

Curriculum Vitae

Dong-Yun Kim, Ph.D.

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Current Position Mathematical Statistician, Office of Biostatistics Research, National Heart, Lung and Blood Institute, National Institutes of Health.

Research Interests Sequential monitoring in clinical trials; change point detection and estimation in survival and spatial-temporal data; mixture models in statistical genetics and bioinformatics.

Education Ph. D. in Statistics (2003), University of Michigan, Ann Arbor.
Advisor: Professor Michael Woodroffe.

Employment

August 2013-
Present Mathematical Statistician, Office of Biostatistics Research, National Heart, Lung and Blood Institute, National Institutes of Health.

July 2016-
December 2022 Adjunct Associate Professor, Department of Psychiatry and Behavioral Medicine, Virginia Tech Carilion School of Medicine.

August 2007-July
2013 Assistant Professor (tenure-track), Department of Statistics, Virginia Tech.

June 2012- July
2013 Assistant Professor, Department of Psychiatry and Behavioral Medicine, Virginia Tech-Carilion School of Medicine.

August 2003-July
2007 Assistant Professor (tenure-track), Department of Mathematics, Illinois State University.

March 2007-July
2007 Statistical consultant, College of Nursing, Michigan State University.

August 2005-July
2007 Visiting Assistant Professor, Department of Statistics and Probability, Michigan State University.

September 2002-
June 2003 Research assistant (GSRA) for Professor Woodroffe, Department of Statistics, University of Michigan.

April 2001-April 2003	Statistical consultant, Hyundai/KIA America Technical Center, Ann Arbor, Michigan.
June 2002-August 2002	Computer consultant for Summer Session, Inter-university Consortium for Political and Social Research (ICPSR), University of Michigan.
May 2002-August 2002	Research assistant, Center for Statistical Consultation and Research (CSCAR), University of Michigan.
May 1997-April 2002	Graduate Student Instructor, Department of Statistics, University of Michigan.
March 1999-August 2001	Statistical consultant, Environmental Research Institute of Michigan (ERIM).
June-September 2000	Statistical consultant, Mustang Division, Ford Motor Company.

Current/past work at NHLIB

Provide scientific review of protocols and statistical consultation for clinical trials on NIH-funded intra- and extramural grants; review of primary outcome analysis for journal publication; participate meetings including DSMB, steering committee and protocol review committees.

Current intramural projects participating as a co-investigator:

- A Phase 1 Study of Intravenous ZM-A001 in Healthy Volunteers, 2022-2024
- MRI Technical Development, 2021-2025
- Longitudinal Observational Study of Severe Asthma, 2013-2032
- Tissue-Specific Immune Responses to PPD in the Human Lung, 2021-2025

Past intramural projects as a co-investigator:

- PD-AML (Pembrolizumab and Decitabine for Refractory or Relapsed Acute Myeloid Leukemia), 2016-2021.
- PEARL15 (A Pilot Study of Biomarkers for Personalized Early Assessment of Response During Salvage Chemotherapy in Patients with Relapsed or Refractory Acute Myeloid Leukemia), 2015-2020.

List of current extramural projects:

- RECOVER-CT (Researching COVID to Enhance Recovery Clinical Trial), 2022-2025
 - RECOVER-VITAL
 - RECOVER-SLEEP
 - RECOVER-AUTO
 - RECOVER-NEURO

- RACECARS (Randomized Cluster Evaluation of Cardiac Arrest Systems), 2020-2024.
- PRECISIONS (Prospective tReatment EffiCacy in IPF uSIng genOtype for Nac Selection), 2020-2024.
- REHAB-PH (Repurposing a histamine antagonist to benefit patients with pulmonary hypertension), 2019-2024.
- CAPTURE (COPD Assessment in Primary Care To Identify Undiagnosed Respiratory Disease and Exacerbation Risk), 2018-2023.

Past extramural projects:

- OPTIMIZE (OPTIMIZing Treatment for Early Pseudomonas aeruginosa Infection in Cystic Fibrosis: The Multicenter Randomized Trial), 2014-2017.
- HALF-PINT (Heart And Lung Failure-Pediatric Insulin Titration Trial), 2012-2017.
- ABC-PICU (Age of Blood in Children in Pediatric Intensive Care Units), 2014-2018.
- AsthmaNet (Asthma Network): 8 multiple clinical studies, 2012-2019.
- COLCORONA(Colchicine Corona virus Sars-CoV2 Trial), 2020
- PTC (Pulmonary Trials Consortium): 4 multiple clinical studies, 2015-2020.
- TEACH (Testing the Effect of Adding CHronic Aithromycin to Inhaled Tobramycin), 2015-2020.
- HCMR-Novel Predictors of Outcome in Hypertrophic Cardiomyopathy, 2014-2020.
- PHANTOM (Pulmonary Hypertension and Anastrozole Trial), 2017-2021.
- HAPIN (Household Air Pollution and Health), 2017-2021.
- TRANSFORM-HF (ToRsemide compArisoN with furoSemide FOR Management of Heart Failure), 2017-2022.
- STRIVE-IPF (Study of therapeutic plasma exchange, rituximab, and intravenous immunoglobulin for acute exacerbations of idiopathic pulmonary fibrosis), 2017-2022.

Professional Services

- Caucus for Women in Statistics (CWS): president 2023.
- Korean International Statistical Society (KISS): Board of Directors, 2021-2026.
- Organizing committee for Michael Woodrooffe Memorial Conference, Ann Arbor MI, 2023.

