

06/20/2023

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Department of Biostatistics,
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EDUCATION

08/2010 Ph.D. in Statistics, University of Wisconsin-Madison, USA
12/2005 M.S. in Statistics, University of Wisconsin-Madison, USA
06/2003 B.S. in Statistics, Korea University, Seoul

TRAINING

08/2010-09/2010, Postdoctoral Researcher, Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Sweden

ACADEMIC APPOINTMENTS

03/2021 – present, Associate Professor, Departments of Biostatistics, Korea University, Seoul, Korea

02/2020 – 02/2021, Associate Professor, Departments of Applied Statistics, Gachon University, Seongnam, Korea

03/2015 – 02/2020, Assistant Professor, Departments of Applied Statistics, Gachon University, Seongnam, Korea

09/2008 – 05/2010, Research Assistant, Department of Biostatistics and Medical Informatics (joint work with Department of Anesthesiology), University of Wisconsin-Madison, WI, USA

09/2005 – 05/2008, Graduate student teaching assistant, Department of Statistics, University of Wisconsin-Madison, WI, USA

01/2004 – 05/2005, Graduate student project assistant, Center for Limnology, University of Wisconsin-Madison, WI, USA

HOSPITAL APPOINTMENTS

11/2010 – 02/2015, Research Specialist, Departments of Clinical Epidemiology and Biostatistics, Asan Medical Center, Seoul

HONORS AND AWARDS

International/National/Regional

2010 Sylvan B. Green Student Paper Award from the Society for Clinical Trials, Baltimore, USA

2010 Student Paper Award from the International Society for Clinical Biostatistics, Montpellier, France

2008 Travel Award from the Midwest Biopharmaceutical Statistics Workshop, Indiana, USA

2001 Scholarship from the Mirae Asset Financial Group

University

2009 Travel Award from the University of Wisconsin Graduate School to attend various conferences

2003 Scholarship from the Korea University

2001 Scholarship from the Korea University

INSTITUTIONAL SERVICE

University

03/2022 – present, Member of the Continuous Quality Improvement Committee, Korea University College of Medicine

09/2018 – 12/2018, Member of the Admissions Office, Gachon University

Department

02/2020 – 02/2021, Chair, Department of Applied Statistics, Gachon University

02/2018 – 02/2021, Department Head Professor for Program of the University for Creative Korea, Gachon University

02/2017 – 02/2021, Professor for Organizing the Conversation with Employed Senior Students, Gachon University

08/2020 Invited Committee Member to Hire a New Faculty in Department of Applied Statistics, Yonsei University

05/2014 – 06/2014, Teaching Instructor, Center for Bionics, Korea Institute of Science and Technology

05/2008 – 06/2008, Teaching Instructor, Department of Statistics, University of Wisconsin-Madison, USA

03/2010 – 02/2011, Student Representative in the Department of Statistics, University of Wisconsin-Madison

Hospital

03/2012 – 02/2015, Member of the Institutional Review Board, ASAN Medical Center, Seoul

COMMUNITY / PUBLIC SERVICE

03/1997 – 09/1999, Military Service in the Korean Air Force

PARTICIPATION IN PROFESSIONAL SOCIETIES AND EXTRAMURAL ORGANIZATIONS

04/2023 – 04/2025, Medical Technology Reevaluation Advisory Group from the National Evidence-based healthcare Collaborating Agency

03/2018 – 04/2023, Research Planning Advisory Committee Member from the National Evidence-based healthcare Collaborating Agency

05/2019 Committee Member for the National Officials Examination

11/2019 Interview Committee Member for hiring Government Employee in the National Tax Service

2012 – 2017, Advisory Committee Member for Clinical Trials from the Medical Device Safety Bureau, Korea Food and Drug Administration, Korea

2012 – 2015, Advisory Statistician from the Consortium for Improving Survival of Lymphoma (CISL), Korea

10/2020 Reviewer for Graduate Student Paper Award about Employment Panel Data Competition, Korea Employment Agency for Persons with Disabilities (KEAD), Korea

PROFESSIONAL SOCIETY MEMBERSHIPS

Member of the American Statistical Association, Korean Statistical Association, Korean Society of Health Information and Health Statistics

LEADERSHIP AND SERVICE

2013 – present, a Board Member of Directors in the Korean Society of Health Information and Health Statistics, Korea.

