

DIANQIN SUN<https://dianqinsun.com>

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National Cancer Center, Chinese Academy of Medical Sciences & Peking Union Medical College
(CAMS & PUMC), Beijing 100021, China**EDUCATION**

- 9/2019-Present
Expected 6/2022 **Peking Union Medical College**, China
MMed, Epidemiology and Health Statistics, **GPA: 4.00/4.00**
Dissertation: *“Reducing social inequalities in gastric cancer from primary prevention to cancer screening.”*
- 9/2014-6/2019 **Capital Medical University**, China
BMed, Preventive Medicine, **GPA: 3.93/4.00**

GRANTS AND HONORS

- 2021 First Class Scholarship
Peking Union Medical College
- 2020 Second Class Scholarship
Peking Union Medical College
- 2019 Best Undergraduate Thesis Award
School of Public Health, Capital Medical University
- 2018 First Class Scholarship; Outstanding Student Leader
Capital Medical University
- 2017 Climate Adaptation Youth Intervention Program Grant
China Youth Leaders Foundation
- 2016 First Class Scholarship; Outstanding Student
Capital Medical University
- 2015 First Prize, 32nd National Physics Competition for College Students
Beijing Physical Society

RESEARCH EXPERIENCE

- 9/2019-Present **National Cancer Center, Cancer Hospital CAMS & PUMC**
Graduate Student Researcher with Professor Wanqing Chen
Reducing social inequalities in gastric cancer from primary prevention to cancer screening
- Examined sociodemographic disparities in gastric cancer and the gastric precancerous cascade (first author, *Lancet Reg Health West Pac*, under revision)
 - Applied causal mediation analysis to identify intervention targets for reducing social inequalities in gastric cancer (first author, abstract on World Congress of Epidemiology, 2021)
 - Improved gastric cancer prediction model's performance in effectiveness and equity and avoid bias for different socioeconomic groups in cancer screening services (work in progress)
- Cancer burden in China: trends, risk factors, and prevention

- Summarized the trend of cancer burden in China (first author, *Chin J Cancer Res*, 2020; *Cancer Biol Med*, 2020)
- Quantified the impact of change in dietary pattern on the cancer burden in China using the comparative risk assessment (first author, under review)
- Used the growth mixture modeling analysis to identify trajectories of cancer burden among 204 countries from 1990 to 2019 and performed the latent class analysis to characterize the pattern of cancer burden trends globally (work in progress)

12/2017-6/2019

Department of Child, Adolescent Health and Maternal Care, Capital Medical University**Research Assistant with Professor Yifei Hu**

Awareness of influenza vaccination among pregnant women and their obstetricians in Beijing

- Investigated factors that might influence the willingness of pregnant women to accept influenza vaccine and the willingness of obstetricians to recommend these vaccines (co-first author, *Hum Vaccin Immunother*, 2019)

Participated in the baseline survey of Beijing Child Growth and Health Cohort (PROC) Study

9/2017-6/2019

Department of Epidemiology and Health Statistics, Capital Medical University**Research Assistant with Professor Lixin Tao and Professor Ling Zhang**

Cognitive and mental health in old adults

- Investigated the association between superoxide dismutase activity and risk of cognitive decline (first author, *Exp Gerontol*, 2019)
- Examined the effect of serum 25(OH)D levels on depression in older adults using meta-analysis (co-first author, *Am J Geriatr Psychiatry*, 2019)

The health effect of ambient air pollution

- Assessed the association between fine particulate matter exposure and the progression of arterial stiffness (first author, *Environ Health*, 2021)
- Investigated the association between ambient air pollution and mortality among children aged under five years using generalized additive models (third author, *Environ Res*, 2019)

RELATED PROFESSIONAL EXPERIENCE

6/2021-Present

MediecoGroup.com
Columnist

- Wrote online articles to introduce epidemiologic methods (e.g., *target trial emulation* and *time-related biases*)

2/2020-9/2021

Chen Wang. Advanced Textbook of Tobacco Medicine. Peking Union Medical College Press, 2021
Contributor

- Reviewed literature and wrote the *Secondhand smoke and cancer* section

4/2020-6/2021

Working Group for drafting Cancer Screening Guidelines, National Cancer Center, Cancer Hospital CAMS & PUMC
Member

- Reviewed literature and drafted the *Risk and Protective Factors* section

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for the Colorectal Cancer Screening Guideline of China

- 7/2018-10/2018 **Dongcheng District CDC, Beijing**
Internship
- Conducted health education in communities and schools
 - Participated in the residents' dietary survey
 - Analyzed data from the HIV sentinel surveillance system
- 4/2017-7/2017 **Beijing Anzhen Hospital, the National Clinical Research Center for Cardiovascular Diseases**
Clinical Internship
- Received training in pediatric medicine, obstetrics and gynecology, internal medicine, surgery

LEADERSHIP

- 9/2019-8/2020 **Epidemiology Student Association, CAMS & PUMC**
Executive President
- Organized and led graduate students to promote proper methods in health research
 - Managed 10 public seminars in *Real-World Evidence*; Taught ***use of DAGs in health research*** in one seminar
 - Managed the club's social media account and convened epidemiology students to write educational articles
- 10/2019-9/2020 **Department of Academics, Cancer Hospital Graduate Student Association, CAMS & PUMC**
Director
- Organized *New Student Seminars*
 - Assisted in the organization of *New Year's Gala*
- 10/2016-11/2016 **World Language Atlas program, UNESCO-TALKMATE NEXUS**
Volunteer
- Conducted user interviews and testing, performed marketing assessment, and developed advertising strategies for TALKMATE APP
 - Ranked 1st in a strategy competition among 37 teams and earned the honor *Excellent Volunteer*

CONFERENCE PAPERS

Sun D, Li H, Cao M, He S, Chen W. Dietary patterns and prostate cancer using latent class analysis. Poster presentation delivered at ***Chinese Conference on Oncology***, Zhengzhou, China, November 2021.

