitral annular calcification using serial computed tomography measures in a multi-ethnic study of atherosclerosis.

NIH/NIDA R01 (Shuter)

07/01/13-06/30/19

A trial of Positively Smoke Free group therapy for HIV-infected smokers

To conduct a definitive randomized control trial of Positively Smoke Free group cessation therapy versus standard care for PLWHA smokers.

Role: Biostatistician

NIH/NHLBI (Kaplan)

06/01/13- 05/31/19

Hispanic Community Health Study -- Bronx Field Center

To recruit 4,000 Hispanic/Latino adults 18-74 years of age in Bronx NY and obtain long-term follow-up on CVD, asthma, COPD, diabetes, cancer, and other health outcomes, as part of the multicenter Hispanic Community Health Study.

Role: Biostatistician

NIH/3 T32 GM007288-43S1

07/01/16- 06/30/17

Administrative Supplement for Research Curriculum Development

To develop an innovative multi- pronged strategy to incorporate additional training in study design, research methodology, technical skills, and team science into the current pre-doctoral programs at Einstein.

Role: Co-investigator

Albert Einstein Cancer Center Pilot Project Award (Shuter)

12/20/16-06/30/17

A feasibility study of Circulation as a platform for tobacco treatment in low SES smokers

NIH (ICEMR Daily subcontract on Taylor PI)

07/01/12-06/30/17

Role of type INF I during mild Plasmodium falciparum infection and association with clinical disease in Malawi

To enhance the Malawi ICEMR goals of understanding the determinants of malarial disease. Host immune responses alter the development of malarial disease and thus this proposal will provide a further characterization of host responses to inform disease models. We will also address how changes in transmission intensity through malaria control interventions in the parent study may alter host response and disease presentation. Finally, this proposal will further the training mission of the Malawi ICEMR by training Malawian scientists and building in country laboratory and scientific capacity in malaria immunology.

Role: Biostatistician

NIH/NINDS 1R01NS065195-01A1 (Bachoo)

07/01/10-06/30/15

Genetic Dissection of Glioblastoma: Cell of Origin

To provide essential insight into Glioblastoma tumor cells and their normal cellular counterparts in the brain to assist in generating accurate, faithful mouse models of the disease.

Role: Subcontract PI

NIH/NIAID 1 R21 AI105684-01A1 (Achkar)

08/15/13-07/31/15

Novel serological biomarker for rapid TB diagnosis

To develop a simple serologic assay for the diagnosis of active tuberculosis based on antibody response against mycobacterial vesicle-associated proteins.

Burroughs-Wellcome Fund

09/01/13-08/30/15

Pre-doctoral Training Grant

To unify laboratory and population sciences. I am serving as co-mentor of a trainee. A key component of Einstein's eCLIPSE program is interdisciplinary co-mentoring.

NCI R21 CA169960 (Bauman)

04/01/13-03/31/15

The Feasibility of a Peer-Driven Pap Testing Intervention for Young Bronx Women

Using principles of community-based participatory research, this will build on the existing cervical cancer screening literature and draw on successful efforts in HIV prevention to connect with young women who are not adherent to Pap screening guidelines.

NIH/NIAID (Daily 1 R01 AI077623-01)

03/01/11-06/30/13

Analysis of novel in vivo derived Plasmodium falciparum transcriptional profiles

Infection with the malaria parasite Plasmodium falciparum leads to widely different clinical conditions in children- ranging from mild flu-like symptoms to coma and death. Despite the immense medical implications, the genetic and molecular basis of this diversity remains largely unknown. This study sets out to define the mechanisms of cerebral malaria through host and parasite transcriptional profiling and other clinical data to provide insight into pathogenesis and therapeutic discover.

NIH/NHLBI (Kaplan; continuation of HHSN268200625235C)

11/01/11-03/31/13

Hispanic Community Health Study -- Bronx Field Center

To recruit a cohort of Hispanic adults, aged 18-74, who will participate in a prospective observational study of cardiovascular disease (CVD), respiratory diseases including asthma and chronic obstructive pulmonary disease (COPD), diabetes, cognitive impairment, and sleep, hearing, dental, kidney, and liver disorders.

NCRR 1UL1RR025750-01 (Shamoon)

06/01/09-04/30/13

Clinical & Translational Science Award

To enhance clinical and translational research by promoting multidisciplinary collaboration addressing translational blocks in research, providing infrastructure and collaborative support, and enhancing training, education, and career development.

NIH/P30 CA01330-35 (Goldman)

06/01/09-06/30/12

Cancer Center Support Grant

The Biostatistics Shared resource provides statistical expertise and collaboration to investigators in the Albert Einstein Cancer Center.