- Co-chair for NHLBI Biostatistics Workshop on Clinical Trial Designs: Innovative Endpoints and Futility Monitoring, 2023.
- Executive Committee for Women in Statistics and Data Science (WSDS), Bellevue, Washington, 2023
- Organizer for topic contributed session “Making Sense of a Changing World: Change Point Inference”, JSM 2023
- Chair, Organizing committee for KWiSE Forum Series (US and South Korea): Impact of Climate Change on Human Life, 2022.
- Organizer, invited session “The Early Bird Catches the Worm: Sequential Decision Making as a Framework in Time of COVID-19 Pandemic”, JSM 2022
- Chair and organizer, invited session “All for one, one for all: How to run multiple networks of COVID-19 clinical trials on a common platform using Bayesian Method”, SCT 2022
- Co-chair, MAR session, UKC 2022.
- Chair and organizer, invited session “Share their experiences about COVID-19”, JSM 2021
- CWS: chair, travel award committee, 2022
- CWS: program committee elected 2018-2019, 2021-2022
- Chair, Organizing committee for KWiSE Forum Series: COVID-19 in US and South Korea, 2020-2021.
- Organizing committee member for KWSE-KWiSE Webinar series, 2020-2022
- Chair, Organizing committee for Florence Nightingale day, collaborated with ASA, CWS and hosted by KWiSE, 2020.
- Member of Statistical Advisory Board for PLOS ONE, 2015-2018.
- Associate Editor for Communications for Statistical Applications and Methods (CSAM), 2015-2018.
- Co-chair, KWiSE NIH/DC chapter symposium 2019, Vienna, VA.
- Chair, invited session, “Sequential monitoring and change point detection”, IWSM 2019
- Chair, contributed paper session, “Missing Data”, ENAR 2019.
- Organizer and chair, invited session, “Affordable Clinical Trials through Innovative Technology.” JSM 2018.
- Local Organizing Committee for US-Korean Conference (UKC) 2017, Crystal City, VA.
- Measurement-Based Care (MBC) Committee, Department of Psychiatry and Behavioral Medicine, Virginia Tech-Carilion School of Medicine, Roanok, VA. 2017.
- Caucus for Women in Statistics Committee on Nominations, 2016-2017.
- First responder, mentoring program for Caucus for Women in Statistics, 2017-2018.

- Organizer, Health Services Research Seminar Series, Virginia Tech, 2012-2013.
- Judge, 2013 Student Showcase, Sigma Xi, The Scientific Research Society.
- Reviewer for: Biometrics, U.S. Preventive Services Task Force, Nature-Medicine, Nature Cardiovascular Research, The Annals of Applied Statistics, The American Statistician, PLOS ONE, Statistics and Probability Letters, Sequential Analysis: Design Methods and Applications, Communications in Statistics-Simulation and Computation, Computational Statistics and Data Analysis, Statistical Methodology, IMS Monograph Lecture Series, Lifetime Data Analysis.

Services at NHLBI/NIH, Bethesda, MD:

- Intramural Protocols Review, since 2013.
- Served as a reviewer for COVID-19 (RADx-UP NOSI 121), 2020
- Served as a reviewer for RECOVER initiative (the Research Opportunity Announcement (ROA) for Clinical Trials for the Prevention and/or Treatment of Post-Acute Sequelae of SARS-CoV-2 infection (PASC)), 2022
- President at Korean Women in Science and Engineering (KWiSE), NIH chapter, 2019-2022.
- DCVS Portfolio Analysis Working Group, 2017-2019.
- Member, NHLBI Data Science Working Group, co-lead for data science NHLBI staff training subgroup, 2018.
- Member, Addressing Social Determinants of Health and Health Inequities Working Group, lead for portfolio analysis subgroup, 2017-2019.
- Member, Obesity working group, 2014-2018.
- Mentor, mentoring program for KWiSE NIH-DC chapter, 2017-2022.
- Organizer for Office of Biostatistics Research Seminar Series, 2014-2019.
- Organizing committee member for KWiSE NIH-DC chapter symposium, 2017-2019, Bethesda, MD.
- Organizing Committee for NHLBI Workshop, "Recent Advances and Challenges in Statistical Methods", September 26-27, 2016
- Giving a series of 10 lectures for summer interns, Summer 2016.
- Big Data to Knowledge working group (BD2K), 2014-2017.
- Mentor for a summer intern, 2014, 2016, 2018, 2019.

Mentoring (NIH)

Awards

Group Award to NHLBI RECOVER TEAM from the NHLBI director for outstanding dedication and leadership in implementing and overseeing the NIH Researching COVID to Enhance Recovery (RECOVER) Initiative, 2022.

Achievement Award from Korea Women Scientists and Engineers (KWSE). This is an award given for commitment to developing collaboration and communication between Korean women scientists in South Korea and Korean-American women scientists in the US, 2022.

Grants and Awards before 2013

Interdisciplinary Graduate Education Program (IGEP) for Remote Sensing. Role: Core faculty. The Graduate School, Virginia Tech. (2012-2015).

Patient-Centered Medical Home Pilot Study. Role: P.I. Granting agency: Virginia Tech Arlington Innovation Center for Health Research. (2011-2013).

Ranking Brook Trout Habitats in West Virginia and Maryland to Resiliency to Climate Change. Role: P.I. (with E. Smith). Subcontract via James Madison University. Granting agency: U.S. Fish and Wildlife Services. (2010 -2012).

Development and Assessment of Tools for Evaluating Stream Community Responses to Climate Change along Thermal Gradients. Role: P.I. (with E. Smith). Granting agency: U.S. Forest Service Southern Research Station. (2010-2013).

Dynamic Interactions Among People, Livestock, and Savanna Ecosystems Under Climate Change (BCS 0709671). Role: sole P. I. Subcontract via Michigan State University. Granting agency: National Science Foundation. (2007-2010).

Prototyping a Rangeland Decision Support System (NASA-SBR) Role: Co-investigator. Sponsored by Applied Geosolutions, LLC with Michigan State University. (June-August 2007).

Role of Plastidic Dicarboxylate Translocators in Plant Ammonia Assimilation (NSF grant MCB-0348074). Role: Co-investigator. (June-July 2006).

University Research Grant (2005-2006), Illinois State University.

Supplemental Travel Grant (2005-2006), Illinois State University.

University Research Grant (2004-2005), Illinois State University.

Student Scholarship for the 2003 Spring Research Conference (2003), Dayton, Ohio.

Outstanding Teaching Award (1998-1999, 2000-2001), Department of Statistics, University of Michigan.

Outstanding First Year Applied Master's Student Award (1996-1997), Department of Statistics, University of Michigan.

Departmental Fellowship (1996-1997), Department of Statistics, University of Michigan.

Publications

Green, S. J., Velazquez, E. J., Anstrom, K. J., Clare, R. M., DeWald, T. A., Psocka, M. A., Ambrosy, A. P., Stevens, G., Rommel, J. J., Alexy, T., Ketema, F., **Kim, D.**, Desvigne-Nickens, P., Pitt, B., Eisenstein, E. L., Mentz, R. (2023) Effect of Torsemide vs Furosemide on Symptoms and Quality of Life Among Patients Hospitalized for Heart Failure: The TRANSFORM-HF Randomized Clinical Trial. *Circulation*, In press.

