

SUMMER S. HAN

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Citizenship South Korea
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RESEARCH INTERESTS

My research focuses on understanding the genetic and environmental etiology of complex disease and developing and evaluating efficient screening strategies based on etiological understanding. The areas of my research interests include statistical genetics, molecular epidemiology, cancer screening modeling, health policy analysis, and risk prediction modeling. I have developed various statistical methods to analyze high-dimensional data to identify genetic and environmental risk factors and their interactions for complex disease. These approaches include employing a unified framework that integrates the joint effects of genetic and environmental risk factors.

ACADMIC TRAINING

Ph.D. Statistics, Yale University, 2009

Dissertation: Likelihood ratio tests in variance components models for identifying genetic risk factors for complex disorders using multiple quantitative traits

Advisor: Joseph T. Chang

M.A. in Statistics, Yale University, 2004

M.S. in Economics, Yonsei University, Seoul, Korea, 2003

B.A. in Journalism, Ewha University, Seoul, Korea, 2000

ADVISORY BOARDS AND PROFESSIONAL ORGANIZATIONS

2018 - Present JSM Program Chair elect, Statistical Consulting Section, American Statistical Association
2018 - Present Member, International Association for the Study of Lung Cancer (IASLC)
2017 - Present Member, Korean International Statistics Society
2015 - Present Member, International Lung and Cancer Consortium
2008 - Present Member, American Statistical Association
2008 - Present Member, American Society of Human Genetics
2008 - 2011 Member, International Genetic Epidemiology Society

EMPLOYMENT

Dec 2015 - Present Assistant Professor, Department of Neurosurgery and Medicine, Stanford University
Sep 2012 - Nov 2015 Research Associate, Department of Radiology, Stanford University
Aug 2009 - Aug 2012 Research Fellow, Biostatistics Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, National Institutes of Health

AWARDS

Aug 2018 National Cancer Institute MERIT Award for Early Stage Investigator (R37)
Jan 2017 Stanford Spectrum Pilot Award, Stanford School of Medicine

- “Population-based Health Information Exchange for Cancer Prevention: Surveillance for cancer-related infections”
- Aug 2012 Research Fellowship, Division of Cancer Epidemiology and Genetics, National Cancer Institute
- Aug 2008 Paper Competition Award, Title: “A note on the asymptotic null distribution of likelihood-ratio tests for multivariate genetic linkage in variance components models”
Joint statistical Meetings of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society
- June 2008 Yale Graduate Student Assembly Conference Travel Fund awards
- 2008 – 2009 Yale Graduate School Dissertation Fellowship
- 2006 – 2008 Yale Graduate School Teaching Fellowship
- 2004 – 2006 Yale Graduate School Scholarship

UNIVERSITY AND DEPARTMENTAL COMMITTEES

- 2018 - Member, Search Committee for Quantitative Sciences Unit & Department of Pathology Faculty, Stanford University
- 2017 - Member, Scientific Review Committee, Stanford Cancer Institute, Stanford University

EDITORIAL ACTIVITIES

- Editorial Board Journal of the National Cancer Institute (since 2012)
Journal of the National Cancer Institute Cancer Spectrum (since 2017)
- Journal Referees American Journal of Epidemiology
Cancer Epidemiology, Biomarkers & Prevention
Epidemiology
Human Heredity
Molecular Oncology

INTERNATIONAL CONFERENCES

1. Metabolomic profiling for second primary lung cancer among lung cancer survivors. World Conference on Lung Cancer (WCLC), Toronto, Canada, September 2018 (Scheduled)
2. Risk prediction model for second primary lung cancer. International Lung Cancer Consortium meeting (ILCCO), Toronto, Canada, September 2018 (Scheduled)
3. A Likelihood Ratio Test for Gene (G)-Environment (E) Interaction Based on the Trend Effect of a Genotype Under an Additive Risk Model Using the G-E Independence Assumption. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Vancouver, BC, Canada, August 2018
4. Modeling lung cancer screening and second primary lung cancer. International Conference on Health Policy Statistics (ICHPS), Charleston SC, USA, January 2018
5. Second primary lung cancer and risk prediction models. International Lung Cancer Consortium meeting (ILCCO), New York, NY, USA, September 2017

