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### EDUCATION

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2011.08 – 2015.05	Harvard University	ScD in Nutrition and Epidemiology • Advisor: Dr. Edward Giovannucci
2013.08 – 2014.05	Harvard University	MS in Biostatistics • Advisor: Dr. Donna Spiegelman
2008.08 – 2011.06	Peking University	MS in Epidemiology • Advisor: Dr. Weicheng You
2003.08 – 2008.06	Shandong University	MBBS in Preventive Medicine

### ACADEMIC POSITION

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2016.10 – Present	Instructor in Medicine	Clinical and Translational Epidemiology Unit Division of Gastroenterology Massachusetts General Hospital Harvard Medical School
2015.08 – 2016.10	Postdoctoral Fellow	Division of Gastroenterology Massachusetts General Hospital • Advisor: Dr. Andrew T. Chan  Department of Nutrition Harvard T.H. Chan School of Public Health • Advisor: Dr. Edward Giovannucci

### PROFESSIONAL POSITION

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2017.03 – Present	Assistant Director	MICRObiome Among Nurses (MICRO-N) Study Harvard T.H. Chan School of Public Health
2017.03 – Present	Member	Cancer Epidemiology and Gastrointestinal Malignancies Programs Dana-Farber / Harvard Cancer Center

### PUBLICATIONS

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#### Peer-Reviewed Journal Publications (\*co-first author)

1. Neumeyer S, Banbury BL, Arndt V, Berndt SI, Bezieau S, Bien SA, Buchanan DD, Butterbach K, Caan BJ, Campbell PT, Casey G, Chan AT, Chanock SJ, Dai JY, Gallinger S, Giovannucci EL, Giles GG, Grady WM, Hampe J, Hoffmeister M, Hopper JL, Hsu L, Jenkins MA, Joshi A, Larsson SC, Le Marchand L, Lindblom A, Moreno V, Lemire M, Li L, Lin Y, Offit K, Newcomb PA, Pharaoh PD, Potter JD, Qi L, Rennert G, Schafmayer C, Schoen RE, Slattery ML, **Song M**, Ulrich CM, Win AK, White E, Wolk A, Woods MO, Wu AH, Gruber SB, Brenner H, Peters U, Chang-Claude J, Mendelian

- randomisation study of age at menarche and age at menopause and the risk of colorectal cancer. Br J Cancer. 2018 May 24. doi: 10.1038/s41416-018-0108-8. [Epub ahead of print]
2. Staller K, **Song M**, Grodstein F, Whitehead WE, Matthews CA, Kuo B, Chan AT. Increased Long-term Dietary Fiber Intake is Associated With Decreased Risk of Fecal Incontinence in Older Women. Gastroenterology. 2018 May 11. pii: S0016-5085(18)34541-4. doi: 10.1053/j.gastro.2018.05.021. [Epub ahead of print]
  3. Juan J, Huang H, Jiang X, Ardisson Korat AV, **Song M**, Sun Q, Willett WC, Jensen MK, Kraft P. Joint effects of fatty acid desaturase 1 polymorphisms and dietary polyunsaturated fatty acid intake on circulating fatty acid proportions. Am J Clin Nutr. 2018 May 1;107(5):826-833.
  4. Liu L, Tabung FK, Zhang X, Nowak JA, Qian ZR, Hamada T, Nevo D, Bullman S, Mima K, Kosumi K, da Silva A, **Song M**, Cao Y, Twombly TS, Shi Y, Liu H, Gu M, Koh H, Li W, Du C, Chen Y, Li C, Li W, Mehta RS, Wu K, Wang M, Kostic AD, Giannakis M, Garrett WS, Huttenhower C, Chan AT, Fuchs CS, Nishihara R, Ogino S, Giovannucci EL. Diets That Promote Colon Inflammation Associate With Risk of Colorectal Carcinomas That Contain *Fusobacterium nucleatum*. Clin Gastroenterol Hepatol. 2018 Apr 24. pii: S1542-3565(18)30389-6. doi: 10.1016/j.cgh.2018.04.030. [Epub ahead of print]
  5. He X, Wu K, Ogino S, Giovannucci EL, Chan AT, **Song M**. Association between Risk Factors for Colorectal Cancer and Risk of Serrated Polyps and Conventional Adenomas. Gastroenterology. 2018 Apr 24. pii: S0016-5085(18)30480-3. doi: 10.1053/j.gastro.2018.04.019. [Epub ahead of print]
  6. Hang D, Nan H, Kværner AS, De Vivo I, Chan AT, Hu Z, Shen H, Giovannucci E, **Song M**. Longitudinal associations of lifetime adiposity with leukocyte telomere length and mitochondrial DNA copy number. Eur J Epidemiol. 2018 Apr 4.
  7. Van Blarigan EL, Fuchs CS, Niedzwiecki D, Ye X, Zhang S, **Song M**, Saltz L, Mayer RJ, Mowat RB, Whittom R, Hantel A, Benson A, Atienza D, Messino M, Kindler H, Venook A, Ogino S, Giovannucci EL, Meyerhardt JA. Marine  $\omega$ -3 polyunsaturated fatty acid and fish intake after colon cancer diagnosis and survival: CALGB 89803 (Alliance). Cancer Epidemiol Biomarkers Prev. 2018 Jan 22.
  8. Mehta RS, Abu-Ali GS, Drew DA, Lloyd-Price J, Subramanian A, Lochhead P, Joshi AD, Ivey KL, Khalili H, Brown GT, DuLong C, **Song M**, Nguyen LH, Mallick H, Rimm EB, Izard J, Huttenhower C, Chan AT. Stability of the human faecal microbiome in a cohort of adult men. Nat Microbiol. 2018 Jan 15.
  9. Liu L, Nevo D, Nishihara R, Cao Y, **Song M**, Twombly TS, Chan AT, Giovannucci EL, VanderWeele TJ, Wang M, Ogino S. Utility of inverse probability weighting in molecular pathological epidemiology. Eur J Epidemiol. 2017 Dec 20.
  10. **Song M**, Zheng Y, Qi L, Hu FB, Chan AT, Giovannucci EL. Longitudinal analysis of genetic susceptibility and body mass index throughout adult life. Diabetes. 2017 Dec 6.
  11. **Song M**, Zheng Y, Qi L, Hu FB, Chan AT, Giovannucci EL. Associations between genetic variants associated with body mass index and trajectories of body fatness across the life course: a longitudinal analysis. Int J Epidemiol. 2017 Dec 2.
  12. Zheng Y, **Song M**, Manson JE, Giovannucci EL, Hu FB. Group-Based Trajectory of Body Shape From Ages 5 to 55 Years and Cardiometabolic Disease Risk in 2 US Cohorts. Am J Epidemiol. 2017 Dec 1;186(11):1246-1255.
  13. Graff RE, Ahearn TU, Pettersson A, Ebot EM, Gerke T, Penney KL, Wilson KM, Markt SC, Pernar CH, Gonzalez-Feliciano AG, **Song M**, Lis RT, Schmidt DR, Vander Heiden MG, Fiorentino M, Giovannucci EL, Loda M, Mucci LA. Height, obesity, and the risk of TMPRSS2:ERG-defined prostate cancer. Cancer Epidemiol Biomarkers Prev. 2017 Nov 22.