Lee, J., Calcagno, C., Feuerstein, I. M., Solomon, J., Mani, V., Huzella, L., Castro, M. A., Laux, J., Reeder, R. J., **Kim, D.**, Worwa, G., Thomasson, D., Hagen, K. R., Ragland, D. R., Kuhn, J. H., Johnson, R. F. (2023) Magnetic resonance imaging for monitoring of hepatic disease induced by Ebola virus: a nonhuman primate proof-of-concept study. *Microbiology Spectrum*, In press

Menta, R. J., Anstrom, K. J., Eisenstein, E. L., Sapp, S., Greene, S. J., Morgan, S., Testani, J. M., Harrington, A. H., Sachdev, V., Kelema, F., **Kim, D.**, Desvigne-Nickens, P., Pitt, B., and Velazquez, E. J. (2023) Effect of Torsemide vs Furosemide after discharge on all-cause mortality in patients hospitalized with heart failure: the TRANSFORM-HF randomized clinical trial, *JAMA* 329 (3): 214-223.

Heydari, B., Satriano, A., Jerosch-Herold, M., Kolm, P., **Kim, D.**, Cheng, K., Choi, Y.L., Antiochos, P., White, J.A., Mahmood, M., Chan, K., Raman, B., Desai, M.Y., Ho, C.Y., Dolman, S.F., Desvigne-Nickens, P., Maron, M.S., Friedrich, M., G., Schulz-Menger, J., Piechnik, S.K., Appelbaum, E., Weintraub, W.S., Neubauer, S., Kramer, C.M., Kwong, R.Y. (2023) 3-Dimensional Strain Analysis of Hypertrophic Cardiomyopathy: Insights From the NHLBI International HCM Registry. *JACC: Cardiovascular Imaging*. Vol 16 (4) 478-491.

Wang, H., Seidel, J., Bartos, C., Byurm, R., Sayre, P. J., Cooper, K., Cong, Y., **Kim, D.**, Calcagno, C., Kuhn, J. H., Crane, A., Wada, J., Johnson, R. F., Hammound, D. A., and J. Lee. (2022) Intramuscular F-FDG

Administration for Successful PET Imaging of Golden Hamsters in a Maximum Containment Laboratory Setting. *Viruses*, 14, 2492.
<https://doi.org/10.3390/v14112492>

Clasen, T., Howard, H. C., Thompson, L. M., Kirby, M. A., Balakrishnan, K., Díaz-Artiga, A., McCracken, J. P., Rosa, g., Steenland, K., Younger, A., Aravindalochanan, V., Barr, D. B., Castañaza, A., Chen, Y., Chiang, M., Clark, M. L., Sarada, G., Hartinger, S., Jabbarzadeh, S., Johnson, J.A., **Kim, D.**, Lovvorn, A.E., McCollum, E.D., Monroy, L., Moulton, L. H., Mukeshimana, A., Mukhopadhyay, K., Naeher, L.P., Ndagijimana, F., Papageorghiou, A., Piedrahita, R., Pilarisetti, A., Puttaswamy, N., Quinn, A., Ramakrishnan, U., Sambandam, S., Sinharoy, S.S., Thangavel, G., Underhill, L.J., Waller, L.A., Wang, J., Williams, K.N., Rosenthal, J.P., Checkley, W., Peel, J.L. and the HAPIN Investigators. (2022) Liquefied petroleum gas versus biomass cooking and effects on birthweight, *NEJM* Vol 397, No 19.

Heydari, B., Satriano, A., Jerosch-Herold, M., Kolm, P., **Kim, D.**, Anticochos, P., White, J., Cheng, K., Choi, Y.L., Mahmood, M., Chan, K., Raman, B., Desai, M., Ho, C., Dolman, S., Devigne-Nickens, P., Maron, M., Friedrich, M., Schulz-Menger, J., Pienchnik, S., Appelbaum, E., Weintraub, W., Neubauer, S., Kramer, C. and Kwong, R. (2022) 3-Dimensional Strain Analysis of Hypertrophic Cardiomyopathy: Insights from the NHLBI International HCM Registry. *JACC Cardiovascular Imaging*, In Press. <https://doi.org/10.1016/j.jcmg.2022.10.005>

Eisenstein, E. L., Sapp, S. Y., Harding, T., Harrington, A., Velazquez, E. J., Mentz, R. J., Greene, S. J., Sachdev, V., **Kim, D.**, and Anstrom, K. J. (2022) Ascertaining death events in a pragmatic clinical trial: Insights from the TRANSFORM-HF Trial. *J of Cardiac Failure* Vol. 10, 1563-1567
<https://doi.org/10.1016/j.cardfail.2022.01.020>

Goswami, M., Gui, G., Dillon, L.W., Lindblad, K. E., Thompson, J., Valdez, J., **Kim, D.**, Oetjen, K. A., Destefano, C. B., Smith, D. M., Tekleab, H., Li, Y., Dagur, P., Hughes, T., Marte, J. L., Rivero, J. Klubo-Gwiedzinksa, J., Gulley, J. L., Calvo, K. R., Lai, C. and Hourigan, C. S. (2022) Pembrolizumab and Decitabine for Refractory or Relapsed Acute Myeloid Leukemia. *J Immunother Cancer*, 10 (1) doi: 10.1136/jitc-2021-003392

Martinez, F. J., Yow, E. Flaherty, K. R., Snyder, L. D., Durheim, M. T., Wisniewski, S. R., Sciurba, F. C., Raghu, G. Brooks, M. M., **Kim, D.**, Dilling, D. F., Criner, G. J., Kim, H., Belloli, E. B., Nambiar, A. M.,

Scholand, M. B., Anstrom, K. J. and Noth, I. (2021) Effect of Antimicrobial Therapy on Respiratory Hospitalization or Death in Adults with Idiopathic Pulmonary Fibrosis: The CleanUp-IPF Randomization Clinical Trial, *JAMA*, 325 (18): 1841-1851.

Greene, S.J., Velazquez, E.J., Anstrom, K.J., Eisenstein, E.L., Sapp, S., Morgan, S., Harding, T., Sachdev, V., Ketema, F., **Kim, D.**, Desvigne-Nickens, P., Pitt, B. and Mentz, R.J. (2021) Pragmatic Design of Randomized Clinical Trials for Heart Failure: Rationale and Design of the TRANSFORM-HF Trial. *JACC Heart Failure*, Vol 9, No 5.

Chen, A., Zhang, J., Zhao, L., Rhoades, R. D., **Kim, D.**, Wu, N., Liang, J. and Chae, J. (2021) Machine-learning Enabled Wireless Wearable Sensors to Study Individuality of Respiratory Behavior. *Biosensors and Bioelectronics*, vol 173, 1.