GRANT

06/2022 – 02/2025 Performance measure of calibration and goodness of fit in the competing risks survival model, Role: Principal Investigator, Grant from National Research Foundation funded by the Ministry of Science and ICT, Korea (\$165000) (2022R1F1A1063027).

04/2022 – 12/2024 Development of statistical method for real world data application using the multistate survival model, Role: Principal Investigator, Grant from Korea Health Industry Development Institute, Korea (\$72000) (HI22C045400)

07/2021 – 12/2023 Prediction model development and validation using serum hepatitis B virus DNA for chronic hepatitis B patients, Role: Co-Principal Investigator, Grant from National Cancer Center, Korea (\$67000) (HA21C011002)

07/2021 – 06/2022 Prediction model development and validation using deep neural network model, Role: Principal Investigator, Grant from Korea University, Korea (\$26000) (Korea University Grant-K2117421)

03/2021 – 02/2024 Multiple imputation method for missing failure causes in the competing risks survival data analysis, Role: Principal Investigator, Grant from Korea University, Korea (\$18000) (Korea University Grant-K2110551)

03/2017 – 02/2020 Prediction model building and serial testing for doubly censored data, Role: Principal Investigator, Grant from National Research Foundation funded by the Ministry of Science, ICT and Future Planning, Korea (\$135000) (NRF-2017R1C1B1006717).

EDITORIAL AND MANUSCRIPT REVIEW RESPONSIBILITIES

2018 – 2021	Editorial Committee Member from the <i>Statistical Newsletter</i>
2017 – present	Reviewer for the <i>Journal of the Korean Statistical Society</i>
2015 – present	Statistical reviewer for the <i>Journal of Health Informatics and Statistics</i>
2015 – present	Statistical reviewer for the <i>Journal of Korean Applied Statistics</i>
2015 – present	Statistical reviewer for the <i>Journal of Communications for Statistical Applications and Methods</i>
2023 – present	Statistical reviewer for the <i>Journal of Clinical Neurology</i>

PUBLICATIONS

161. Comprehensive Prediction of Subclinical Coronary Atherosclerosis in Subjects Without Traditional Cardiovascular Risk Factors. Park S, Jeon YJ, Ann SH, Kim YG, Lee Y, Choi SH, ***Han S**, *Park GM. **Am J Cardiol**. 2023 Jul 1;198:64-71. doi: 10.1016/j.amjcard.2023.04.011. [SCIE, IF=3.133] * co-corresponding authors (NRF-2022R1F1A1063027) ISSN: 0002-9149

160. Prediction of the 10-year risk of atherosclerotic cardiovascular disease in the Korean population. Park S, Kim YG, Ann SH, Cho YR, Kim SJ, ***Han S**, *Park GM. **Epidemiol Health**. 2023 May 12:e2023052. doi: 10.4178/epih.e2023052. [SCIE, IF=5.919] * co-corresponding authors, ISSN: 2092-7193

159. Evidence-Based Optimal Medical Therapy and Mortality in Patients With Acute Myocardial Infarction After Percutaneous Coronary Intervention.

*Lee K, ***Han S**, Lee M, Kim DW, Kwon J, Park GM, Park MW.

J Am Heart Assoc. 2023 May 16;12(10):e024370. doi: 10.1161/JAHA.121.024370. [SCIE, IF=6.107]

* joint first authors (NRF-2022R1F1A1063027, KHTRD-HI22C045400) ISSN: 2047-9980

158. ROC analysis using covariate balancing propensity scores with an application to biochemical predictors for thyroid cancer.

Seungbong Han, Adin-Cristian Andrei, Kam-Wah Tsui, Sung-Cheol Yun and Jong Ho Yoon.

Communications in Statistics – Simulation and computation (2022), 51:2, 374-390, DOI:

10.1080/03610918.2019.1652317, Taylor & Francis [SCIE, IF=0.651] (Basic Science Research

Program of the NRF of Korea: 2017R1C1B1006717) ISSN: 0361-0918

157. Testosterone is associated with abdominal body composition derived from computed tomography: a large cross-sectional study. **Han S**, Jeon YJ, Lee TY, Park GM, Park S, Kim SC.

Scientific Reports [SCIE, IF= 4.996] 2022 Dec 29;12(1):22528. doi: 10.1038/s41598-022-27182-y.

(Korea University Grant K2117421) ISSN: 2045-2322

156. Ranking of transarterial and targeted therapies for advanced hepatocellular carcinoma in the era of immuno-oncology: A network meta-analysis of randomized sorafenib-controlled trials.