14. Hu Y, Ding M, Yuan C, Wu K, Smith-Warner SA, Hu FB, Chan AT, Meyerhardt JA, Ogino S, Fuchs CS, Giovannucci EL, **Song M**. Association Between Coffee Intake After Diagnosis of Colorectal Cancer and Reduced mortality. Gastroenterology. 2017 Nov 17.
15. **Song M**, Wu K, Meyerhardt JA, Ogino S, Wang M, Fuchs CS, Giovannucci EL, Chan AT. Fiber intake and survival after colorectal cancer diagnosis. JAMA Oncol. 2017 Nov 2.
16. Liu L, Nishihara R, Qian ZR, Tabung FK, Nevo D, Zhang X, **Song M**, Cao Y, Mima K, Masugi Y, Shi Y, da Silva A, Twombly T, Gu M, Li W, Hamada T, Kosumi K, Inamura K, Nowak JA, Drew DA, Lochhead P, Nosho K, Wu K, Wang M, Garrett WS, Chan AT, Fuchs CS, Giovannucci EL, Ogino S. Association Between Inflammatory Diet Pattern and Risk of Colorectal Carcinoma Subtypes Classified by Immune Responses to Tumor. Gastroenterology. 2017 Sep 1.
17. Ananthakrishnan AN, Khalili H, **Song M**, Higuchi LM, Lochhead P, Richter JM, Chan AT. Genetic Polymorphisms in Fatty Acid Metabolism Modify the Association Between Dietary n3: n6 Intake and Risk of Ulcerative Colitis: A Prospective Cohort Study. Inflamm Bowel Dis. 2017 Nov;23(11):1898-1904.
18. Masugi Y\*, Nishihara R\*, Hamada T\*, **Song M\***, da Silva A, Kosumi K, Gu M, Shi Y, Li W, Liu L, Nevo D, Inamura K, Cao Y, Liao X, Nosho K, Chan AT, Giannakis M, Bass AJ, Hodi FS, Freeman GJ, Rodig SJ, Fuchs CS, Qian ZR, Nowak JA, Ogino S. Tumor PDCD1LG2 (PD-L2) Expression and the Lymphocytic Reaction to Colorectal Cancer. Cancer Immunol Res. 2017 Nov;5(11):1046-1055.
19. Yuan C, Bao Y, Sato K, Nimptsch K, **Song M**, Brand-Miller JC, Morales-Oyarvide V, Zoltick ES, Keum N, Wolpin BM, Meyerhardt JA, Chan AT, Willett WC, Stampfer MJ, Wu K, Giovannucci EL, Fuchs CS, Ng K. Influence of dietary insulin scores on survival in colorectal cancer patients. Br J Cancer. 2017 Aug 17.
20. Nimptsch K, **Song M**, Aleksandrova K, Katsoulis M, Freisling H, Jenab M, Gunter MJ, Tsilidis KK, Weiderpass E, Bueno-De-Mesquita HB, Chong DQ, Jensen MK, Wu C, Overvad K, Kühn T, Barrdahl M, Melander O, Jirström K, Peeters PH, Sieri S, Panico S, Cross AJ, Riboli E, Van Guelpen B, Myte R, Huerta JM, Rodriguez-Barranco M, Quirós JR, Dorronsoro M, Tjønneland A, Olsen A, Travis R, Boutron-Ruault MC, Carbonnel F, Severi G, Bonet C, Palli D, Janke J, Lee YA, Boeing H, Giovannucci EL, Ogino S, Fuchs CS, Rimm E, Wu K, Chan AT, Pischon T. Genetic variation in the ADIPOQ gene, adiponectin concentrations and risk of colorectal cancer: a Mendelian Randomization analysis using data from three large cohort studies. Eur J Epidemiol. 2017 May 26.
21. Hanyuda A, Cao Y, Hamada T, Nowak JA, Qian ZR, Masugi Y, da Silva A, Liu L, Kosumi K, Soong TR, Jhun I, Wu K, Zhang X, **Song M**, Meyerhardt JA, Chan AT, Fuchs CS, Giovannucci EL, Ogino S, Nishihara R. Body mass index and risk of colorectal carcinoma subtypes classified by tumor differentiation status. Eur J Epidemiol. 2017 May 16.
22. Hamada T, Cao Y, Qian ZR, Masugi Y, Nowak JA, Yang J, **Song M**, Mima K, Kosumi K, Liu L, Shi Y, da Silva A, Gu M, Li W, Keum N, Zhang X, Wu K, Meyerhardt JA, Giovannucci EL, Giannakis M, Rodig SJ, Freeman GJ, Nevo D, Wang M, Chan AT, Fuchs CS, Nishihara R, Ogino S. Aspirin Use and Colorectal Cancer Survival According to Tumor CD274 (Programmed Cell Death 1 Ligand 1) Expression Status. J Clin Oncol. 2017 Jun 1;35(16):1836-1844.
23. Mehta RS\*, **Song M\***, Nishihara R\*, Drew DA, Wu K, Qian ZR, Fung TT, Hamada T, Masugi Y, da Silva A, Shi Y, Li W, Gu M, Willett WC, Fuchs CS, Giovannucci EL, Ogino S, Chan AT. Dietary Patterns and Risk of Colorectal Cancer: Analysis by Tumor Location and Molecular Subtypes. Gastroenterology. 2017;152(8):1944-1953
24. Mehta RS\*, Nishihara R\*, Cao Y\*, **Song M\***, Mima K, Qian ZR, Nowak JA, Kosumi K, Hamada T, Masugi Y, Bullman S, Drew DA, Kostic AD, Fung TT, Garrett WS, Huttenhower C, Wu K, Meyerhardt JA, Zhang X, Willett WC, Giovannucci EL, Fuchs CS, Chan AT, Ogino S. Association of Dietary Patterns With Risk of Colorectal Cancer Subtypes Classified by Fusobacterium Nucleatum in