6. Risk-stratification for second primary lung cancer. The International Association for the Study of Lung Cancer (IASLC) Chicago Multidisciplinary Symposium in Thoracic Oncology, Chicago, IL, USA, September 2016
7. Simulating risk factors for lung cancer to optimize lung-screening guidelines. International Biometric Society (IBS), Victoria, Canada, August 2016
8. A common variant on 2q31.3 reduces lung cancer risk among light smokers: Transdisciplinary Research in Lung Cancer Consortium, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) 50th Anniversary Conference, Lyon, France, June 2016
9. The impact of overdiagnosis on selection of lung screening strategies. International Cancer Screening Network Conference (ICSN), Rotterdam, Netherlands, June 2015
10. A unified framework for testing genetic associations integrating environmental exposures. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Montreal, Québec, Canada, August 2013
11. A class of general score tests for detecting genetic associations integrating environmental exposures. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Seattle, WA, USA, August 2012
12. Likelihood ratio test for detecting gene (G) by environment (E) interactions under additive risk models, exploiting G-E independence for case-control data. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Miami Beach, FL, USA, August 2011
13. Testing for gene-environment and gene-gene interactions under monotonicity constraints. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Vancouver, BC, Canada, August 2010
14. Reconsidering the asymptotic null distribution of likelihood-ratio tests for multivariate genetic linkage in variance components models. International Genetic Epidemiology Society, St. Louis, MO, USA, September 2008
15. Reconsidering the asymptotic null distribution of likelihood-ratio tests for multivariate genetic linkage in variance components models. Joint Statistical Meetings (JSM) of the American Statistical Association, Institute of Mathematical Statistics, and International Biometric Society, Denver, CO, USA, August 2008

OTHER UNIVERSITY/INSTITUTION BASED INVITED TALKS (*indicates outside of appointed institution)

1. Novel statistical methods for identifying interactions between genes and environmental exposures for complex diseases. WORKSHOP IN BIOSTATISTICS (BIODS/STATS 260), Department of Biomedical Data Science, Stanford, April 2018
2. *Racial disparity and lung cancer screening. Intervention and Surveillance Modeling Network (CISNET) consortium meeting, Ann Arbor, MI, April 2018
3. Risk-stratification for Second Primary Lung Cancer. Stanford Cancer Institute: Population Sciences Quarterly Seminars, February 2018

4. Novel statistical methods for identifying interactions between genes and environmental exposures for complex diseases. Quantitative Sciences Unit's Research Methods Seminar, Stanford, January 2018
5. *Algorithm for simulating risk factors for lung cancer in the U.S. population. Cancer Intervention and Surveillance Modeling Network (CISNET) consortium meeting, NIH, Bethesda, MD, November 2017
6. Risk-Stratification for Second Primary Lung Cancer. Stanford Precision Health and Integrated Diagnostics (PHIND) Symposium, Stanford, May 2017
7. *Simulating risk factors for lung cancer to optimize lung-screening guidelines. Lifetime Data Science Conference (LIDA), Connecticut, May 2017
8. Statistical methods for gene-gene and gene-environment interaction for complex disease. Lecture at Psychiatry Department: Methodology of Research in Behavioral Sciences, Stanford, April 2017
9. *Statistical methods for genetic associations, gene-environment interactions, and population-level cancer screening. Department of Epidemiology & Biostatistics, UCSF, San Francisco, January 2017
10. Developing statistical methods to identify interactions between genes and the environment for complex disease. Stanford Biomedical Informatics Research Seminar, Stanford, March, 2016
11. *Risk factor simulator for lung cancer in the general U.S. population. Cancer Intervention and Surveillance Modeling Network (CISNET) consortium meeting, NIH, Bethesda, MD, November 2016
12. *A common variant on 2q31.3 reduces lung cancer risk among light smokers: Transdisciplinary Research in Lung Cancer Consortium. American Society of Human Genetics, Baltimore, MD, October 2015
13. Developing statistical methods to identify interactions between genes and the environment for complex disease. Stanford Biomedical Informatics Research Seminar, Stanford, March 2016
14. The impact of overdiagnosis on selection of lung screening strategies using low-dose computed tomography. Information Sciences in Imaging at Stanford (ISIS) Seminar, Stanford University, CA, December 2014
15. Modeling cancer screening for predicting population-level outcomes. Canary Center at Stanford for Cancer Early Detection Meeting, Stanford University, November 2014
16. *Quantification of overdiagnosis in lung cancer using computed tomography screening in the U.S. population: Model-based approach Cancer Intervention and Surveillance Modeling Network (CISNET) consortium meeting, NIH, Bethesda, MD, *December 2013*
17. *Lectures on statistical methods for analyzing genetic data in Genomic Workshop. Cancer Prevention Institute of California, Fremont, CA, August 2012
18. *Statistical methods for analyzing genetic data: Gene-Environment interactions, imputations and multiple comparisons. Cancer Prevention Institute of California, Fremont, CA, March 2012
19. Testing for interactions between genes and the environment using monotonicity constraints Stanford University School of Medicine, Stanford, February 2012