Benjamin, E.J., Go, A.S., Desvigne-Nickens, P., Anderson, C.D., Barry, M.J., Casadei, B., Chen, L.Y., Crijns, H.J.G.M., Freedman, B., Gelder, I.C.B., Healey, J.S., Kamel, H., **Kim, D.**, Landefeld, C.S., Link, M.S., Lopes, R.D., Lubitz, S.A., McManus, D.D., Noseworthy, P.A., Perez, M.V., Piccini, J.P., Schnabel, R.B., Singer, D.E., Tieleman, R., Hills, M.T., Turakhia, M.P., Cooper, L.S., Al-Khatib, MD, S.M. (2021) Research Priorities in Atrial Fibrillation Screening: A Report from a National Heart, Lung, and Blood Institute Virtual Workshop. *Circulation*, Vol 143, (4)

Kim, D. and Wu, Y. (2020) Confidence interval for change point in the hazard rate with staggered entry. *International Journal of Statistics and Probability*. Vol 9, No. 6. DOI:10.5539/ijsp.v9n6p9

Han, M. K., Ye, W., **Kim, D.** and Woodruff, P. Design of the Redefining Therapy in Early COPD Study (2020) *Chronic Obstructive Pulmonary Diseases*, Vol 7, (4).

Kramer, C., DiMarco, J. P., Kolm, P., Ho, C., Kwong, R. Y., Desai, M. Y., Desvigne-Nickens, P., Dolman, S., Appelbaum, E., Friedrich, M., Geller, N., Jerosch-Heroid, M., **Kim, D.**, Maron, M., Schulz-Menger, J., Piechnik, S., Zhang, C., Wlatkins, H., Seitraub, W. S., Neubauer, S. (2020) Predictors of Clinically Significant Atrial Fibrillation in the NHLBI Hypertrophic Cardiomyopathy Registry (HCMR). *Journal of the American College of Cardiology* Vol. 75, No. 11

Clasen, T., Checkley, W., Peel, J.L., Balakrishnan, K., McCracken, J., Rosa, G., Thompson, L., Boyd Barr, D., Clark, M., Johnson, M., Waller, L., Jaacks, L., Steenland, K., Miranda, J., Chang, H., **Kim, D.**, Rosenthal, J. and HAPIN Investigators. (2020) Design and Rationale of the Household Air Pollution Intervention Network (HAPIN) Study: A multi-country randomized controlled trial to assess the effect of liquefied petroleum gas stove and continuous fuel distribution on household air pollution and health. *Environmental Health Perspectives*, Vol. 128, No. 4.. DOI 10.1289/EHP6407

Anstrom, K. J., Flaherty, K. R., Edwards, R. H., Albright, J. A., Baucom, A., Brooks, M., Clark, A. B., Clausen, E., Durheim, M., **Kim, D.**, Kirchner, J., Oldham, J. M., Punturieri, A., Snyder, L., Wilson, A., Wisniewski, S., Yow, E. and Martinez, F. J. (2020) Design and Rationale of a Multi-Center, Pragmatic, Open-Label Randomized Trial of Antimicrobial Therapy – The Study of Clinical Efficacy of Antimicrobial Therapy Strategy Using Pragmatic Design in Idiopathic Pulmonary Fibrosis (CleanUP-IPF) Clinical Trial. *Respiratory Research*, 12;21 (1): 68

Neubauer, S., Kolm, P., Ho, C. Y., Kwong, R. Y., Desai, M. Y., Dolman, S. F., Appelbaum, E. Desvigne-Nickens, P., DiMarco, J. P., Friedrich, M. G., Geller, N., Harper, A. R., Jarolim, P., Jerosch-Herold, M., **Kim, D.**, Maron, M. S., Schulz-Menger, J., Piechnik, S. K., Thomson, K., Zhang, C., Watkins, H., Weintraub, W. S., and Kramer, C. M. (2019) Distinct Subgroups in Hypertrophic Cardiomyopathy: Baseline Results from HCMR (NHLBI HCM Registry). *Journal of the American College of Cardiology*, 74 (19); 2333-2345.

Wong, H.Y., Sung, A.D., Lindblad, K.E., Sheela, S. Roloff, G.W. Rizzieri, D., Goswami, M. Mule, M.P., Ramos, N.R., Tang, J. Thompson, J., DeStefano, C.B., Romero, K., Dillon, L.W., **Kim, D.**, Lai, C. and Hourigan, C.S. (2019) Molecular Measurable Residual Disease Testing of Blood During AML Cytotoxic Therapy for Early Prediction of Clinical Response. *Frontiers in Oncology*, Vol 8, Article 669.

Kim, D., Han, S. and Youngblood, M. (2018) Sequential patient recruitment monitoring in multi-center clinical trials. *Communications for Statistical Applications and Methods*. Vol. 25 No. 5, 1-12.

Kramer, C. M., Appelbaum, E., Desai, M. Y., Desvigne-Nickens, P., DiMarco, J. P., Dolman, S., Friedrich, M. F., Geller, N., Ho, C. Y., Jerosch-Herold, M., **Kim, D.**, Kolm, P., Kwong, R. Y., Maron, M. s., Schulz-Menger, J., Piechnik, S., Watkins, H., Weintraub, W. S., and Neubauer, S.

(2018). Correlates of Myocardial Fibrosis in Hypertrophic Cardiomyopathy. *Circulation*, Vol. 138, No.

Lindblad, K.E., Thompson, J. Gui, G. Valdez, J. Worthy, T. Tekleab, H. Hughes, T. Goswami, M. Oetjen, K. **Kim, D.**, Dillon, L. DeStefano, C. Lai, C.E. and Hourigan, C.S. (2018) Pembrolizumab and decitabine for refractory or relapsed acute myeloid leukemia. *Blood*. Vol. 132: 1437.

Oh, Y.S., Robinson, V., Stanley, D.V., Tolunary, E., **Kim, D.**, Gails, Z.S. (2016) "The Good Old R01:" Challenging Downward Funding Success Trends at the National Heart, Lung, and Blood Institute. *Circulation Research*. 118, 1475-1479.

Geller, N.L., **Kim, D.**, Tian, X. (2016) Smart Technology in Lung Disease Clinical Trials. *Chest*, 149 (1) 22-26.