- Tumor Tissue. JAMA Oncol. 2017. Jan 26.
25. Cao Y, Wu K, Mehta R, Drew DA, **Song M**, Lochhead P, Nguyen LH, Izard J, Fuchs CS, Garrett WS, Huttenhower C, Ogino S, Giovannucci EL, Chan AT. Long-term use of antibiotics and risk of colorectal adenoma. Gut. 2017. Apr 4.
  26. **Song M**, Nishihara R, Cao Y, Chun E, Qian ZR, Mima K, Inamura K, Masugi Y, Nowak JA, Noshokawa K, Wu K, Wang M, Giovannucci E, Garrett WS, Fuchs CS, Ogino S, Chan AT. Marine omega-3 Polyunsaturated Fatty Acid Intake and Risk of Colorectal Cancer Characterized by Tumor-Infiltrating T Cells. JAMA Oncol. 2016;2(9):1197-1206.
  27. **Song M**, Giovannucci E. Preventable Incidence and Mortality of Carcinoma Associated With Lifestyle Factors Among White Adults in the United States. JAMA Oncol. 2016;2(9):1154-1161. (#1 Most Talked About Article of 2016 in JAMA Oncol)
  28. **Song M**, Fung TT, Hu FB, Willett WC, Longo VD, Chan AT, Giovannucci EL. Association of Animal and Plant Protein Intake With All-Cause and Cause-Specific Mortality. JAMA Intern Med. 2016;176(10):1453-1463. (#57 Most-Discussed Journal Article of 2016 across All Scientific Fields)
  29. **Song M**, Hu FB, Wu K, Must A, Chan AT, Willett WC, Giovannucci EL. Trajectory of body shape in early and middle life and all cause and cause specific mortality: results from two prospective US cohort studies. BMJ. 2016;353:i2195.
  30. **Song M**, Zhang X, Meyerhardt JA, Giovannucci EL, Ogino S, Fuchs CS, Chan AT. Marine omega-3 polyunsaturated fatty acid intake and survival after colorectal cancer diagnosis. Gut. 2016.
  31. **Song M**, Willett WC, Hu FB, Spiegelman D, Must A, Wu K, Chan AT, Giovannucci EL. Trajectory of body shape across the lifespan and cancer risk. Int J Cancer. 2016;138(10):2383-2395.
  32. **Song M**, Nishihara R, Wang M, Chan AT, Qian ZR, Inamura K, Zhang X, Ng K, Kim SA, Mima K, Sukawa Y, Noshokawa K, Fuchs CS, Giovannucci EL, Wu K, Ogino S. Plasma 25-hydroxyvitamin D and colorectal cancer risk according to tumour immunity status. Gut. 2016;65(2):296-304.
  33. **Song M**, Mehta RS, Wu K, Fuchs CS, Ogino S, Giovannucci EL, Chan AT. Plasma Inflammatory Markers and Risk of Advanced Colorectal Adenoma in Women. Cancer Prev Res (Phila). 2016;9(1):27-34.
  34. **Song M**, Konijeti GG, Yuan C, Ananthakrishnan AN, Ogino S, Fuchs CS, Giovannucci EL, Ng K, Chan AT. Plasma 25-Hydroxyvitamin D, Vitamin D Binding Protein, and Risk of Colorectal Cancer in the Nurses' Health Study. Cancer Prev Res (Phila). 2016;9(8):664-672.
  35. **Song M**, Hu FB, Spiegelman D, Chan AT, Wu K, Ogino S, Fuchs CS, Willett WC, Giovannucci EL. Long-term status and change of body fat distribution, and risk of colorectal cancer: a prospective cohort study. Int J Epidemiol. 2016;45(3):871-883.
  36. Mima K, Cao Y, Chan AT, Qian ZR, Nowak JA, Masugi Y, Shi Y, **Song M**, da Silva A, Gu M, Li W, Hamada T, Kosumi K, Hanyuda A, Liu L, Kostic AD, Giannakis M, Bullman S, Brennan CA, Milner DA, Baba H, Garraway LA, Meyerhardt JA, Garrett WS, Huttenhower C, Meyerson M, Giovannucci EL, Fuchs CS, Nishihara R, Ogino S. Fusobacterium nucleatum in Colorectal Carcinoma Tissue According to Tumor Location. Clin Transl Gastroenterol. 2016;7(11):e200.
  37. Nimptsch K, Zhang X, Cassidy A, **Song M**, O'Reilly EJ, Lin JH, Pischon T, Rimm EB, Willett WC, Fuchs CS, Ogino S, Chan AT, Giovannucci EL, Wu K. Habitual intake of flavonoid subclasses and risk of colorectal cancer in 2 large prospective cohorts. Am J Clin Nutr. 2016;103(1):184-191.
  38. Hanyuda A, Ogino S, Qian ZR, Nishihara R, **Song M**, Mima K, Inamura K, Masugi Y, Wu K, Meyerhardt JA, Chan AT, Fuchs CS, Giovannucci EL, Cao Y. Int J Cancer. 2016;139(4):854-68.
  39. Mima K, Nowak JA, Qian ZR, Cao Y, **Song M**, Masugi Y, Shi Y, da Silva A, Gu M, Li W, Hamada T, Zhang X, Wu K, Meyerhardt JA, Baba H, Giovannucci EL, Chan AT, Fuchs CS, Ogino S, Nishihara R. Tumor LINE-1 methylation level and colorectal cancer location in relation to patient survival. Oncotarget. 2016;7(34):55098-55109.
  40. Mima K, Nishihara R, Nowak JA, Kim SA, **Song M**, Inamura K, Sukawa Y, Masuda A, Yang J, Dou