20. *Understanding the interplay between genes and environment on human disease risk.
Department of Medicine, University of California, San Francisco, December 2011
21. *Identifying genes for complex traits in psychiatric and cognitive disorders using family data
Department of Biostatistics, University of Michigan, Ann Arbor, December 2008
22. *Identifying genes for complex traits in psychiatric and cognitive disorders using family data
Division of Cancer Epidemiology & Genetics, Biostatistics Branch, NCI, October 2008

BIBLIOGRAPHY (Total 42; published 39; in press 3; submitted 0)

1. **Han, S.S.**, Kelly, S.P., Yang, B., Li, Y., Nguyen, M.H., So, S.K., Rosenberg, P.S., and Hsing, A.W., 2018. Changing landscape of liver cancer in California: a glimpse into the future of liver cancer in the United States. *Journal of the National Cancer Institute (In Press)*.
2. Yang, B., Liu, J.B., So, S.K., **Han, S.S.**, Wang, S.S., Hertz, A., Shariff-Marco, S., Lin Gomez, S., Rosenberg, P.S., Nguyen, M.H. and Hsing, A.W., 2018. Disparities in Hepatocellular Carcinoma Incidence by Race/Ethnicity and Geographic Area in California: Implications for Prevention. *Cancer (In Press)*.
3. Azad, T., Vail, D., Bentley, J., **Han, S.**, Suarez, P., Varshneya, K., Mittal, V., Veeravagu, A., Desai, M., Bhattacharya, J. and Ratliff, J., 2018. Initial Provider Specialty is Associated with Long-term Opiate Use in Patients with Newly Diagnosed Low Back and Lower Extremity Pain. *Spine (In Press)*.
4. **Han, S.S.** and Chatterjee, N., 2018. Review of Statistical Methods for Gene-Environment Interaction Analysis. *Current Epidemiology Reports*, 5(1), pp.39-45.
5. **Han, S.S.**, Plevritis, S.K. and Wakelee, H.A., 2018. Caution Needed for Analyzing the Risks of Second Cancers. *Journal of Thoracic Oncology*, 13(9), pp.e172-e173.
6. Dougan, M.M., Li, Y., Chu, L.W., Haile, R.W., Whittemore, A.S., **Han, S.S.**, Moore, S.C., Sampson, J.N., Andrulis, I.L., John, E.M. and Hsing, A.W., 2018. Metabolomic profiles in breast cancer: a pilot case-control study in the breast cancer family registry. *BMC cancer*, 18(1), p.532.
7. Lamsam, L., Sussman, E.S., Iyer, A.K., Bhambhvani, H.P., **Han, S.S.**, Skirboll, S. and Ratliff, J.K., 2018. Intracranial Hemorrhage in Deep Vein Thrombosis/Pulmonary Embolus Patients Without Atrial Fibrillation: Direct Oral Anticoagulants Versus Warfarin. *Stroke*, 49(8), pp.1866-1871.
8. Azad, T.D., Vail, D., O'Connell, C., **Han, S.S.**, Veeravagu, A. and Ratliff, J.K., 2018. Geographic variation in the surgical management of lumbar spondylolisthesis: characterizing practice patterns and outcomes. *The Spine Journal*.
9. Chu, L.W., Till, C., Yang, B., Tangen, C.M., Goodman, P.J., Yu, K., Zhu, Y., **Han, S.**, Hoque, A.M., Ambrosone, C. and Thompson, I., 2018. Circadian genes and risk of prostate cancer in the prostate cancer prevention trial. *Molecular carcinogenesis*, 57(3), pp.462-466.
10. Pollom, E.L., Fujimoto, D.K., **Han, S.S.**, Harris, J.P., Tharin, S.A. and Soltys, S.G., 2018. Newly diagnosed glioblastoma: adverse socioeconomic factors correlate with delay in radiotherapy initiation and worse overall survival. *Journal of radiation research*, 59(suppl_1), pp.i11-i18.