An J, ***Han S**, Kim HI, ***Shim JH**. **Hepatology Communications**. [SCIE, IF= 5.073], 2022 Oct;

6(10):2886-2900. doi: 10.1002/hep4.2025. ISSN: 2471-254X * co-corresponding authors

155. Impact of HBsAg seroclearance on late recurrence of hepatitis B virus-related hepatocellular carcinoma after surgical resection.

Yoo S, Kim JY, Lim YS, **Han S**, Choi J. **Journal of Hepatology** [SCIE, IF= 17.42], 2022 Oct;

77(4):939-946. doi: 10.1016/j.jhep.2022.05.014 ISSN: 0168-8278

154. Plasma Proteomic Signature of Cellular Senescence and Markers of Biological Aging Among Postmenopausal Women.

Shin JW, Lee E, **Han S**, Choe SA, Jeon OH. **Rejuvenation Research** [SCIE, IF= 4.663], 2022 Jun;

25(3):141-148. doi: 10.1089/rej.2022.0024 ISSN: 1549-1684

153. Comparison of Vision-related Quality of Life Between Normal Tension Glaucoma and Primary Open-angle Glaucoma.
Chun YS, Sung KR, Park CK, Kim HK, Yoo C, Kim YY, Park KH, Kim CY, Choi KR, Lee KW, **Han S**, Kim CS. **Journal of Glaucoma** [SCIE, IF= 2.503], 2022 May 1;31(5):322-328. doi: 10.1097/IJG.0000000000002007. Epub 2022 Mar 1. PMID: 35476645, ISSN: 1057-0829
152. Identification of hepatic steatosis in living liver donors by machine learning models.
Lim J*, **Han S***, Lee D, Shim JH, Kim KM, Lim YS, Lee HC, Jung DH, Lee SG, Kim KH, Choi J. **Hepatology Communications** [SCIE, IF= 5.073], 2022 Jul; 6(7):1689-1698. doi: 10.1002/hep4.1921. * joint first authors, ISSN: 2471-254X
151. Increasing on-treatment hepatocellular carcinoma risk with decreasing baseline viral load in HBeAg-positive chronic hepatitis B.
Choi WM, Kim GA, Choi J, **Han S**, Lim YS. **Journal of Clinical Investigation**. [SCIE, IF=14.81], 2022 May 16;132(10):e154833. doi: 10.1172/JCI154833. ISSN: 0021-9738
150. A risk scoring system to predict clinical events in chronic hepatitis B virus infection: A nationwide cohort study. Jo AJ, Choi WM, Kim HJ, Choi SH, **Han S**, Ko MJ, Lim YS. **Journal of Viral Hepatitis** [SCIE, IF=3.728] 2022 Feb;29(2):115-123. doi: 10.1111/jvh.13631. ISSN: 1365-2893
149. Ticagrelor versus prasugrel in patients with acute myocardial infarction.
Park S, Kim YG, Ann SH, Park HW, Suh J, Roh JH, Cho YR, ***Han S**, ***Park GM**. **INTERNATIONAL JOURNAL OF CARDIOLOGY**. 2021 Dec, 344:25-30. doi: 10.1016/j.ijcard.2021.09.063, * co-corresponding authors, [SCIE, IF=4.164] (Korea University grant K2117421) ISSN: 0167-5273
148. Multiple imputation analysis for propensity score matching with missing causes of failure: an application to hepatocellular carcinoma data.
Seungbong Han, Kam-Wah Tsui, Hui Zhang, Gi-Ae Kim, Young-Suk Lim and Adin-Cristian Andrei. **Statistical Methods in Medical Research** (2021, Sep), 2021 Oct;30(10):2313-2328. doi: 10.1177/09622802211037075, Taylor & Francis [SCI, IF=2.97] (Korea University Grant-K2110551) ISSN: 0962-2802
147. Association of aspirin and statin use with the risk of liver cancer in chronic hepatitis B: A nationwide population-based study. Choi WM, Kim HJ, Jo AJ, Choi SH, **Han S**, Ko MJ, Lim YS. **LIVER INTERNATIONAL**, 2021 Nov;41(11):2777-2785. doi: 10.1111/liv.15011. [SCIE, IF=5.828] ISSN: 1478-3223
146. Differences in Abdominal Body Composition according to Glycemic Status: An Inverse Probability Treatment Weighting Analysis.
Seungbong Han, Young-Jee Jeon, Gyung-Min Park, Tae Young Lee, Byung Ju Kang **Endocrinology and Metabolism**, 2021 Aug;36(4):855-864. doi: 10.3803/EnM.2021.1086., [SCIE, IF=5.605] ISSN: 2093-5978