- R, Noshio K, Baba H, Giovannucci EL, Bowden M, Loda M, Giannakis M, Bass AJ, Dranoff G, Freeman GJ, Chan AT, Fuchs CS, Qian ZR, Ogino S. MicroRNA MIR21 and T Cells in Colorectal Cancer. Cancer Immunol Res. 2016;4(1):33-40.
41. Mima K, Nishihara R, Yang J, Dou R, Masugi Y, Shi Y, da Silva A, Cao Y, **Song M**, Nowak J, Gu M, Li W, Morikawa T, Zhang X, Wu K, Baba H, Giovannucci EL, Meyerhardt JA, Chan AT, Fuchs CS, Qian ZR, Ogino S. MicroRNA MIR21 (miR-21) and PTGS2 Expression in Colorectal Cancer and Patient Survival. Clinical Cancer Research. 2016;22(15):3841-3848.
  42. Masugi Y, Nishihara R, Yang J, Mima K, da Silva A, Shi Y, Inamura K, Cao Y, **Song M**, Nowak JA, Liao X, Noshio K, Chan AT, Giannakis M, Bass AJ, Hodi FS, Freeman GJ, Rodig S, Fuchs CS, Qian ZR, Ogino S. Tumour CD274 (PD-L1) expression and T cells in colorectal cancer. Gut. 2016.
  43. Le NT, Michels FA, **Song M**, Zhang X, Bernstein AM, Giovannucci EL, Fuchs CS, Ogino S, Chan AT, Sinha R, Willett WC, Wu K. A Prospective Analysis of Meat Mutagens and Colorectal Cancer in the Nurses' Health Study and Health Professionals Follow-up Study. Environ health perspect. 2016;124(10):1529-1536.
  44. Inamura K\*, **Song M\***, Jung S\*, Nishihara R\*, Yamauchi M, Lochhead P, Qian ZR, Kim SA, Mima K, Sukawa Y, Masuda A, Imamura Y, Zhang X, Pollak MN, Mantzoros CS, Harris CC, Giovannucci E, Fuchs CS, Cho E, Chan AT, Wu K, Ogino S. Prediagnosis Plasma Adiponectin in Relation to Colorectal Cancer Risk According to KRAS Mutation Status. J Natl Cancer Inst. 2016;108(4).
  45. Cao Y, Nishihara R, Qian ZR, **Song M\***, Mima K, Inamura K, Nowak JA, Drew DA, Lochhead P, Noshio K, Morikawa T, Zhang X, Wu K, Wang M, Garrett WS, Giovannucci EL, Fuchs CS, Chan AT, Ogino S. Regular Aspirin Use Associates With Lower Risk of Colorectal Cancers With Low Numbers of Tumor-Infiltrating Lymphocytes. Gastroenterology. 2016; 151(5):879-892
  46. Babic A, Shah SM, **Song M**, Wu K, Meyerhardt JA, Ogino S, Yuan C, Giovannucci EL, Chan AT, Stampfer MJ, Fuchs CS, Ng K. Soluble tumour necrosis factor receptor type II and survival in colorectal cancer. Br J Cancer. 2016;114(9):995-1002.
  47. Mima K, Nishihara R, Qian ZR, Cao Y, Sukawa Y, Nowak JA, Yang J, Dou R, Masugi Y, **Song M**, Kostic AD, Giannakis M, Bullman S, Milner DA, Baba H, Giovannucci EL, Garraway LA, Freeman GJ, Dranoff G, Garrett WS, Huttenhower C, Meyerson M, Meyerhardt JA, Chan AT, Fuchs CS, Ogino S. Fusobacterium nucleatum in colorectal carcinoma tissue and patient prognosis. Gut. 2016;65(12):1973-1980.
  48. Thrift AP, Gong J, Peters U, Chang-Claude J, Rudolph A, Slattery ML, Chan AT, Locke AE, Kahali B, Justice AE, Pers TH, Gallinger S, Hayes RB, Baron JA, Caan BJ, Ogino S, Berndt SI, Chanock SJ, Casey G, Haile RW, Du M, Harrison TA, Thornquist M, Duggan DJ, Le Marchand L, Lindor NM, Seminara D, **Song M**, Wu K, Thibodeau SN, Cotterchio M, Win AK, Jenkins MA, Hopper JL, Ulrich CM, Potter JD, Newcomb PA, Hoffmeister M, Brenner H, White E, Hsu L, Campbell PT. Mendelian Randomization Study of Body Mass Index and Colorectal Cancer Risk. Cancer Epidemiol, Biomarkers Prev. 2015;24(7):1024-1031.
  49. Thrift AP, Gong J, Peters U, Chang-Claude J, Rudolph A, Slattery ML, Chan AT, Esko T, Wood AR, Yang J, Vedantam S, Gustafsson S, Pers TH, Baron JA, Bezieau S, Kury S, Ogino S, Berndt SI, Casey G, Haile RW, Du M, Harrison TA, Thornquist M, Duggan DJ, Le Marchand L, Lemire M, Lindor NM, Seminara D, **Song M**, Thibodeau SN, Cotterchio M, Win AK, Jenkins MA, Hopper JL, Ulrich CM, Potter JD, Newcomb PA, Schoen RE, Hoffmeister M, Brenner H, White E, Hsu L, Campbell PT. Mendelian randomization study of height and risk of colorectal cancer. Int J Epidemiol. 2015;44(2):662-672.
  50. **Song M**, Nishihara R, Wu K, Qian ZR, Kim SA, Sukawa Y, Mima K, Inamura K, Masuda A, Yang J, Fuchs CS, Giovannucci EL, Ogino S, Chan AT. Marine  $\omega$ -3 polyunsaturated fatty acids and risk of colorectal cancer according to microsatellite instability. J Natl Cancer Inst. 2015;107(4).
  51. **Song M**, Hu FB, Spiegelman D, Chan AT, Wu K, Ogino S, Fuchs CS, Willett WC, Giovannucci EL. Adulthood Weight Change and Risk of Colorectal Cancer in the Nurses' Health Study and Health