Breast Cancer Research Foundation (Rohan)

10/01/11-09/30/12

Proteomic prediction of breast cancer risk, cohort analyses of risk factors for breast cancer, and single cell gene expression profiling of breast tissue

To examine the feasibility of performing proteomic profiling of formalin-fixed paraffin-embedded breast tissue, to develop and optimize a tissue-specific protocol for use of probes on formalin-fixed paraffin-embedded breast tissue, and to undertake analyses of risk factors for breast cancer in a large, prospective study.

Breast Cancer Research Foundation (Rohan)

10/01/10- 09/30/11

Proteomic Prediction of Breast Cancer Risk and Cohort Analyses of Risk Factors for Breast Cancer

To examine the feasibility of performing proteomic profiling of formalin-fixed paraffin-embedded breast tissue and to undertake analyses of risk factors for breast cancer in a large, prospective study.

NIH/NCI Pilot award (Segall/AECC)

02/01/10-01/31/10

Identification of Invasion Genes in Head and Neck Cancer

To identify candidate invasion genes from patient microarrays and validate their contributions to invasion using in vivo and in vitro assays.

National Science Foundation (Award No.: 0733286: Co-PI)

09/01/07-05/31/09

ASSISTments Meets Inquiry

To produce an intelligent tutoring system, for middle school physical science in 6 content areas, capable of tutoring and assessing inquiry skills that will generate specialized teacher reports by class, by student, by inquiry skill as well as a full set of micro-worlds that will serve as assessment item.

BIBLIOGRAPHY

A. Original Communications in Peer-reviewed Journals:

1. Valdez H, Connick E, Smith KY, Lederman MM, Bosch RJ, **Kim RS**, St Clair M, Kuritzkes DR, Kessler H, Fox L, Blanchard-Vargas M, Landay A; AIDS Clinical Trials Group Protocol 375 Team, Limited immune restoration after 3 years' suppression of HIV-1 replication in patients with moderately advanced disease. *AIDS*, 2002;16:1859-1866. (SCI; ISSN:0269-9370, IF:4.407)
2. Chauhan D, Li G, Auclair D, Hideshima T, Richardson P, Podar K, Mitsiades N, Mitsiades C, Li C, **Kim RS**, Munshi N, Chen L, Wong WH, Anderson K, Identification of genes

- regulated by 2-methoxyestradiol (2ME2) in multiple myeloma cells using oligonucleotide arrays, *Blood*, 2003; 101: 3606-3614. (SCI; ISSN:0006-4971, IF:11.847)
3. Munshi N, Hideshima T, Carrasco D, Shamma M, Auclair D, Davies F, Mitsiades N, Mitsiades C, **Kim RS**, Li C, Rajkumar SV, Fonseca R, Bergsagel L, Chauhan D, Anderson K, Identification of genes modulated in multiple myeloma using genetically identical twin samples *Blood*, Mar 2004; 103: 1799-1806. (SCI; ISSN:0006-4971, IF:11.847)
 4. Mildvan D, Bosch RJ, **Kim RS**, Spritzler J, Haas DW, Kuritzkes D, Kagan J, Nokta M, DeGruttola V, Moreno M, Landay A., Immunophenotypic Markers and Antiretroviral Therapy (IMART): T Cell Activation and Maturation Help Predict Treatment Response. *Journal of Infectious Diseases*, 2004;189:1811-1820. (SCI; ISSN:0022-1899, IF:6.344)
 5. Bachoo R*, **Kim RS*** (co-first authors), Ligon K*, Maher E, Brennan C, Billings N, Chan S, Li C, Rowitch D, Wong WH, DePinho R, Molecular diversity of astrocytes with implications for neurological disorders, *Proceedings of the National Academy of Sciences*, 2004; 101: 8384-8389. PMC420403 (SCI; ISSN:0027-8424, IF:9.423)
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 7. Goodison S, Sloan D, **Kim RS**, Li C, Popescu N, Urquidí V, The RhoGAP protein DLC-1 functions as a metastasis suppressor in breast cancer cells. *Cancer Research*, 2005;65: 6042-6053. PMC1360170 (SCI; ISSN:0008-5472, IF:8.556)
 8. Oh KJ, Barbuto S, Meyer N, **Kim RS**, Collier R, Korsmeyer S, Conformational Changes in BID, a Pro-apoptotic BCL-2 Family Member, upon Membrane Binding, *J. Biol. Chem.*, 2005; 280: 753-767 (SCI; ISSN:0021-9258, IF:4.258)
 9. Doherty L, Gigas DC, Kesari S, Drappatz J, **Kim RS**, Zimmerman J, Ostrowsky L, Wen PY. Pilot study of the combination of EGFR and mTOR inhibitors in recurrent malignant gliomas. *Neurology*, 2006;67:156-158, PMID:16832099 (SCI; ISSN:0028-3878, IF:8.166)
 10. **Kim RS**, Ji H, Wong WH, An improved distance measure between the expression profiles linking co-expression and co-regulation in mouse, *BMC Bioinformatics*, 2006;7:44. PMC1403805 (SCI-E; ISSN:1471-2105, IF:2.435)
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 13. Weitz R, Salden R, **Kim RS**, Heffernan N, Comparing Worked Examples and Tutored Problem Solving: Pure vs. Mixed Approaches, In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society*, Austin, TX, 2010, pp. 2876-2881.

