Seokyung An, PhD

Biotatistician | Epidemiologist

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 Chicago, United States

https://seokyungan.github.io/

Profile

Experienced biostatistician and epidemiologist with a demonstrated history of working in academic research, the National Cancer Center, and currently serving as a Senior Statistical Analyst at Northwestern University. Skilled in biostatistics, data visualization, and clinical research. Strong research professional with a Doctor in Medical Science (PhD) from Seoul National University, specializing in the prediction and prevention of cardiometabolic disease.

Education

03/2016 - 08/2022 **Doctor of Philosophy, Medical Science**

Seoul, South Korea Seoul National University Graduate School, Department of Biomedical Sciences

Bachelor of Statistics 03/2012 - 02/2016

Seoul, South Korea Sungshin Women's University, Department of Statistics

Skills

Statistical analysis **Artificial intelligence modeling**

R, SAS, SPSS, PLINK, Python Machine learning and Deep learning

Collaboration **Data management**

SQL, RedCap Task management and communication

Professional Experience

Senior Statistical Analyst 07/2023 - present

Chicago, US Northwestern University - The Feinberg School of Medicine

Senior Statistician, Bluhm Cardiovascular Institute

Postdoctoral fellow 10/2022 - 06/2023

Ilsan, South Korea National Cancer Center

> Investigated the relationships between environmental and genomic factors in cancer and developed cancer prediction models using artificial intelligence.

03/2016 - 08/2022 Graduate student, full time

Seoul, South Korea Seoul National University Graduate School

Mastered advanced biostatistics and epidemiology and developed metabolic

disease prediction models using artificial intelligence methods.

06/2015 - 08/2015 Intern

Ilsan, Soul Korea National Cancer Center

Investigated the association between colorectal cancer and dietary intake.

06/2014 - 08/2014 Intern

Seoul, South Korea Seoul National University Cancer Research Institute

Investigated hereditary breast cancer and analyzed cohort data from the Korean

Hereditary Breast Cancer Study (KOHBRA).

■ Publications (indicates* first)

09/2023 Comparison of intravascular ultrasound, optical coherence tomography, and

conventional angiography-guided percutaneous coronary interventions: A systematic review, network meta-analysis, and meta-regression

Catheter Cardiovasc Interv

Park DY*, **An S**, Jolly N, Attanasio S, Yadav N, Gutierrez JA, Nanna MG, Rao SV, Vij A.

04/2023 Trends and impact of intravascular ultrasound and optical coherence

tomography on percutaneous coronary intervention for myocardial

infarction 🛮

IJC Heart & Vasculature

Park DY*, Vemmou E, **An S**, Nikolakopoulos Ilias, Regan CJ, Cambi BC, Frampton J,

Vij A, Brilakis E, Nanna MG

02/2023 Factor Xa Inhibitors Versus Vitamin K Antagonist in Morbidly Obese Patients

With Venous Thromboembolism: A Systematic Review and Meta-Analysis 🛭

BMC Cardiovasc Disord. PMID: 36814196 Park DY*, **An S***, Arif AW, Sana MK, Vij A

02/2023 Trends and impact of intravascular ultrasound and optical coherence

tomography on percutaneous coronary intervention for myocardial

infarction г₹

Int J Cardiol Heart Vasc. 2023. PMID: 36852085

Park DY*, Vemmou E*, **An S**, Nikolakopoulos I, Regan CJ, Cambi BC, Frampton J, Vij

A, Brilakis E, Nanna MG

01/2023 Network Meta-Analysis Comparing Angiotensin Receptor-Neprilysin Inhibitors,

Angiotensin Receptor Blockers, and Angiotensin-Converting Enzyme Inhibitors

in Heart Failure With Reduced Ejection Fraction 🛭

Am J Cardiol. 2023. PMID: 36459752

Park DY*, **An S**, Attanasio S, Jolly N, Malhotra S, Doukky R, Samsky MD, Sen S,

Ahmad T, Nanna MG, Vij A

11/2022 Indoor tanning and the risk of overall and early-onset melanoma and

non-melanoma skin cancer: Systematic review and meta-analysis. 🛭

Cancers (Basel). PMID: 34885049

An S*, Kim K, Moon S, Ko KP, Kim I, Lee JE, Park SK.

11/2022 Abbreviated versus Standard Duration of DAPT after PCI: A Systematic Review

and Network Meta-analysis. Am J Cardiovasc Drugs 🛮

Am J Cardiovasc Drugs. PMID: 35781867

Park DY*, **An S***, Kumar A, Malhotra S, Jolly N, Kaur A, Kattoor A, Doukky R, Kalra A,