- Professionals Follow-up Study. *Cancer Prev Res (Phila)*. 2015;8(7):620-627.
52. **Song M**, Gong J, Giovannucci EL, Berndt SI, Brenner H, Chang-Claude J, Curtis KR, Harrison TA, Hoffmeister M, Hsu L, Jiao S, Le Marchand L, Potter JD, Schoen RE, Seminara D, Slattery ML, White E, Wu K, Ogino S, Fuchs CS, Hunter DJ, Tworoger SS, Hu FB, Rimm E, Jensen M, Peters U, Chan AT. Genetic variants of adiponectin and risk of colorectal cancer. *Int J Cancer*. 2015;137(1):154-164.
  53. Mehta RS, Chong DQ, **Song M**, Meyerhardt JA, Ng K, Nishihara R, Qian Z, Morikawa T, Wu K, Giovannucci EL, Fuchs CS, Ogino S, Chan AT. Association Between Plasma Levels of Macrophage Inhibitory Cytokine-1 Before Diagnosis of Colorectal Cancer and Mortality. *Gastroenterology*. 2015;149(3):614-622.
  54. Maguire LH, **Song M**, Strate LL, Giovannucci EL, Chan AT. Association of geographic and seasonal variation with diverticulitis admissions. *JAMA Surg*. 2015;150(1):74-77.
  55. Chong DQ, Mehta RS, **Song M**, Kedrin D, Meyerhardt JA, Ng K, Wu K, Fuchs CS, Giovannucci EL, Ogino S, Chan AT. Prediagnostic Plasma Adiponectin and Survival among Patients with Colorectal Cancer. *Cancer Prev Res (Phila)*. 2015;8(12):1138-1145.
  56. Bernstein AM\*, **Song M\***, Zhang X, Pan A, Wang M, Fuchs CS, Le N, Chan AT, Willett WC, Ogino S, Giovannucci EL, Wu K. Processed and Unprocessed Red Meat and Risk of Colorectal Cancer: Analysis by Tumor Location and Modification by Time. *PLoS One*. 2015;10(8):e0135959.
  57. Ananthakrishnan AN, Khalili H, **Song M**, Higuchi LM, Richter JM, Nimptsch K, Wu K, Chan AT. High School Diet and Risk of Crohn's Disease and Ulcerative Colitis. *Inflamm Bowel Dis*. 2015;21(10):2311-2319.
  58. Ananthakrishnan AN, Khalili H, **Song M**, Higuchi LM, Richter JM, Chan AT. Zinc intake and risk of Crohn's disease and ulcerative colitis: a prospective cohort study. *Int J Epidemiol*. 2015;44(6):1995-2005.
  59. **Song M**, Wu K, Chan AT, Fuchs CS, Giovannucci EL. Plasma 25-hydroxyvitamin D and risk of colorectal cancer after adjusting for inflammatory markers. *Cancer Epidemiol, Biomarkers Prev*. 2014;23(10):2175-2180.
  60. **Song M**, Chan AT, Fuchs CS, Ogino S, Hu FB, Mozaffarian D, Ma J, Willett WC, Giovannucci EL, Wu K. Dietary intake of fish, omega-3 and omega-6 fatty acids and risk of colorectal cancer: A prospective study in U.S. men and women. *Int J Cancer*. 2014;135(10):2413-2423.
  61. Mehta RS, **Song M**, Bezawada N, Wu K, Garcia-Albeniz X, Morikawa T, Fuchs CS, Ogino S, Giovannucci EL, Chan AT. A prospective study of macrophage inhibitory cytokine-1 (MIC-1/GDF15) and risk of colorectal cancer. *J Natl Cancer Inst*. 2014;106(4):dju016.
  62. Bezawada N, **Song M**, Wu K, Mehta RS, Milne GL, Ogino S, Fuchs CS, Giovannucci EL, Chan AT. Urinary PGE-M levels are associated with risk of colorectal adenomas and chemopreventive response to anti-inflammatory drugs. *Cancer Prev Res (Phila)*. 2014;7(7):758-765.
  63. **Song MY**, Su HJ, Zhang L, Ma JL, Li JY, Pan KF, You WC. Genetic polymorphisms of miR-146a and miR-27a, H. pylori infection, and risk of gastric lesions in a Chinese population. *PLoS One*. 2013;8(4):e61250.
  64. **Song M**, Zhang X, Wu K, Ogino S, Fuchs CS, Giovannucci EL, Chan AT. Plasma adiponectin and soluble leptin receptor and risk of colorectal cancer: a prospective study. *Cancer Prev Res (Phila)*. 2013;6(9):875-885.
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  66. Maguire LH, **Song M**, Strate LE, Giovannucci EL, Chan AT. Higher serum levels of vitamin D are associated with a reduced risk of diverticulitis. *Clin Gastroenterol Hepatol*. 2013;11(12):1631-1635.
  67. **Song MY**, Pan KF, Su HJ, Zhang L, Ma JL, Li JY, Yuasa Y, Kang D, Kim YS, You WC. Identification of serum microRNAs as novel non-invasive biomarkers for early detection of gastric cancer. *PLoS One*. 2012;7(3):e33608.