Detweiler, M.B., Self, J.A., Lane, S. Spencer, L., Lutgens, B., **Kim, D.**, Halling, M.H. Rudder, T. and Lehmann, L. (2015). The effectiveness of horticultural therapy on modulating cortisol levels and indices of substance craving, PTSD, depression, and quality of life in veterans attending a 28-day substance rehabilitation program: A pilot study. *Journal of Alternative Therapies in Health and Medicine*. Vol 21, Issue 4, 36-41

Kramer, C.M., Appelbaum, E., Desai, M.Y., Desvigne-Nickens, P., DiMarco, J.P., Friedrich, M.G., Geller, N., Heckler, S., Ho, C.Y., Jerosch-Herold, M., Ivey, E.A., Keleti, J., **Kim, D.**, Kolm, P., Kwong, R.Y., Maron, M.S., Schulz-Menger, J., Piechnik, S., Watkins, H., Weintraub, W.S., Wu, P., Neubauer, S. (2015). Hypertrophic Cardiomyopathy Registry (HCMR): The rationale and design of an international, observational study of hypertrophic cardiomyopathy. *American Heart Journal*. Vol 170, Issue 2, 223-230

Tae, H., **Kim, D.**, McCormick, J., Sattlage, R.E. and Garner, H. R. (2014). Genotyping of Microsatellite Loci using a Discretized Gaussian Mixture. *Bioinformatics*. Vol. 30, no. 5, 652-659.

Clements, N., Sarkar, S., Zhao, Z. and **Kim, D.** (2014). Applying Multiple Testing Procedures to Detect Changes in East African Vegetation. *The Annals of Applied Statistics*. Vol 8, no. 1. 268-308.

Li, H., Deng, X., **Kim, D.** and Smith, E. (2014). Modeling Maximum Daily Temperature Using a Varying Coefficient Regression Model. *Water Resources Research*. Vol 50, Issue 4, 3073-3087.

- Andresen, J., Moore, N., Lofgren, B., Pijanowski, B., and **Kim, D.** (2014). Projected Land Cover Change Effects on East African Rainfall Under Climate Change. *International Journal of Climatology*. Published online.
- Trumbo, B., Stallings, J., **Kim, D.**, Wiggins, B., Hudy, M., Smith, E.P., Nislow, K. H. and Dolloff, C.A. (2014). Ranking Site Vulnerability to Climate Change in Brook Trout Streams in the Eastern United States: An Exposure-Sensitivity Approach. *Transactions of the American Fisheries Society*, Volume 143, Issue 1, page 173-187.
- Kim, D.**, Cui Y. and Zhao, O. (2013). Asymptotic Test of Mixture Model and its Applications to QTL Interval Mapping. *Journal of Statistical Planning and Inference*, 143, 1320-1329.
- Yeaman, P.A., **Kim, D.**, Alexander, J.L. and Kim, K.Y. (2013). Relationship of Physical and Functional Independence and Perceived Quality of Life of Veteran patients with Alzheimer's Disease. *American Journal of Hospice and Palliative Medicine*. 30, 462-466.
- Williams, M. and **Kim, D.** (2013). A Test for Abrupt Change in Hazard Regression Models with Weibull Baselines. *Journal of Statistical Planning and Inference*, 143, 1566-1574.
- Kim, D.**, Thomas, V., Olson, J., Williams, M. and Clements, N. (2013). Statistical Trend and Change Point Analysis of Land Cover Change patterns in East Africa. *International Journal of Remote Sensing*, 34, 6636-6650.
- Williams, M., **Kim, D.** (2013). A Test for an Abrupt Change in Weibull Hazard Functions with Staggered Entry and Type I Censoring. *Communications in Statistics, Theory and Methods*, 42, 1922-1933.
- Williams, M. and **Kim, D.** (2011). Likelihood Ratio Tests for Continuous Monotone Hazards with Unknown Change Point *Statistics and Probability Letters*, 81, 1599-1603.
- Bergh, J.C., Zhang, A., Meyer, J.R. and **Kim, D.** (2011). Response of Grape Root Borer (Lepidoptera: Sesiidae) Neonates to Root Extracts from Vitaceae Species and Rootstocks. *Environmental Entomology*, 40 (4), 880-888.
- Sun, H., Keener, R., **Kim, D.** (2010). Hybrid Bootstrap for Mapping Quantitative Trait Loci. *Statistics and Probability Letters*, 80, 1253-1259.
- Duggins, J., Williams, M., **Kim, D.**, and Smith, E.P. (2010). Change Point Detection in SPI Transition Probabilities. *Journal of Hydrology*, 388, 456-463.

Moore, N., Torbick, N., Lofgren, B., Wang, J., **Kim, D.**, and Andresen, J. (2009). Adapting MODIS-derived LAI and Fractional Cover into the RAMS Model for East Africa. *International Journal of Climatology, Special Issue: Impacts of land use change on climate*, 30(13), 1954-1969.

Huebner, M., **Kim, D.**, Ewart, S., Karmaus, W., Sadeghnejad, A., Arshad, SH. (2008). Patterns of GATA3 and IL13 Gene Polymorphisms Associated with Childhood Rhinitis and Atopy in a Birth Cohort. *Journal of Allergy and Clinical Immunology*, 121(2), 408-414.

Ramadas, RA., Sadeghnejad, A., Karmaus, W., Arshad, SH., Matthews, S., Huebner, M., **Kim, D.**, Ewart, SL. (2007). IL-1R antagonist Gene and Prenatal Smoke Exposure Are Associated with Childhood Asthma. *European Respiratory Journal*, 3, 502-8.

Kim, D., Woodroffe, M. (2006). Non-linear Renewal Theory with Stationary and Slowly Changing Perturbations. *I.M.S. Lecture Notes and Monograph Series*, 50, 164-175.

Cui, Y., **Kim, D.**, Zhu, J. (2006). On the Generalized Poisson Regression Mixture Model for Mapping Quantitative Trait Loci with Count Data. *Genetics*, 174(4), 2159–2172.

Kim, D., Woodroffe, M., Wu, Y. (2004). Testing for a Change in the Hazard Rate with Staggered Entry. *Communications in Statistics, Theory and Methods*, 33(9), 2041-2058. Invited paper for the special issue in honor of Professor Z. Govindarajulu on his 70th birthday.

Kim, D., Woodroffe, M. (2003). Non-linear Renewal Theory with Stationary Perturbations. *Sequential Analysis*, 22(1,2), 55-74.

**Conference
Proceeding Paper**

Trumbo, B., Hudy, M., Smith, E., **Kim, D.**, Nislow, K., Dolloff, A. (2010). Sensitivity and Vulnerability of Brook Trout Populations to Climate Change. Pages 62-68 in R. F. Carline and C. LoSapio, editors. *Wild Trout X: Conserving Wild Trout*. Wild Trout Symposium, West Yellowstone, Montana.