11. **Han, S.S.**, ten Haaf, K., Hazelton, W.D., Jeon, J., Meza, R., Kong, C.Y., Feuer, E.J., de Koning, H.J. and Plevritis, S.K., 2018. Re: Think before you leap. *International journal of cancer*, 142(7), pp.1507-1509.
12. Vail, D., Azad, T.D., O'Connell, C., **Han, S.S.**, Veeravagu, A. and Ratliff, J.K., 2018. Postoperative Opioid Use, Complications, and Costs in Surgical Management of Lumbar Spondylolisthesis. *Spine*, 43(15), pp.1080-1088.
13. Afghahi, A., Purington, N., **Han, S.S.**, Desai, M., Pierson, E., Mathur, M.B., Seto, T., Thompson, C.A., Rigdon, J., Telli, M.L. and Badve, S.S., 2018. Higher Absolute Lymphocyte Counts Predict Lower Mortality from Early-Stage Triple-Negative Breast Cancer. *Clinical Cancer Research*, pp.clincanres-1323.
14. Murovic, J., Ding, V., **Han, S.S.**, Adler, J.R. and Chang, S.D., 2017. Impact of CyberKnife Radiosurgery on Median Overall Survival of Various Parameters in Patients with 1-12 Brain Metastases. *Cureus*, 9(12).
15. **Han, S.S.**, Rivera, G.A., Tammemägi, M.C., Plevritis, S.K., Gomez, S.L., Cheng, I. and Wakelee, H.A., 2017. Risk Stratification for Second Primary Lung Cancer. *Journal of clinical oncology*, 35(25), pp.2893-2899.
16. **Han, S.S.**, Erdogan, S.A., Toumazis, I., Leung, A. and Plevritis, S.K., 2017. Evaluating the impact of varied compliance to lung cancer screening recommendations using a microsimulation model. *Cancer Causes & Control*, 28(9), pp.947-958.
17. **Han, S.S.**, ten Haaf, K., Hazelton, W.D., Munshi, V.N., Jeon, J., Erdogan, S.A., Johanson, C., McMahon, P.M., Meza, R., Kong, C.Y. and Feuer, E.J., 2017. The impact of overdiagnosis on the selection of efficient lung cancer screening strategies. *International journal of cancer*, 140(11), pp.2436-2443.
18. Murovic, J., Ding, V., **Han, S.S.**, Adler, J.R. and Chang, S.D., 2017. Impact of CyberKnife Radiosurgery on Overall Survival and Various Parameters of Patients with 1-3 versus ≥ 4 Brain Metastases. *Cureus*, 9(10).
19. Christopher, L., Napolioni, V., Khan, R.R., **Han, S.S.**, Greicius, M.D. and Alzheimer's Disease Neuroimaging Initiative, 2017. A variant in ppp4r3a protects against alzheimer-related metabolic decline. *Annals of neurology*, 82(6), pp.900-911.
20. ten Haaf, K., Jeon, J., Tammemägi, M.C., **Han, S.S.**, Kong, C.Y., Plevritis, S.K., Feuer, E.J., de Koning, H.J., Steyerberg, E.W. and Meza, R., 2017. Risk prediction models for selection of lung cancer screening candidates: A retrospective validation study. *PLoS medicine*, 14(4), p.e1002277.
21. **Han, S. S.**, P. S. Rosenberg, A. Ghosh, M.T. Landi, N.E. Caporaso, and N. Chatterjee, 2015. An Exposure-Weighted Score Test for Genetic Associations Integrating Environmental Risk Factors. *Biometrics*, DOI: 10.1111/biom.12328.
22. **Han, S. S.***, J. D. Figueroa*, M. Garcia-Closas, D. Baris, E. J. Jacobs, M. Kogevinas, M. Schwenn, N. Malats, A. Johnson & M. P. Purdue, 2014. Genome-wide interaction study of smoking and bladder cancer risk. *Carcinogenesis*, bgu064. *Equal contribution.
23. de Koning, H.J., Meza, R., Plevritis, S.K., Ten Haaf, K., Munshi, V.N., Jeon, J., Erdogan, S.A., Kong, C.Y., **Han, S.S.**, van Rosmalen, J. and Choi, S.E., 2014. Benefits and harms of computed tomography lung cancer screening strategies: a comparative modeling study for the US Preventive Services Task Force. *Annals of internal medicine*, 160(5), pp.311-320.