68. Yuan XM, Wang N, Ouyang T, Yang L, **Song MY**, Lin BY, Xie YT, Li JF, Pan KF, You WC, Zhang L. Current status of diagnosis and treatment of primary breast cancer in Beijing, 2008. Chin J Cancer Res. 2011;23(1):38-42.

### Reviews, Editorials and Other Publications

69. **Song M**, Giovannucci EL. Substitution analysis in nutritional epidemiology: proceed with caution. Eur J Epidemiol. 2018 Feb;33(2):137-140.
70. Ogino S, Nowak JA, Hamada T, Phipps AI, Peters U, Milner DA Jr, Giovannucci EL, Nishihara R, Giannakis M, Garrett WS, **Song M**. Integrative analysis of exogenous, endogenous, tumour and immune factors for precision medicine. Gut. 2018 Feb 6.
71. **Song M**, Chan AT. Diet, Gut Microbiota, and Colorectal Cancer Prevention: a Review of Potential Mechanisms and Promising Targets for Future Research. Curr Colorectal Cancer Rep. 2017
72. Kim H, **Song M**, Giovannucci EL. RE: Levi et al, Adolescent body mass index and risk of colon and rectal cancer in a cohort of 1.79 million Israeli men and women: A population-based study. Cancer. 2017 Oct 30.
73. Campbell PT, Rebbeck TR, Nishihara R, Beck AH, Begg CB, Bogdanov AA, Cao Y, Coleman HG, Freeman GJ, Heng YJ, Huttenhower C, Irizarry RA, Kip NS, Michor F, Nevo D, Peters U, Phipps AI, Poole EM, Qian ZR, Quackenbush J, Robins H, Rogan PK, Slattery ML, Smith-Warner SA, **Song M**, VanderWeele TJ, Xia D, Zabor EC, Zhang X, Wang M, Ogino S. Proceedings of the third international molecular pathological epidemiology (MPE) meeting. Cancer Causes Control. 2017.
74. **Song M**, Giovannucci E. Estimating the Influence of Obesity on Cancer Risk: Stratification by Smoking Is Critical. J Clin Oncol. 2016;34(27):3237-3239.
75. Keum N, **Song M**, Giovannucci E, Eliassen AH. Obesity and body composition. In: Schottenfeld D, Fraumeni JF, Jr., eds. Cancer Epidemiology and Prevention. 4 Edition. New York: Oxford University Press; 2016.
76. **Song M**, Giovannucci EL. RE: Doll and Peto's Quantitative Estimates of Cancer Risks: Holding Generally True for 35 Years. J Natl Cancer Inst. 2015;107(10).
77. **Song M**, Giovannucci EL. Cancer risk: many factors contribute. Science. 2015;347(6223):728-729.
78. **Song M**, Garrett WS, Chan AT. Nutrients, foods, and colorectal cancer prevention. Gastroenterology. 2015;148(6):1244-1260.
79. **Song M**, Giovannucci EL. RE: Laird et al, Vitamin D deficiency is associated with inflammation in older Irish adults. J Clin Endocrinol Metab. 2014.
80. **Song M**, Giovannucci EL. Antihypertension and colorectal cancer prevention: getting two birds with one stone? J Natl Cancer Inst. 2014;106(2):djt438.