145. Pre-existing depression in patients with coronary artery disease undergoing percutaneous coronary intervention.
Park J, Park S, Kim YG, Ann SH, Park HW, Suh J, Roh JH, Cho YR, ***Han S**, *Park GM. **Scientific Reports**, 2021 Apr 21;11(1):8600. doi: 10.1038/s41598-021-87907-3., [SCIE, IF= 4.996] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 2045-2322
144. Comparison of new implantation of cardiac implantable electronic device between tertiary and non-tertiary hospitals: a Korean nationwide study.
Han S, Park GM, Kim YG, Hwang KW, Kwon CH, Roh JH, Park S, Won KB, Ann SH, Kim SJ, Lee SG. **Scientific Reports**. 2021 Mar 15;11(1):3705. doi: 10.1038/s41598-021-83160-w., [SCIE. IF= 4.996] (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 2045-2322
143. Risk of hepatocellular carcinoma with tenofovir versus entecavir in chronic hepatitis B.
Choi WM, Choi J, Wong GL, **Han S**, Lim YS. **Lancet Gastroenterol Hepatol**. 2021 Feb;6(2):87. doi: 10.1016/S2468-1253(20)30372-1. [SCIE, IF= 45.042] ISSN: 2468-1253
142. Beta-blockers provide a differential survival benefit in patients with coronary artery disease undergoing contemporary post-percutaneous coronary intervention management.
Lee PH, *Park GM, ***Han S**, Kim YG, Lee JY, Roh JH, Lee JH, Kim YH, Lee SW. **Scientific Reports**, 2020 Dec 17;10(1):22121. doi: 10.1038/s41598-020-79214-0. [SCIE, IF= 4.996] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 2045-2322
141. Angiotensin Converting Enzyme Inhibitor versus Angiotensin Receptor Blocker Based Optimal Medical Therapy after Percutaneous Coronary Intervention: A Nationwide Cohort Study.
Sangwoo P, Yong-Giun K, Soe Hee A, Hyun Woo P, Jon S, Jae-Hyung R, Young-Rak C, ***Seungbong H**, *Gyung-Min P. **Journal of Cardiovascular Pharmacology**, 2021 Jan 1;77(1):61-68, doi: 10.1097/FJC.0000000000000930. [SCIE, IF=2.84] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 0160-2446
140. A simple and clinically applicable model to predict liver-related morbidity after hepatic resection for hepatocellular carcinoma.
Choi J, Kim SH, **Han S**, Lee D, Shim JH, Lim YS, Lee HC, Chung YH, Lee YS, Lee SG, Kim KH, Kim KM. **PLoS One**. 2020 Nov 5;15(11):e0241808. doi: 10.1371/journal.pone.0241808. [SCIE, IF=3.752] ISSN: 1932-6203
139. Sex-related impacts on clinical outcomes after percutaneous coronary intervention.
Park HW, **Han S**, Park GM, Ann SH, Suh J, Kim YG, Lee SW, Kim YH., **Scientific Reports**. 2020 Sep 17;10(1):15262. doi: 10.1038/s41598-020-72296-w. [SCIE, IF= 4.996] ISSN: 2045-2322

138. Moderate levels of serum hepatitis B virus DNA are associated with the highest risk of hepatocellular carcinoma in chronic hepatitis B patients. Kim GA, **Han S**, Choi GH, Choi J, Lim YS. **Alimentary Pharmacology and Therapeutics**. 2020 Jun;51(11):1169-1179. doi: 10.1111/apt.15725. [SCIE, IF=7.731] ISSN: 0269-2813

137. Earlier Alanine Aminotransferase Normalization During Antiviral Treatment Is Independently Associated With Lower Risk of Hepatocellular Carcinoma in Chronic Hepatitis B. Choi J, Kim GA, **Han S**, Lim YS. **American journal of gastroenterology**. 2020 Mar;115(3):406-414. [SCIE, IF=12.04] ISSN: 0002-9270