24. Meza, R., ten Haaf, K., Kong, C.Y., Erdogan, A., Black, W.C., Tammemagi, M.C., Choi, S.E., Jeon, J., **Han, S.S.**, Munshi, V. and van Rosmalen, J., 2014. Comparative analysis of 5 lung cancer natural history and screening models that reproduce outcomes of the NLST and PLCO trials. *Cancer*, 120(11), pp.1713-1724.
25. McMahon, P. M., R. Meza, S. K. Plevritis, W. Black, M. Tammemagi, A. Erdogan, K. T. Haaf, W. Hazelton, T. Holford, J. Jeon, L. Clarke, C. Y. Kong, S. E. Choi, V. Munshi, **S. S. Han**, P. Pinsky, S. Moolgavkar, H. d. Koning & E. Feuer, 2014. Comparing benefits from many possible computed tomography lung cancer screening programs: extrapolating from the National Lung Screening Trial using comparative modeling. *PloS one*, 9(6), p.e99978.
26. Tan, D., S. J. Horning, R. T. Hoppe, R. Levy, S. A. Rosenberg, B. M. Sigal, R. A. Warnke, Y. Natkunam, **S. S. Han**, A. Yuen, S. K. Plevritis & R. H. Advani, 2013. Improvements in Observed and Relative Survival in Follicular Grade 1-2 Lymphoma Over Four Decades: The Stanford University Experience. *Blood*.
27. Gu F, Pfeiffer RM, Bhattacharjee S, **Han SS**, Taylor PR, Berndt S, Yang H, Sigurdson AJ, Toro J, Mirabello L, Greene MH. Common genetic variants in the 9p21 region and their associations with multiple tumours. *British journal of cancer*. 2013 Apr;108(6):1378.
28. Garcia-Closas, M., N. Rothman, J. D. Figueroa, L. Prokunina-Olsson, **S. S. Han**, D. Baris, E. J. Jacobs, N. Malats, I. De Vivo, D. Albanes, M. P. Purdue, S. Sharma, Y.-P. Fu, M. Kogevinas, Z. Wang, W. Tang, A. Tardón, C. Serra, A. Carrato, R. García-Closas, J. Lloreta, A. Johnson, M. Schwenn, M. R. Karagas, A. Schned, G. A. Jr, R. G. III, A. Black, S. M. Gapstur, M. Thun, W. R. Diver, S. J. Weinstein, J. Virtamo, D. J. Hunter, N. Caporaso, M. T. Landi, A. Hutchinson, L. Burdett, K. B. Jacobs, M. Yeager, J. F. F. Jr, S. J. Chanock, D. T. Silverman & N. Chatterjee (2013) Common genetic polymorphisms modify the effect of smoking on absolute risk of bladder cancer. *Cancer research*, 73, 2211-2220.
29. Karami, S., G. Andreotti, S. Koutros, K. H. Barry, L. E. Moore, **S. S. Han**, J. A. Hoppin, D. P. Sandler, J. H. Lubin, L. Burdette, J. Yuenger, M. Yeager, L. B. Freeman, A. Blair & M. C. R. Alavanja (2013) Pesticide exposure and inherited variants in vitamin D pathway genes in relation to prostate cancer. *Cancer Epidemiology Biomarkers & Prevention*.
30. Baris, D., M. R. Karagas, S. Koutros, J. S. Colt, A. Johnson, M. Schwenn, A. H. Fischer, J. D. Figueroa, S. I. Berndt, **S.S. Han**, L. E. B. Freeman, J. H. Lubin, S. Cherala, K. P. Cantor, K. Jacobs, S. Chanock, N. Chatterjee, N. Rothman & D. T. Silverman (2013) Nonsteroidal anti-inflammatory drugs and other analgesic use and bladder cancer in northern New England. *International journal of cancer*, 132, 162-173.
31. **Han, S. S.**, P. S. Rosenberg & N. Chatterjee (2012) Testing for Gene–Environment and Gene–Gene Interactions Under Monotonicity Constraints. *Journal of the American Statistical Association*, 107, 1441-1452.
32. **Han, S. S.**, P. S. Rosenberg, M. Garcia-Closas, J. D. Figueroa, D. Silverman, S. J. Chanock, N. Rothman & N. Chatterjee (2012) Likelihood ratio test for detecting gene (G)-environment (E) interactions under an additive risk model exploiting GE independence for case-control data. *American journal of epidemiology*, 176, 1060-1067.
33. **Han, S. S.**, L. Y. Sue, S.I. Berndt, J. Selhub, L.A. Burdette, P.S. Rosenberg, R.G. Ziegler (2012) Association between genes in the one-carbon metabolism pathway and colorectal adenoma among persons with low folate intake. *Cancer Epidemiology, Biomarkers & Prevention*, 21(3):417. **The main figure of this article was highlighted on the Journal's cover page.**