### GRANTS

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#### Active

2018.02 – 2023.01      K99CA215314, NIH/NCI  
 Marine Omega-3 Polyunsaturated Fatty Acid, Gut Microbiome, and Colorectal  
 Cancer Prevention  
 Role: PI

2018.07 – 2023.06	Mentored Research Scholar Grant, American Cancer Society (MRS-G-17-220-01 – NEC) Marine Omega-3 Fatty Acid, Tumor Immunity and Colorectal Cancer Role: PI
2018.01 – 2018.12	Union for International Cancer Control (UICC) Yamagiwa-Yoshida Memorial International Cancer Study Grant (Yamagiwa-Yoshida Award YY2/17/554363) Sessile Serrated Adenoma and Colorectal Cancer: A Swedish Record Linkage Study Role: PI
<b>Pending</b>	
2017.12 – 2022.11	R01, NIH/NCI The Gut Microbiome, Lifestyle, and Colorectal Neoplasia (Score of 21, 9 <sup>th</sup> percentile on the resubmission, under consideration for funding) Role: Co-I (co-wrote the grant with Dr. Andrew Chan [PI])
<b>Completed</b>	
2017.01 – 2017.12	AACR-AstraZeneca Immuno-Oncology Research Fellowship, American Association for Cancer Research (17-40-12-SONG) Marine Omega-3 Fatty Acids for the Immunotherapy of Colorectal Cancer Role: PI
2015.06 – 2016.06	Harvard Transdisciplinary Research in Energetics and Cancer (TREC) Center developmental award, NIH/NCI Energy Balance and Gut Microbiota Role: PI (mentored by Dr. Andrew T. Chan)
2014.06 – 2015.06	Harvard Transdisciplinary Research in Energetics and Cancer (TREC) Center developmental award, NIH/NCI Energy Balance and Colorectal Cancer: Potential Roles of Dietary and Lifestyle Factors Role: PI (mentored by Dr. Edward Giovannucci)

## SELECTED HONORS AND AWARDS

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2017.04	NextGen Star Award (1 of the 6 recipients) for the 108th American Association for Cancer Research (AACR) Annual Meeting, 2017, Washington, DC
2016.05	Trainee Award for the Third International Molecular Pathological Epidemiology Meeting, 2016, Boston, MA
2016.04	Scholar-in-Training Award for the 107th American Association for Cancer Research (AACR) Annual Meeting, 2016, New Orleans, LA
2015.09	Distinction in Teaching, Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston, MA
2015.05	Teaching Assistant Award (1 of the 3 recipients), Harvard T.H. Chan School of Public Health, Boston, MA



2015.04	Scholar-in-Training Award for the 106th American Association for Cancer Research (AACR) Annual Meeting, 2015, Philadelphia, PA
2014.12	Trainee Award for the Second International Molecular Pathological Epidemiology Meeting, 2014, Boston, MA
2014.10	Scholar-in-Training Award for the 13th Annual American Association for Cancer Research (AACR) International Conference on Frontiers in Cancer Prevention Research, 2014, New Orleans, LA
2013.11	Scholarship for the American Institute for Cancer Research (AICR) Annual Research Conference, Bethesda, MD
2011.06	Distinguished Graduate of Peking University, China
2007.12	Presidential Scholarship of Shandong University, China
2007.11	National Scholarship for Outstanding Students, Ministry of Education, China

## **TEACHING AND MENTORING EXPERIENCES**

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2018.05	Guest Lecture in PBHL E775 Doctoral Research Seminar in Epidemiology, Indiana University, Richard M. Fairbanks School of Public Health
2018.03	Guest Lecture on “Colorectal Cancer Epidemiology”, SPHEP 752 Cancer Epidemiology, Boston University School of Public Health
2017.11	Guest Lecture on “Marine Omega-3 Fatty Acid and Colorectal Cancer: A Framework for Translating Nutritional Epidemiology into Clinical Practice”, ID 510 Nutritional Epidemiology of Cancer, Harvard T.H. Chan School of Public Health
2015.09 – 2015.11	TA, EPI 215 Advanced Topics in Case-Control and Cohort Studies, Harvard T.H. Chan School of Public Health Responsible for two labs, weekly office hours, and revising and grading homework assignments
2015.01 – 2015.05	TA, BIO 223 Applied Survival Analysis, Harvard T.H. Chan School of Public Health Responsible for weekly labs, grading homework assignments, and holding weekly office hours
2014.08 – 2014.10	Head TA, EPI 215 Advanced Topics in Case-Control and Cohort Studies, Harvard T.H. Chan School of Public Health Responsible for three labs, weekly office hours, and revising and grading homework assignments
2014.08 – 2014.10	TA, EPI 515 Measurement Error and Misclassification, Harvard T.H. Chan School of Public Health Responsible for revising and grading homework assignments and final exams, and holding weekly office hours
2014.07 – 2014.08	Tutor for a group of 5 students, BIO 202 Principles of Biostatistics, Harvard Medical School Responsible for reviewing course materials, answering homework questions, and leading group discussions