Vij A

11/2022	Projection of Cancer Incidence and Mortality From 2020 to 2035 in the Korean Population Aged 20 Years and Older ☑ <i>J Prev Med Public Health. PMID: 36475318</i> Hong Y*, Lee S, Moon S, Sung S, Lim W, Kim K, An S , Choi J, Ko KP, Kim I, Lee JE, Park SK
11/2022	Impact of pulmonary embolism on perioperative outcomes of coronary artery bypass graft ☑ Coron Artery Dis. PMID: 35500089 Park DY*, An S*, Attanasio S, Doukky R, Sawaqed R, Vij A
11/2022	In-hospital prognosis of malignancy-related pulmonary embolism: an analysis of the national inpatient sample 2016-2018 ☐ J Thromb Thrombolysis. PMID: 35876942 Park DY*, An S*, Kashoor I, Ezegwu O, Gupta S
11/2022	Impact of cardiac and noncardiac cirrhosis on coronary revascularization outcomes from the National Inpatient Sample, 2016 to 2018 Proc (Bayl Univ Med Cent) Park DY*, An S*, Warraich MS, Aldeen ZS, Maghari I, Khanal S, Arif AW, Almoghrabi A
10/2022	Modified reverse shock index predicts early outcomes of heart failure with reduced ejection fraction □ ESC Heart Fail. PMID: 35775109 Oh GC*, An S*, Lee HY, Cho HJ, Jeon ES, Lee SE, Kim JJ, Kang SM, Hwang KK, Cho MC, Chae SC, Choi DJ, Yoo BS, Kim KH, Park SK, Baek SH
10/2022	Association of metabolic comorbidity with myocardial infarction in individuals with a family history of cardiovascular disease: a prospective cohort study ☐ BMC Public Health. 2022. PMID: 36316766 An S*, Moon S, Park SK
10/2022	Readmission rates and risk factors for readmission after transcatheter aortic valve replacement in patients with end-stage renal disease ② PLoS One. 2022. PMID: 36264931 Park DY*, An S*, Hanna JM, Wang SY, Cruz-Solbes AS, Kochar A, Lowenstern AM, Forrest JK, Ahmad Y, Cleman M, Damluji AA, Nanna MG
10/2022	Incidence and risk factors of atrial fibrillation and atrial arrhythmias in people living with HIV: a systematic review and meta-analysis ☑ J Interv Card Electrophysiol. PMID: 35610524 Park DY*, An S*, Romero ME, Kaur A, Ravi V, Huang HD, Vij A
09/2022	Shortening the duration of dual antiplatelet therapy after percutaneous coronary intervention for acute coronary syndrome: A systematic review and meta-analysis ☑ Am Heart J. PMID: 35654162 Park DY*, Wang P*, An S, Grimshaw AA, Frampton J, Ohman EM, Rao SV, Nanna MG
07/2022	Impact of end-stage renal disease on in-hospital outcomes of hypertensive emergency from the National Inpatient Sample, 2016 to 2018 Proc (Bayl Univ Med Cent) Park DY*, An S*, Rodriguez MA, Odeh R, Hammo H, Haque M, Arif AW

Myocarditis after COVID-19 mRNA vaccination: A systematic review of case 07/2022 reports and case series 🗷 Clin Cardiol. PMID: 35652390 Park DY*, **An S***, Kaur A, Malhotra S, Vij A 06/2022 Systematic Review and Network Meta-Analysis Comparing Bifurcation **Techniques for Percutaneous Coronary Intervention ☑** Journal of the American Heart Association. PMID: 35723005 Park DY*, An S*, Jolly N, Attanasio S, Yadav N, Rao S, Vij A Binary cutpoint and the combined effect of systolic and diastolic pressure on 06/2022 cardiovascular disease mortality: A community-based cohort study 🗹 PLoS One. PMID: 35771898 Lee JY*, Hong JH, Lee S, **An S**, Shin A, Park SK 05/2022 **Comparison of the Prevalence of Cardiometabolic Disorders and Comorbidities** in Korea and United States: Analysis of the National Health and Nutrition **Examination Survey** 🗹 J Korean Med Sci. PMID: 35535376 An S*, Ahn C, Jang J, Lee J, Kang D, Lee JK, Park SK 03/2022 Individualized Biological Age as a Predictor of Disease: Korean Genome and Epidemiology Study (KoGES) Cohort 🖸 J Pers Med. PMID: 35330504 An S*, Ahn C, Moon S, Sim EJ, Park SK 03/2022 Effect of weight loss on recurrence of atrial fibrillation after ablative therapy: a systematic review and meta-analysis 🖸 J Interv Card Electrophysiol. PMID: 35258752 Park DY*, **An S**, Murthi M, Kattoor AJ, Kaur A, Ravi V, Huang HD, Vij A 11/2021 Obesity measures at baseline, their trajectories over time, and the incidence of chronic kidney disease: A 14 year cohort study among Korean adults 🛭 Nutr Metab Cardiovasc Dis. PMID: 33546946 Zhang HS*, **An S**, Ahn C, Park SK, Park B 11/2020 Isoflavone intake on the risk of overall breast cancer and molecular subtypes in women at high risk for hereditary breast cancer Breast Cancer Res Treat. PMID: 33068197 Sim EJ*, Ko KP, Ahn C, Park SM, Surh YJ, **An S**, Kim SW, Lee MH, Lee JW, Lee JE, Kim KS, Yom CK, Kim HA, Park SK 08/2019 Long-term Breastfeeding in the Prevention of Allergic Rhinitis: Allergic Rhinitis Cohort Study for Kids (ARCO-Kids Study) Clin Exp Otorhinolaryngol. PMID: 30992421 Han DH*, Shin JM, An S, Kim JS, Kim DY, Moon S, Kim JS, Cho JS, Kim SW, Kim YH, Roh HJ, Shim WS, Rha KS, Kim SW, Lee SS, Kim DW, Cho KS, Yim HJ, Park SK, Rhee CS



06/2019 Device and method for biometric age prediction model generation

South Korea (Patent Registration No: KR 1020180156873)

06/2019 Apparatus and method for predicting disease risk of metabolic disease

United States (Patent Publication No: US20190172587A1)

Awards

07/2019 Young Investigator Award

The Korean Society of Cancer Prevention

07/2018 Young Investigator Award

The Korean Society of Cancer Prevention

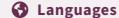
07/2017 Young Investigator Award

The Korean Society of Cancer Prevention



SAS Certified Base Programmer for SAS 9

SAS Global Certification, Certificate Verification No.Y9V19JB12F4Q1T5X



English Korean Fluent Native