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82. Berlot A, Fu X, Shea MK, Tracy R, Budoff M, **Kim RS**, Naveed M, Booth S, Kizer J, Bortnick A, Matrix Gla Protein and the Long-term Incidence and Progression of Coronary Artery and Aortic Calcification in The Multi-Ethnic Study of Atherosclerosis, *Atherosclerosis*, 2024 [in print]

B. Submitted Articles Under Review:

1. **Kim RS**, Kang S, Park MS, Kim I, Data integration using aggregate statistics from big data and survey: second-order delta-method and bootstrap inference based on Mosteller estimator
2. Carroll J, Dusek J, Gao Qi, **Kim RS**, Roseen E, Nicklas J, Staton E, Integrative Health Care for Adults with Headache: Analysis of a Multisite US Cohort of 159 Adults
3. Shuter J, **Kim RS**, Cleven KL, Stanton CA, Electronic cigarette use behaviors in people with HIV who smoke tobacco cigarettes.
4. Dusek JA, Kallenberg GA, Storrow AB, Hughes RM, Coyne CJ, Vago DR, Nielsen A, Karasz A, **Kim RS**, Surdam J, Segall T, Faryar KA, Dyer NL, Barton BA, McKee MD, ACUpuncture In The Emergency Department (ACUITY): Results from a BraveNet Multi-Center Feasibility Study
5. Bonuck K, Gao Q, Congdan Seth, **Kim RS**, Long COVID Disability Burden in US Adults: YLDs and NIH Funding Relative to Other Conditions
6. Rock R, Ferrel VK, Diaz C, Corro LG, Oki O, Ansah-Samuels E, Gao Q, **Kim RS**, Hassan I, Design of a Social Justice Curriculum to Expand Critical Consciousness Among Resident Trainees

C. Books, chapters in books, and review articles:

1. **Kim RS**, Opinion: *Critical point for countries to ramp up testing*, The Korea Times, March 24th, 2020

INVITED TALKS

1. *An Improved Distance Measure Between the Expression Profiles Linking Co-expression and Co-regulation in Mice*, Annual Meeting of the Classification Society of North America, Piscataway, NJ USA, May 10-13 2006, (Joint session with DIMACS workshop on Clustering Problems in Biological Networks)
2. *Preprocessing of Oligonucleotide Microarray: Normalization and Expression Index Computation*, NSF-Funded Second Plant Microarray Short Course on Design and Analysis of Plant Microarray Experimentation, Boston, MA USA, August 2-4, 2006.
3. *Defining Gene Regulatory Networks During Corticogenesis*, ICCES'08: International Conference on Computational and Experimental Engineering and Science, Honolulu, Hawaii, USA, March 18, 2008
4. *Challenges in Studying Food Insecurity in US Using Complex Survey Samples*, Department of Mathematics and Statistics, University of Massachusetts, Amherst, November 11, 2009
5. *Analysis of Nested Case-Control Designs: Weighted Partial Likelihood*, Department of Statistics, University of Connecticut, Storrs, April 18, 2012
6. *Analysis of the Mobile Phone Survey of the Haitian Population*, Capacity Building for Statistics, Research Design, and Evaluation in Developing Nations, Joint Statistical Meetings, San Diego, July 29, 2012
7. *Ten Things You Probably Misunderstood About the Nested Case-Control Study Design*, Division of Epidemiology and Biostatistics, St. John Research Institute, St. John's National Academy of Health Sciences, Bangalore, India, June 22, 2013
8. *Unified Governance Scores: A Latent Variable Analysis of Thirteen Measures of Governance*, Ewha Woman's University, January 14, 2014
9. *A Nationally Representative Economic Survey Five Months after the Haitian Earthquake Using Mobile Phones*, Webinar, Statistics-Without-Borders, February 23, 2016
10. *Propensity Score Methods for Proportional Hazards Models*, Research Institute of Applied Statistics, Sungkyunkwan University, Seoul, Korea, July 7, 2016
11. *Cost Analysis to Determine RSE Criteria: An Illustration with Non-specific Psychological Distress Incidence Rates*, New York City Department of Health and Mental Hygiene, Data Task Force, Long Island City, NY, August 17, 2016.
12. *Linear Mixed Effects Model for Longitudinal and Correlated Data: A Tutorial*, Bureau of Environmental Surveillance and Policy, New York City Department of Health and Mental Hygiene, New York, NY, September 20, 2016