34. **Han, S. S.**, M. Yeager, L. E. Moore, M. Wei, R. Pfeiffer, O. Toure, M. P. Purdue, M. Johansson, G. Scelo, C. C. Chung, V. Gaborieau, D. Zaridze, K. Schwartz, N. Szeszenia-Dabrowska, F. Davis, V. Bencko, J. S. Colt, V. Janout, V. Matveev, L. Foretova, D. Mates, M. Navratilova, P. Boffetta, C. D. Berg, R. L. Grubb III, V. L. Stevens, M. J. Thun, W. R. Diver, S. M. Gapstur, D. Albanes, S. J. Weinstein, J. Virtamo, L. Burdett, A. Brisuda, J. D. McKay, J. F. Fraumeni Jr, N. Chatterjee, P. S. Rosenberg, N. Rothman, P. Brennan, W. Chow, M. Tucker, S. J. Chanock, Jorge R. Toro (2012) The chromosome 2p21 region harbors a complex genetic architecture for association with risk for renal cell carcinoma. *Human Molecular Genetics*, 21 (5): 1190-1200.
35. Wacholder, S., **S. S. Han** & C. R. Weinberg (2011) Inference From a Multiplicative Model of Joint Genetic Effects for Ovarian Cancer Risk. *Journal of the National Cancer Institute*, 103, 82.
36. **Han S. S.***, C. P. Kratz*, P. S. Rosenberg, S. I. Berndt, L. Burdett, M. Yeager, L. A. Korde, P. L. Mai, R. Pfeiffer & M. H. Greene (2011) Variants in or near *KITLG*, *BAK1*, *DMRT1*, and *TERT-CLPTMIL* predispose to familial testicular germ cell tumour. *Journal of Medical Genetics*, 48, 473.
*Equal contribution.
37. Gibson, T. M., B. Brennan, **S. S. Han**, S. Karami, D. Zaridze, V. Janout, H. Kollarova, V. Bencko, M. Navratilova, S.-D. N., D. Mates, I. Holcatova, R. M. Pfeiffer, R. Z. Stolzenberg-Solomon, S. T. Mayne, M. Yeager, S. Chanock, N. Rothman, W. Chow, P. S. Rosenberg, P. Boffetta & L. E. Moore (2011) Comprehensive Evaluation of One-Carbon Metabolism Pathway Gene Variants and Renal Cell Cancer Risk. *PLoS ONE*, 6(10), e26165.
38. Moore L. E., M. L. Nickerson, P. Brennan, J. R. Toro, E. Jaeger, J. Rinsky, **S. S. Han**, D. Zaridze, V. Matveev, V. Janout, H. Kollarova, V. Bencko, M. Navratilova, N. Szeszenia-Dabrowska, D. Mates, L. S. Schmidt, P. Lenz, S. Karami, W. M. Linehan, M. Merino, S. Chanock, P. Boffetta, W. Chow, F. M. Waldman, N. Rothman. (2011) Somatic VHL inactivation: associations with germline VHL polymorphisms and etiologic risk factors for RCC. *PloS Genetics*, 7(10), e1002312.
39. van Bemmelen D.M., P. Boffetta, L. M. Dong, S. I. Berndt, I. Menashe, M. Yeager, S. Chanock, S. Karami, D. Zaridze, V. Matveev, V. Janout, H. Kollarova, V. Bencko, M. Navratilova, N. Szeszenia-Dabrowska, D. Mates, A. Slamova, P. Stewart, N. Rothman, **S. S. Han**, P. S. Rosenberg, P. Brennan, W. Chow, L.E. Moore (2011) Comprehensive Analysis of 5-Aminolevulinic Acid Dehydrogenase (ALAD) Variants and Renal Cell Carcinoma Risk among Individuals Exposed to Lead. *PloS ONE*, 6(7), e20432.
40. **Han, S. S.** & J. T. Chang (2010) Reconsidering the asymptotic null distribution of likelihood ratio tests for genetic linkage in multivariate variance components models under complete pleiotropy. *Biostatistics*, 11, 226.
41. Grigorenko, E. L., **S. S. Han**, C. M. Yrigollen, L. Leng, Y. Mizue, G. M. Anderson, E. J. Mulder, A. de Bildt, R. B. Minderaa & F. R. Volkmar (2008) Macrophage migration inhibitory factor and autism spectrum disorders. *Pediatrics*, 122, e438.
42. Yrigollen, C. M., **S. S. Han**, A. Kochetkova, T. Babitz, J. T. Chang, F. R. Volkmar, J. F. Leckman & E. L. Grigorenko (2008) Genes controlling affiliative behavior as candidate genes for autism. *Biological psychiatry*, 63, 911-916.