**Selected
Presentations (*
denotes presenter)**

- February 2023 **Kim, D.** Understanding sequential inference in a changing world, invited, Department of Statistics, Truman University.
- October 2022 **Kim, D.** Personal Perspectives from an NIH Statistician, Plenary session, WSDS 2022
- August 2022 **Kim, D.,** Han, S. A Sequential Test of Treatment Effects Under Staggered Entry in a Multi-Center Clinical Trial, invited session, JSM 2022.
- August 2022 **Kim, D.,** Han, S. Continuous Event Rate Monitoring in Clinical Trials: A Fully Sequential Perspective, TG session, UKC 2022.
- May 2021 **Kim, D.,** Han, S. A New Sequential Monitoring Method for Event Rate in a Clinical Trial, invited. Department of Biostatistics and Bioinformatics, George Washington University.
- April 2021 **Kim, D.,** Clinical Trials: A Mathematical Statistician's View, invited. Department of Mathematics, Syracuse University
- Kim, D.,** Han, S. Continuous Monitoring in a Clinical Trial: A Fully Sequential Approach, invited. Department of Biostatistics and Data Science, University of Kansas Medical Center.
- January 2021 **Kim, D.,** Han, S. Continuous Monitoring in a Clinical Trial: A Fully Sequential Approach, invited. Statistics Colloquium, Department of Statistics, U of Connecticut.
- October 2020 **Kim, D.,** Han, S. New Sequential Monitoring Method for Event Rate in a clinical trial, IBC 2020, Virtual Conference
- July 2020 **Kim, D.*,** Han, S. Sequential Interval Estimation of Patient Accrual Rate in Clinical Trials, ENAR 2020. Virtual Conference
- March 2020 **Cho, E*.,** Kim, D. The Effect of Crossover Rates on Statistical Power in Pragmatic Trials, Summer Poster Day, NIH, Bethesda, MD

- August 2019 **Kim, D***. Automatized Statistical Monitoring of Staggered Entry Data, KWSE-KWiSE Joint Forum on BT Convergence. UKC 2019, Chicago, IL.
- August 2019 **Kim, D***, Han, S. A New Sequential Monitoring Method for Event Rate in a Clinical Trial, The 7th International Workshop in Sequential Methodologies, Binghamton, NY.
- June 2019 **Kim, D***, Han, S. Sequential Event Rate Monitoring in Clinical Trials, April 2019. Seoul National University, Seoul, South Korea.
- April 2019 **Kim, D***, Han, S. Sequential Event Rate Monitoring in Clinical Trials, ENAR 2019, Philadelphia, PA.
- March 2019 **Kim, D.** Inference for Change Point in Time-to Event Data, invited. Survival, Longitudinal And Multivariate (SLAM) Seminar, Department of Biostatistics, Johns Hopkins University, Baltimore, MD
- September 2018 **Kim, D***, Han, S. Continuous monitoring and patient accrual in multi-center clinical trials, US-Korea Conference, 2017. Crystal City, VA.
- August 2017 **Kim, D***, Han, S. Sequential Patient Recruitment Monitoring, JSM 2017, Baltimore, MD.
- July 2017 **Kim, D***, Han, S. Sequential Patient Recruitment Monitoring, Conference on Lifetime Data Science, Storrs, CT.
- May 2017 **Han, S***, Kaufmann, P., Kim, D., Youngblood, M. Interaction of Measurement Burden and Disease in the ENRICH Clinical Trial, Poster presentation, Conference on Statistical Practice 2017, Jacksonville, FL
- February 2017 **Kim, D***, Liu, J., Han, S. A New Method to Assess Measurement Agreement in Machine Readings, Poster presentation, Conference on Statistical Practice 2017, Jacksonville, FL
- February 2017 **Kim, D.*** Sequential Patient Recruitment Monitoring, Case Study Series, NHLBI, Bethesda, MD
- January 2017 **Kim, D.*** Resources at NIH and Career in the 21st Century, Invited. Korean Student Association mentoring program, U of Maryland, College Park, MD

- September 2016 **Kim, D*., Han, S.** Sequential Patient Recruitment Monitoring. NHLBI Workshop, "Recent Advances and Challenges in Statistical Methods", NIH, Bethesda, MD.
- September 2016 **Kim, D.*** Basics of R for Data Analysis and Visualization, DCVS summer intern seminar, NHLBI/NIH, Bethesda, MD
- July 2016 **Kim, D.*** Use of Sequential Tests for Patient Recruitment Monitoring. Office of Biostatistics Research, NHLBI/NIH, Bethesda, MD.
- May 2016 **Kim, D.*** An asymptotic test of mixture model and its application to QTL interval mapping. Office of Biostatistics Research, NHLBI/NIH, Bethesda, MD.
- April 2016 **Kim, D. *** Test of a Change Point in the Hazard Function with Staggered Entry Data. Invited. Department of Mathematics and Statistics, U of Maryland, Baltimore County, Baltimore, MD
- February 2016 **Kim, D. *** Statistical Analysis of Hazard Rate Change in Time-to-Event Data. Invited. Department of Biostatistics, Virginia Commonwealth University, Richmond, VA.
- October 2015 **Kim, D. *** A Fully Sequential Test for Treatment Effects Using Censored Data in Multi-center Clinical Trials. 2015 Joint Statistical Meetings, Seattle, WA.
- August 2015 Lauer, M. S., **Kim, D.*** Funding, Time, and Efficiency of Cardiovascular Scientists Funded by the NHLBI Over 30 Years. Portfolio Analysis Symposium, Natcher Conference Center
- July 2015 **Kim, D.*** A Test for Abrupt Change in Hazard Regression Models with Weibull Baselines. 9th International Extreme Value Analysis conference, Ann Arbor, MI.
- June 2015 **Kim, D. *** A Fully Sequential Test for Treatment Effects Using Censored Data in Multi-center Clinical Trials. Society for clinical trials annual meeting, Arlington, VA.
- May 2015 **Kim, D.*** Clinical research using Electronic Health Records and Sequential Probability Ratio Test Method: New opportunities and new methods for multi-center clinical trials, Clinical Research Coordinating Center, St. Mary Hospital, Seoul, South Korea. Invited.