13. *Analysis of Inspector Variability in the Restaurant Grading Program at New York City: A Regression Approach*, Bureau of Environmental Surveillance and Policy, New York City Department of Health and Mental Hygiene, New York, NY, September 29, 2016
14. *Review of the Reproducibility Issue and its Statistical Cause*, The Autumn Conference of the Korean Statistical Society, Seoul, Korea, November 11, 2017
15. *Prevalence Estimation by the Joint Use of Electronic Health Records and Population Health Surveys: A Demonstration Study Using New York City HANES and NYC Macroscopic*, Department of Mathematical Sciences, Korea Advanced Institute of Science & Technology, Daejeon, Korea, November 22, 2017
16. *Combining aggregate statistics from big data and probability survey: application to electronic health records and national health surveys*, Conference on Current Trends in Survey Statistics, Institute for Mathematical Sciences, Singapore, August 14, 2019
17. *Combining Statistics from Big Data and Probability Surveys: application to Korean National Health Insurance Data and National Health and Nutrition Examination Survey*, The 9th National Symposium of Official Statistics and Methodology of Korea, Hosted by Statistics Research Institute of Statistics Korea, Daejeon, Korea, October 23, 2019
18. [Session Organizer and Chair] *Matching of survey data, analysis of outcome dependent sampling, missingness and unmeasured confounding*, International Indian Statistical Association Conference, Mumbai IIT, December 2019
19. *Prevalence estimation by joint use of big data and health survey: A demonstration study using electronic health records*, Institute for Healthcare Delivery Science, Icahn School of Medicine at Mount Sinai, New York, October 7, 2020
20. *Health informatics*, Webinar series on Digital Therapeutics, Hosted by the Department of Bio and Brain Engineering at Korea Advanced Institute of Science & Technology (KAIST), Daejeon, Korea, May 7, 2021
21. *Data augmentation using aggregate statistics from big data and survey: second order delta-method and bootstrap inference based on Mosteller estimator*, New England Statistics Symposium, University of Connecticut, Storrs, May 25, 2022
22. *Data augmentation using aggregate statistics from big data and survey: second order delta-method and bootstrap inference based on Mosteller estimator*, 5th International Conference on Econometrics and Statistics, Ryukoku University, Kyoto, Japan, June 4-6, 2022
23. *Data augmentation using aggregate statistics from big data and survey: second order delta-method and bootstrap inference based on Mosteller estimator*, Paul H. Chook Department of Information Systems and Statistics Baruch College, City University of New York, New York, November 2, 2022

24. *Overview of Phase I Trial Designs*, Mathematical Science Colloquium, Department of Mathematical Sciences, Ulsan National Institute of Science & Technology, Korea, January 24, 2024

POSTER PRESENTATIONS

1. **Kim RS**, Li L, Isasi C, Philis-Tsimikas A, Moon J, Liu J, Wolfe DS, Levy C, *GDM Patients and Prognostic Factors for Subsequent Type 2 Diabetes Mellitus—An Electronic Cohort Review*, American Diabetes Association's 84th Scientific Sessions, Orlando, June 20-24, 2024

TEACHING

Teaching at Einstein

Course	Program	Course Title	Academic Years
BIST11273	Public Health Certificate	Principles of Biostatistics	2009 Fall
PUB6200	MPH	Principles of Biostatistics	2010 Summer
PUB6200	MPH	Principles of Biostatistics	2011 Fall
PUB6200	MPH	Principles of Biostatistics	2012 Fall
7010A	Graduate Division	QSBR I*	2014 Spring
7010A	Graduate Division	QSBR I	2015 Spring
7010A	Graduate Division	QSBR I	2016 Spring
7010A	Graduate Division	QSBR I	2017 Spring
7010A	Graduate Division	QSBR I	2019 Spring
7010A	Graduate Division	QSBR I	2020 Fall
7010A	Graduate Division	QSBR I	2021 Fall
7010A	Graduate Division	QSBR I	2022 Fall
7010A	Graduate Division	QSBR I	2023 Fall

*QSBR = Quantitative Skills for the Biomedical Researcher I

Teaching at Worcester Polytechnic Institute

Course	Institution	Course Title	Academic Years
MA 2610	WPI	Statistics For Life Science	2008, 2009
MA 2611	WPI	Applied Statistics I	2007, 2008, 2009
MA 3627	WPI	Applied Statistics III	2008
MA 540	WPI	Probability & Mathematical Statistics I	2007
MA 541	WPI	Probability & Mathematical Statistics II	2007
MA 542	WPI	Regression Analysis	2008, 2009
MA 549	WPI	Analysis of Lifetime Data (Survival Analysis)	2009
MA 559	WPI	Statistics Graduate Seminar	2008, 2009
MA 595	WPI	Longitudinal and Correlated Data Analysis	2008, 2009
STAT	YUST	Introduction to Statistics	2007