BOOK CHAPTERS

1. **Han, S.S.**, Raymond J. Carroll, and Nilanjan Chatterjee (2018) Analysis of Gene- Environment Interactions, a book chapter for Handbook of Statistical Methods for Case-Control Studies. CRC Press.

TEACHING AND MENTORING

- 2017 - Present Mentoring Master's and medical students on various projects
- Danny Huang, B.S. Medical Student at Stanford
 - Jacqueline Aredo, B.S. Medical Student at Stanford
 - Matthieu de Rochemonteix, B.S. Master's Student at Statistics Department
- 2017 - Present Advising Faculty for the Biomedical Informatics (BMI) Program, Stanford University School of Medicine
- 2016 - 2018 Methods Advisor, KL2 Research Training Program, The Stanford Center for Clinical and Translational Research Education
- Trainees:
- Erqi Pollom, MD, MS, Assistant Professor of Radiation Oncology, Stanford University
 - Tessa Andermann, MD, MPH, Postdoctoral Fellow, Stanford University
- 2016 Mentor, Intensive Course in Clinical Research (ICCR), The Stanford Center for Clinical and Translational Research Education
- 2015 - Present Mentoring research staff in the Quantitative Sciences Unit (QSU), Stanford University
- Trainees:
- Eric Chow, M.S.
 - Natasha Purington, M.S.
 - Victoria Ding, M.S.
- 2006 - 2008 Teaching Fellow at Statistics Department at Yale University:
- STAT 661 Multivariate Statistics
 - STAT 612 Linear Models
 - STAT 230 Introductory data analysis
 - STAT 100 Introduction to Statistics
- 2004 – 2006 Statistical Mentor
StatLab (Social Science Statistical Laboratory) at Yale University

NATIONAL AND LOCAL SERVICE

- 2018 - JSM Program Chair elect, Statistical Consulting Section, American Statistical Association
- 2018 - Member, Search Committee for Quantitative Sciences Unit & Department of Pathology Faculty, Stanford University
- 2017 - Member, Scientific Review Committee, Stanford Cancer Institute, Stanford University