- June 2014 **Kim, D.*** Statistical Analysis of Change Point in Time to Event Data. Korea Cancer Center, Ilsan city, South Korea. Invited.
- June 2014 Malkin, A*. **and Kim, D.** The Effect of WIC Breastfeeding Policy on Childhood Obesity. NHLBI Summer intern seminar, Bethesda, MD.
- July 2014 **Kim, D.*** Change point inference in time-to-event data under staggered entry. NIH/NHLBI. Bethesda, MD. Invited.
- May 2013 **Kim, D.***, Thomas, V., Olsen, J., William, M. and Clements, N. Statistical Trend and Change point Analysis of Land Cover Change Patterns in East Africa. Virginia Tech GIS and Remote Sensing 2013 Research Symposium. Blacksburg, VA, Invited.
- April 2013 Gates, M.L*, **Kim, D.** and O'Dell, M. Development of a Corrections Based Health Model to Predict and Eliminate Obesity. 6th Academic and Health Policy Conference on Correctional Health. Chicago, IL.
- March 2013 Olsen, J*, Moore, N., Majule, A., Yanda, P., Alagarswamy, G., Andersen, J., Campbell, D., Conway, D., Doherty, R., Ge, J., Hession, S., Karanja, S., **Kim, D.**, Magezi, S., Maitima, J., Misana, S., Mugatha, s., Mugisha, S., Mwansasu, S., Thomton, P. and Wangui, E. Addressing the Impact of Climate Change on Agricultural Systems in East Africa. Presented at Tanzania Climate/Agriculture Policy Workshop, Dar es Salaam, Tanzania.
- March, 2013 **Kim, D.*** Linear and Logistic Regression. PGY-2 Psychiatry Residency Program Didactic Lecture, Virginia Tech Carilion School of Medicine (VTCSOM) and Veterans Affairs Medical Center, Salem, VA, Invited
- January 2013 **Kim, D.*** Application of Change Point in Time to Event Data. Society for Industrial and Applied Mathematics (SIAM), SIAM graduate student seminar: Statistical and Biomolecular Modeling, Blacksburg, VA. Invited.
- December 2012 Gates, M.L*. **and Kim, D.** Developing a health risk model to predict obesity and related health conditions in prisons. Poster presented at 2012 Science of Eliminating Health Disparities Summit. National Harbor, MD.
- October 2012 **Kim, D.*** Statistical Analysis of Change point in Time-to Event Data. Virginia Tech Carilion School of Medicine (VTCSOM), Grand Rounds, Roanoke, VA, Invited.
- June 2012 **Kim, D.*** Aspects of Modern Statistics: Visualization, Test, and Change Point. Virginia Tech Carilion School of Medicine (VTCSOM) Psychiatric Residency Program, Roanoke, VA, Invited.

- January 2012 **Kim, D.*** Introduction to Statistical Analysis Focused on Medical Literature. Virginia Tech Carilion School of Medicine (VTCSOM) Psychiatric Residency Program, Roanoke, VA, Invited.
- October 2011 **Kim, D.***, Shen, Y., and Mun, K. A Study of ACO Quality Performance Measures as a Function of Demographic Variables. The 2nd AMA-IEEE Medical Technology Conference, Boston, MA. Poster Presentation.
- August 2011 Williams, M. and **Kim, D.*** Likelihood Ratio Tests for Continuous Monotone Hazards with an Unknown Change Point. Joint Statistical Meetings in Miami, Florida.
- Williams, M*. and **Kim, D.** Likelihood Ratio Tests for a Change Point in Weibull Hazard Models with Covariate Information. Joint Statistical Meetings in Miami, Florida.
- June 2011 **Kim, D.*** Changing Climate Patterns in East Africa: A New Way to Look at Drought. Meet the Scientists, Arlington, VA. Poster Presentation.
- November 2010 Hession, S. L.*, Alagarswamy, G., Andresen, J., Campbell, D., Glew, R., Goble, N., Han, C., Herrero, M., Karanja, S., **Kim, D.**, Maitima, J., Misana, S., Moore, N., Mugatha, S., Mong'ong'o, C., Mwansasu, S., Naizghi, J. A., Ogutu, J., Olson, J., Qi, J., Qin, C., Said, M., Smucker, T., Thornton, P., Wangui, E., Williams, M., and Yanda, P. (2010). An Overview of Climate Change Research at MSU and Prediction in Data-Scarce Environments: Introducing New and Improved Spatially Explicit Methods. Society of Toxicology and Chemistry 31st Annual North American Meeting. Portland, OR.
- October 2010 **Kim, D.**, Guo, F., Williams, M.*, Hession, S. Connecting Changes in Vegetation to Geography, Climate, and Land Use in East Africa. Global Land Project (GLP) Open Science Meeting 2010, Tempe, Arizona.
- July 2010 Trumbo, B.*, Hudy, M., Smith, E., **Kim, D.**, Nislow, K., Dolloff, A. Sensitivity and Vulnerability of Brook Trout Populations to Climate Change. Wild Trout X: Conserving Wild Trout 2010 West Yellowstone, Montana.
- May 2010 **Kim, D.**, Brooks, E.*, Fang, Z., and Han, C. Modeling Drought Frequency and Duration with Renewal Processes. Annual Meeting of Virginia Academy of Science in James Madison University, Harrisonburg, VA.
- April 2010 Moore, N., **Kim, D.**, Andresen, J.*, and Hession, S. Historical and Projected Changes in East African Meteorological Drought. Annual Meeting of the Association of American Geographers, Washington D.C.