136. Ca²⁺-permeable TRPV1 pain receptor knockout rescues memory deficits and reduces amyloid- β and tau in a mouse model of Alzheimer's disease. Kim J, Lee S, Kim J, Ham S, Park JHY, **Han S**, Jung YK, Shim I, Han JS, Lee KW, Kim J. **Human Molecular Genetics**. 2020 Jan 15;29(2):228-237. [SCIE, IF=6.15] ISSN: 0964-6906

135. Comparison between angiotensin-converting enzyme inhibitor and angiotensin receptor blocker after percutaneous coronary intervention. Ann SH, Strauss MH, *Park GM, ***Han S**, Yang Y, Kim YG, Won KB, Kim SJ, Lee SG, Cho YR, Kim DW, Park MW, Her SH, Lee SW. **International journal of cardiology**, 2020 May 1;306:35-41, DOI: 10.1016/j.ijcard.2019.11.086, [SCIE, IF=4.164] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 0167-5273

134. A Prospective Evaluation of the Reliability and Utility of Quality of Life Measures in Patients With Hepatocellular Carcinoma. Kim GA, Kim HI, Chang S, An J, Lee D, Lee HC, ***Han S**, *Shim JH. **American Journal of Clinical Oncology**. 2019 Jul;42(7):555-563. doi: 10.1097/COC.0000000000000555.[SCIE, IF=2.339] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 0277-3732

133. High risk of clinical events in untreated HBeAg-negative chronic hepatitis B patients with high viral load and no significant ALT elevation. Choi GH, Kim GA, Choi J, **Han S**, Lim YS. **Alimentary Pharmacology and Therapeutics**. 2019 Jul;50(2):215-226. doi: 10.1111/apt.15311.[SCIE, IF=7.731] ISSN: 0269-2813

132. Randomized Trial Evaluating Percutaneous Coronary Intervention for the Treatment of Chronic Total Occlusion. Lee SW, Lee PH, Ahn JM, Park DW, Yun SC, **Han S**, Kang H, Kang SJ, Kim YH, Lee CW, Park SW, Hur SH, Rha SW, Her SH, Choi SW, Lee BK, Lee NH, Lee JY, Cheong SS, Kim MH, Ahn YK, Lim SW, Lee SG, Hiremath S, Santoso T, Udayachalerm W, Cheng JJ, Cohen DJ, Muramatsu T, Tsuchikane E, Asakura Y, Park SJ.

Circulation. 2019 Apr 2;139(14):1674-1683. doi: 10.1161/CIRCULATIONAHA.118.031313.[SCIE, IF=39.92] ISSN: 0009-7322

131. Vision-related quality of life according to location of visual field loss in patients with glaucoma. Chun YS, Sung KR, Park CK, Kim HK, Yoo C, Kim YY, Park KH, Kim CY, Choi KR, Lee KW, **Han S**, Kim CS; LIGHT (Life Quality of Glaucoma Patients Who Underwent Treatment) study of the Korean Glaucoma Society.

Acta Ophthalmologica. 2019 Aug;97(5):e772-e779. doi: 10.1111/aos.14020. [SCIE, IF=3.761] ISSN: 1755-375X

130. Moderate-intensity versus high-intensity statin therapy in Korean patients with angina undergoing percutaneous coronary intervention with drug-eluting stents: A propensity-score matching analysis.

Park MW, Park GM*, **Han S***, Yang Y, Kim YG, Roh JH, Park HW, Suh J, Cho YR, Won KB, Ann SH, Kim SJ, Kim DW, Her SH, Lee SG.

PLoS One. 2018 Dec 7;13(12):e0207889. doi: 10.1371/journal.pone.0207889. eCollection 2018.[SCIE, IF=3.752] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 1932-6203

129. Multiple imputation for competing risks survival data via pseudo-observations.

Seungbong Han, Adin-Cristian Andrei and Kam-Wah Tsui,

Communications for Statistical Applications and Methods (2018, July), 25(4), 385-396. DOI: 10.29220/CSAM.2018.25.4.385 [SCOPUS, IF=0.57] (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 2287-7843

128. Impact of diabetes mellitus in patients undergoing contemporary percutaneous coronary intervention: Results from a Korean nationwide study.

Yang Y, Park GM*, **Han S***, Kim YG, Suh J, Park HW, Won KB, Ann SH, Kim SJ, Kim DW, Park MW, Her SH, Lee SG.