2014.03 – 2014.05	TA, EPI 204 Analysis of Case-Control and Cohort Epidemiologic Data, Harvard T.H. Chan School of Public Health Responsible for weekly labs, weekly office hours, revising and grading homework assignments and final projects
2013.09 – 2013.11	TA, EPI 515 Measurement Error and Misclassification, Harvard T.H. Chan School of Public Health Responsible for revising and grading homework assignments and exams, and weekly office hours
2013.07 – 2013.08	Tutor for a group of 6 students, BIO 202 Principles of Biostatistics, Harvard Medical School Responsible for reviewing course materials, answering homework questions, and leading group discussions

### INVITED ORAL PRESENTATIONS

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2018.01	American Society of Clinical Oncology (ASCO) GI symposium, San Francisco, CA General Session: Contemporary Management of Colorectal Cancer Liver Metastases Clinician Scientist Perspective
2017.11	Simmons College, Boston, MA Marian Mason Nutrition Seminar Diet and Colorectal Cancer Prevention: What Can We Learn from Clinical Trials?
2017.09	Dana Farber/Harvard Cancer Center Brief Updates: Precision Prevention and Early Detection (P2ED) Marine Omega-3 Fatty Acid and Precision Prevention of Colorectal Cancer
2017.09	Obesity Working Group Meeting, Harvard T.H. Chan School of Public Health Longitudinal analysis of genetic obesity variants and body mass index throughout adult life
2017.05	Digestive Disease Week, Chicago, IL Fiber Intake and Survival after Colorectal Cancer Diagnosis
2017.04	American Association for Cancer Research (AACR) Annual Meeting, Washington, DC Omega-3 Fatty Acid and Colorectal Cancer Prevention and Treatment
2017.01	Inaugural Symposium of the International Society for Omega-3 Research, Boston, MA Omega-3 Intake and Colorectal Cancer Incidence and Survival
2016.09	Channing Division of Network Medicine Omics Seminar, Brigham and Women's Hospital, Boston, MA Marine omega-3 Polyunsaturated Fatty Acids and Risk of Colorectal Cancer According to Tumor Immune Profile
2016.06	Epidemiology Congress of the Americas, Miami, FL The Missing Covariate Indicator Method is Nearly Valid Almost Always

2016.05	Digestive Disease Week, San Diego, CA Marine omega-3 Polyunsaturated Fatty Acid Intake and Survival after Colorectal Cancer Diagnosis
2016.03	Channing Division of Network Medicine Breakfast Seminar, Brigham and Women's Hospital, Boston, MA Trajectory of Body Shape across the Lifespan: the Implications for Cancer and Mortality Risk
2015.05	Gastroenterology Unit Retreat, Massachusetts General Hospital, Boston, MA Marine Omega-3 Polyunsaturated Fatty Acids and Risk of Colorectal Cancer According to Tumor Immune Profile
2014.09	The 13th Annual AACR International Conference on Frontiers in Cancer Prevention Research, New Orleans, LA Plasma 25-hydroxyvitamin D and Colorectal Cancer Risk According to Tumor Immunity Status

## **GRANT REVIEW**

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2018.05	“Screening, 2017-2018”, The Netherlands Organisation for Health Research and Development (ZonMw) Reviewer
2018.04	World Cancer Research Fund International Regular Grant Programme 2017-18 Reviewer
2016.08	“Population Research Committee”, Cancer Research UK Reviewer

## **REVIEW COMMITTEE**

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2018.01	Abstract reviewer for the Society of Epidemiologic Research (SER) 2018 Annual Meeting
2017.09	Abstract review committee for the Digestive Disease Week® (DDW) 2018, American Gastroenterology Association (AGA) Institute
2017.09	Reviewer for <i>Data Ideation Challenge</i> , Harvard Catalyst   The Harvard Clinical and Translational Science Center

## **AD HOC PEER REVIEW ACTIVITIES**

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*American Journal of Clinical Nutrition*

*American Journal of Epidemiology*

*American Journal of Gastroenterology*

*American Journal of Preventive Medicine*

*British Journal of Cancer*

*British Journal of Nutrition*

*British Medical Journal (BMJ)*

*BMJ Open*

*Cancer Causes and Control*

*Cancer Epidemiology, Biomarkers & Prevention*  
*Carcinogenesis*  
*Clinical Gastroenterology and Hepatology*  
*Diabetes Care*  
*European Journal of Nutrition*  
*Gastroenterology*  
*Genomics*  
*International Journal of Cancer*  
*International Journal of Epidemiology*  
*JAMA*  
*JAMA Oncology*  
*Journal of Clinical Oncology (JCO)*  
*Journal of Oncology Practice*  
*Journal of the National Cancer Institute (JNCI)*  
*JNCI Cancer Spectrum*  
*Lancet Diabetes & Endocrinology*  
*Molecular Carcinogenesis*  
*Nature Communications*  
*Nature Medicine*  
*PLoS ONE*  
*Public Health Nutrition*  
*Science*  
*Scientific Reports*