- Williams, M.*, Goble, N., **Kim, D.** A new strategy for modeling time series data with structural change. Annual Meeting of the Association of American Geographers, Washington D.C.
- Han, C.* and **Kim, D.** A Change Point Analysis of Drought Frequency in East Africa. Annual Meeting of the Association of American Geographers, Washington D.C.
- Brooks, E.*, **Kim, D.**, Thomas, V. A Cluster-Based Framework for Land Cover Classification and Change Detection. Poster session at VT-GIS Symposium, Virginia Tech.
- March 2010 **Kim, D.*** Non-linear Renewal Theory with Stationary and Slowly Changing Perturbations. Invited talk for the seminar series, Grado Department of Industrial and Systems Engineering, Virginia Tech.
- August 2009 **Kim, D.*** An Asymptotic Test for a Change Point in Densities of a General Class. Joint Statistical Meetings, Washington D.C.
- Williams, M.* and **Kim, D.** Testing for a Change-Point for a Rayleigh Distribution with Staggered-entry and Right Censoring. Joint Statistical Meetings, Washington D.C.
- Kim, D.**, Goble, N.*, Olson, J., and Williams, M. Statistical Analysis of Trend and Change Point in Vegetation Phenology. Joint Statistical Meetings, Washington D.C.
- Duggins, J.*, **Kim, D.** and Smith, E. Ecological Threshold Detection. Joint Statistical Meetings in Washington D.C.
- November 2008 **Kim, D.** and Williams, M.* Statistical Analysis of Climate Changes in East Africa. Sigma Xi Annual Meeting and Student Conference, Washington, D.C.
- Kim, D.** and Han, C.* Waiting for Drought: A Renewal Process Approach to Modeling Inter-arrival Times between Drought Onsets. Sigma Xi Annual Meeting and Student Conference, Washington, D.C.
- October 2008 **Kim, D.*** and Cui, Y. Asymptotic Test of Mixture Model and Its Application to QTL Mapping presented at Colloquium, Department of Statistics, Virginia Tech, Blacksburg, Virginia, Invited.
- March 2008 **Kim, D.*** and Cui, Y. Asymptotic Test of Mixture Model and Its Application to QTL Mapping. Eastern North American Region (ENAR) Spring Meeting, International Biometric Society, Arlington, Virginia.
- December 2007 Bergh, J.C.*, Meyer, J.R., Zhang, A., and **Kim, D.** Behavioral Response of Grape Root Borer (Lepidoptera: Sesiidae) Larvae to Grape Root Extract. Section Cd: Behavior and Ecology, Entomological Society of America Annual Meeting, December 9-12, 2007. San Diego, CA.

- March 2007 **Kim, D.*** and Wu, Y. Interval Estimation of Change Point in Hazard Rate with Staggered Entry. Colloquium, Department of Statistics, Virginia Tech, Blacksburg, Virginia.
- February 2006 **Kim, D.*** and Woodroffe, M. A Nonlinear Renewal Theorem and Its Application in Sequential Analysis presented at Colloquium, Department of Statistics and Probability, Michigan State University, East Lansing, Michigan, Invited.
- September 2005 **Kim, D.*** and Woodroffe, M. A Non-linear Renewal Theorem with Stationary and Slowly Changing Perturbations presented at Conference on Nonparametric Inference and Probability with Applications to Science, Honoring Michael Woodroffe's Career and 65th Birthday, Department of Statistics, University of Michigan, Ann Arbor, Michigan, Invited.
- August 2005 **Kim, D.*** and Woodroffe, M. Nonlinear Renewal Theory with Stationary and Slowly Changing Perturbations. Joint Statistical Meetings, Minneapolis, Minnesota.
- April 2005 **Kim, D.*** and Wu, Y. Interval Estimation for a Change in the Hazard Rate with Staggered entry. The first UTD symposium on Statistics and Biostatistics, University of Texas at Dallas, Texas.
- March 2005 **Kim, D.*** and Woodroffe, M. A Sequential Test for Treatment Effects Under Staggered Entry in a Multicenter Clinical Trial. ENAR Spring Meeting, International Biometric Society, Austin, Texas.
- September 2004 **Kim, D.*** Change Point Problems. Applied Econometrics Workshop, Department of Economics, Illinois State University, Normal, Illinois, Invited.
- June 2004 **Kim, D.***, Woodroffe, M., and Wu, Y. Testing and Interval Estimation of Hazard Rate Change with Staggered Entry, The 4th International Conference on Mathematical Methods in Reliability, Santa Fe, New Mexico.
- May 2004 **Kim, D.*** and Wu, Y. Interval Estimation of Hazard Rate Change with Staggered Entry. The 11th Spring Research Conference (SRC) on Statistics in Industry and Technology at National Institute of Standards and Technology (NIST), Gaithersburg, Maryland.
- November 2003 **Kim, D.*** Statistical Computing Using R, Workshop, American Statistical Association Central Illinois Chapter Meeting, Normal, Illinois. Invited.
- Kim, D.***, Woodroffe, M., and Wu, Y. Testing for a Change in the Hazard Rate with Staggered Entry. Applied Econometrics Workshop,

Department of Economics, Illinois State University, Normal, Illinois.
Invited.

- June 2003 **Kim, D.***, Woodroffe, M., and Wu, Y. Testing for a Change in the Hazard Rate with Staggered Entry. The 10th SRC on Statistics in Industry and Technology, the University of Dayton, Ohio.
- Kim, D.*** R/Plus Introduction for Computing Consultants. Inter-University Consortium For Political and Social Research (ICPSR), Ann Arbor, Michigan. Invited.

Teaching

- Fall 2017-2019
Spring 2017
(Georgetown U)
NURA 769 Anesthesia Safety and Quality
NURA 782 Research Method
NURS 903 Research Methodology
- 2015-2016
(FAES, NIH)
STAT 400 Introduction to Statistical Computing Using R (Online via Youtube live streaming)
STAT 200 Introduction to Experimental Statistics I
STAT 200 Introduction to Experimental Statistics II
- 2007-2013
(Virginia Tech)
STAT 6114 Advanced Inference
STAT 5594 Topics in Biostatistics (Stochastic Processes)
STAT 5434 Applied Stochastic Processes
STAT 5414 Time Series Analysis
STAT 5034 Inference Fundamentals
- 2005-2007
(Michigan State University)
STT 461 Computations in Probability and Statistics
STT 351 Probability and Statistics for Engineering
STT 200 Statistical Methods
- 2003-2005 (Illinois State University)
MAT 455 Applied Stochastic Processes
MAT 356 Statistical Computing
MAT 351 Statistics and Data Analysis
MAT 250 Introduction to Probability and Statistics
- 1997-2002
(University of Michigan, Ann Arbor)
(Graduate Student Instructor)
Stat 470 Experimental Design
Stat 406 Statistical Computing
Stat 405 Probability and Statistics
Stat 403 Statistics and Data Analysis II
Stat 350/402 Statistics and Data Analysis
Stat 100 Statistical Reasoning
- Student Advising (Virginia Tech)**
Chair, doctoral committee for Matthew Williams (2008-2011).
Chair, doctoral committee for Yu-Ming Shen (2011-2013).

Member, doctoral committee (8 students).
Chair, Masters Committee (4 students).
Member, Masters Committee (16 students).
Research co-mentor (2012-2013), Virginia Tech Carilion School of
Medicine (VTCSOM).

**Professional
Membership**

CAUCUS for Women in Statistics (CWS).
Korean International Statistical Society (KISS).
Sigma Xi.