Sun D, Lei L, Li H, Cao M, He S, Zhang Z, Guo G, Song G, Peng J, Chen W. The contribution of health behaviors to educational inequalities in gastric high-grade dysplasia and gastric cancer. Poster presentation delivered at ***World Congress of Epidemiology***, virtual, Australia, September, 2021.

PUBLICATIONS

Peer-reviewed Research Articles (*equal effort)

Sun D, Liu Y, Zhang J, Liu J, Wu Z, Liu M, Li X, Guo X, Tao L. Long-term effects of fine particulate matter exposure on the progression of arterial stiffness. *Environmental Health*. 2021;20(1):2.

Sun D, Cao M, Li H, Ren J, Shi J, Li N, Chen W. Risk of prostate cancer in men with HIV/AIDS: a systematic review and meta-analysis. *Prostate Cancer and Prostatic Diseases*. 2021;24(1):24-34.

Sun D, Cao M, Li H, He S, Chen W. Cancer burden and trends in China: a review and comparison with Japan and South Korea. *Chinese Journal of Cancer Research*. 2020;32(2):129-139.

Li H*, **Sun D***, Wang A, Pan H, Feng W, Ng C H, Ungvari G S, Tao L, Li X, Wang W, Xiang Y T, Guo X. Serum 25-hydroxyvitamin D levels and depression in older adults: a dose-response meta-analysis of prospective cohort studies. *American Journal of Geriatric Psychiatry*. 2019;27(11):1192-1202.

Wang J*, **Sun D***, Abudusaimaiti X, Vermund SH, Li D, Hu Y. Low awareness of influenza vaccination among pregnant women and their obstetricians: a population-based survey in Beijing, China. *Human Vaccines & Immunotherapeutics*. 2019;15(11):2637-2643.

Sun D, Sun X, Xu Y, Wu T, Tao L. Superoxide dismutase activity and risk of cognitive decline in older adults: findings from the Chinese Longitudinal Healthy Longevity Survey. *Experimental Gerontology*. 2019;118:72-77.

Wang J*, Cao H*, **Sun D**, Qi Z, Guo C, Peng W, Sun Y, Xie Y, Liu X, Li B, Luo Y, Pan Y, Li Y, Zhang L. Associations between ambient air pollution and mortality from all causes, pneumonia, and congenital heart diseases among children aged under 5 years in Beijing, China: a population-based time series study. *Environmental Research*. 2019;176:108531.

Chen W*, Li H*, Ren J, Zheng R, Shi J, Li J, Cao M, **Sun D**, He S, Sun X, Cao X, Feng S, Zhou J, Luo P, Zha Z, Jia S, Wang J, Ma H, Zeng H, Canfell K, He J. Selection of high-risk individuals for esophageal cancer screening: a prediction model of esophageal squamous cell carcinoma based on a multicenter screening cohort in rural China. *International Journal of Cancer*. 2021;148(2):329-339.

Chen W*, Li H*, Zheng R, Ren J, Shi J, Cao M, **Sun D**, Sun X, Cao X, Zhou J, Luo P, Wang J, Ma H, Shao T, Zhao C, He S, Sun D, Xu Y, Wu P, Zeng H, Li J, He J. An initial screening strategy based on epidemiologic information in esophageal cancer screening: a prospective evaluation in a community-based cancer screening cohort in rural China. *Gastrointestinal Endoscopy*. 2021;93(1):110-118.e112.

Cao M, Li H, **Sun D**, Lei L, Ren J, Shi J, Li N, Peng J, Chen W. Classifying risk level of gastric cancer: evaluation of questionnaire-based prediction model. *Chinese Journal of Cancer Research*. 2020;32(5):605-613.

Li H, Zeng H, Zheng R, Zou X, Cao M, **Sun D**, Zhou J, Luo P, Jia S, Zha Z, Wang J, Ma H, Sun X, Cao X, Feng S, Fan L, Shi J, Chen W. Association of cancer awareness levels with the risk of cancer in rural China: a population-based cohort study. *Cancer*. 2020;126(20):4563-4571.

Reviews, Commentaries and Other Publications

Sun D, Li H, Cao M, He S, Lei L, Peng J, Chen W. Cancer burden in China: trends, risk factors and prevention. *Cancer Biology & Medicine*. 2020;17(4):879-895.

Cao M, Li H, **Sun D**, He S, Yu Y, Li J, Chen H, Shi J, Ren J, Li N, Chen W. Cancer screening in China: The current status, challenges, and suggestions. *Cancer Letters*. 2021;506:120-127.