PLoS One. 2018 Dec 10;13(12):e0208746. doi: 10.1371/journal.pone.0208746. eCollection 2018.[SCIE, IF=3.752] * co-corresponding authors. (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 1932-6203

127. Effect of atrial fibrillation in Asian patients undergoing percutaneous coronary intervention with drug-eluting stents for stable coronary artery disease: Results from a Korean nationwide study.

Han S, Park GM, Kim YG, Hwang KW, Roh JH, Won KB, Ann SH, Kim SJ, Lee SG.

Medicine (Baltimore). 2018 Nov;97(48):e13488. doi: 10.1097/MD.00000000000013488.[SCI, IF=1.889] (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 0025-7974

126. Factors influencing vision-related quality of life according to glaucoma severity.

Chun YS, Sung KR, Park CK, Kim HK, Yoo C, Kim YY, Park KH, Kim CY, Choi KR, Lee KW, **Han S**, Kim CS; LIGHT (Life Quality of Glaucoma Patients Who Underwent Treatment) study of the Korean

Glaucoma Society.

Acta Ophthalmologica. 2019 Mar;97(2):e216-e224. doi: 10.1111/aos.13918. [SCI] ISSN: 1755-375X

125. Longitudinal Assessment of Three Serum Biomarkers to Detect Very Early Stage Hepatocellular Carcinoma.

Choi J, Kim GA, **Han S**, Lee W, Chun S, Lim YS.

Hepatology. 2019 May;69(5):1983-1994. doi: 10.1002/hep.30233.[SCI] ISSN: 1527-3350

124. Fate of Grafts Bypassing Nonischemic Versus Ischemic Inducing Coronary Stenosis.

Roh JH, Kim YH, Yang DH, **Han S**, Yun SC, Yang DH, Park GM, Lee PH, Ahn JM, Kang JW, Lim TH, Moon DH, Kim JB, Jung SH, Chung CH, Choo SJ, Lee JW, Kang SJ, Park DW, Lee SW, Lee CW, Park SW, Park SJ.

American Journal of Cardiology. 2018 Oct 1;122(7):1148-1154. doi:

10.1016/j.amjcard.2018.06.028. [SCI] ISSN: 0002-9149

123. Metabolic Syndrome and the Risk of New-Onset Atrial Fibrillation in Middle-Aged East Asian Men.

Kim YG, Choi KJ, **Han S**, Hwang KW, Kwon CH, Park GM, Won KB, Ann SH, Kim J, Kim SJ, Lee SG, Nam GB, Kim YH.

Circulation Journal, 2018 Jun 25;82(7):1763-1769. doi: 10.1253/circj.CJ-18-0113.[SCI] ISSN: 1347-4820

122. Long-Term Changes in Anterior Segment Characteristics of Eyes with Different Primary Angle-Closure Mechanisms.

Kwon J, Sung KR, **Han S**.

American Journal of Ophthalmology. 2018 Jul;191:54-63. doi: 10.1016/j.ajo.2018.04.005.[SCI]

ISSN: 0002-9394

121. Trends, Characteristics, and Clinical Outcomes of Patients Undergoing Percutaneous Coronary Intervention in Korea between 2011 and 2015.

Han S, Park GM, Kim YG, Park MW, Her SH, Lee SW, Kim YH.

Korean Circulation Journal. 2018 Apr;48(4):310-321. doi: 10.4070/kcj.2017.0359.[SCIE] (Basic Science Research Program of the NRF of Korea : 2017R1C1B1006717) ISSN: 1738-5555

120. Chronic hepatitis B infection and non-hepatocellular cancers: A hospital registry-based, case-control study.

An J, Kim JW, Shim JH, **Han S**, Yu CS, Choe J, Lee D, Kim KM, Lim YS, Chung YH, Lee YS, Suh DJ, Kim JH, Lee HC.

PLoS One. 2018 Mar 15;13(3):e0193232. doi: 10.1371/journal.pone.0193232. eCollection 2018.[SCIE]) ISSN: 1932-6203

119. Incremental Value of Subtended Myocardial Mass for Identifying FFR-Verified Ischemia Using Quantitative CT Angiography: Comparison With Quantitative Coronary Angiography and CT-FFR.

Yang DH, Kang SJ, Koo HJ, Kweon J, Kang JW, Lim TH, Jung J, Kim N, Lee JG, **Han S**, Ahn JM, Park DW, Lee SW, Lee CW, Park SW, Park SJ, Mintz GS, Kim YH.

JACC Cardiovasc Imaging. 2019 Apr;12(4):707-717. doi: 10.1016/j.jcmg.2017.10.027.[SCI] ISSN: 1936-878X

118. Risk Prediction Model for Disease-Free Survival in Women with Early-Stage Cervical Cancers following Postoperative (Chemo)Radiotherapy.

Je HU*, **Han S***, Kim YS, Nam JH, Park W, Song S, Song C, Kim JH, Kim J, Yoon WS, Yoon MS, Choi JH, Kim JY.

Tumori Journal. 2018 Mar-Apr;104(2):105-110. doi: 10.5301/tj.5000697. [SCIE, IF=0.453] * joint first authors ISSN: 0300-8916

117. Impact of Significant Mitral Regurgitation on Assessing the Severity of Aortic Stenosis.

Lee PH, Hong JA, Sun BJ, **Han S**, Park S, Jang JY, Kim DH, Kang DH, Song JK, Song JM.

Journal of the American Society of Echocardiography. 2018 Jan;31(1):26-33. doi: 10.1016/j.echo.2017.09.012.[SCI] ISSN: 0894-7317

116. Efficacy and Safety of Fully Covered Self-Expanding Metal Stents for Malignant Esophageal Obstruction.

So H, Ahn JY, **Han S**, Jung K, Na HK, Lee JH, Jeong KW, Kim DH, Choi KD, Song HJ, Lee GH, Jung HY.

Digestive Diseases and Sciences. 2018 Jan;63(1):234-241. doi: 10.1007/s10620-017-4839-9. [SCI] ISSN: 0163-2116

115. Long-term outcomes of bypass grafting versus drug-eluting stenting for left main coronary artery disease: Results from the IRIS-MAIN registry.

Lee PH, Lee JY, Lee CW, **Han S**, Ahn JM, Park DW, Kang SJ, Lee SW, Kim YH, Park SW, Park SJ.

American heart journal. 2017 Nov;193:76-83. doi: 10.1016/j.ahj.2017.08.003. [SCI] ISSN: 0002-8703

114. High risk of hepatocellular carcinoma and death in patients with immune-tolerant-phase chronic hepatitis B.

Kim GA, Lim YS, **Han S**, Choi J, Shim JH, Kim KM, Lee HC, Lee YS.

Gut. 2018 May;67(5):945-952. doi: 10.1136/gutjnl-2017-314904. [SCI] ISSN: 0017-5749

113. Impact of coronary lumen reconstruction on the estimation of endothelial shear stress: in vivo comparison of three-dimensional quantitative coronary angiography and three-dimensional fusion combining optical coherent tomography.

Kweon J, Kang SJ, Kim YH, Lee JG, **Han S**, Ha H, Yang DH, Kang JW, Lim TH, Kwon O, Ahn JM, Lee PH, Park DW, Lee SW, Lee CW, Park SW, Park SJ.

European Heart Journal – Cardiovascular Imaging. 2018 Oct 1;19(10):1134-1141. doi: 10.1093/ehjci/jex222. [SCI] ISSN: 2047-2404

112. Efficacy of Precut Endoscopic Mucosal Resection for Treatment of Rectal Neuroendocrine Tumors.

So H, Yoo SH, **Han S**, Kim GU, Seo M, Hwang SW, Yang DH, Byeon JS.

Clinical Endoscopy. 2017 Nov;50(6):585-591. doi: 10.5946/ce.2017.039. [KCI] ISSN: 2234-2400

111. Sarcopenia Predicts Prognosis in Patients with Newly Diagnosed Hepatocellular Carcinoma, Independent of Tumor Stage and Liver Function.

Ha Y, Kim D, **Han S**, Chon YE, Lee YB, Kim MN, Lee JH, Park H, Rim KS, Hwang SG.

Cancer Research and Treatment. 2018 Jul;50(3):843-851. doi: 10.4143/crt.2017.232. [SCIE] ISSN: 1598-2998

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1. Landscape planning for agricultural nonpoint source pollution reduction III: assessing phosphorus and sediment reduction potential.

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INVITED TALKS AND PRESENTATIONS

Selected Invited Talks

01/2022 EPI WINTER Symposium, Pusan, "Statistical methods for recurrent event analysis in cohort"

08/2021 Korea University Ansan Hospital, Ansan, "Medical image data analysis in deep-learning algorithm of convolutional neural network"

07/2021 Korea University College of Medicine, Seoul, "Multiple imputation analysis for propensity score matching with missing causes of failure: an application to hepatocellular carcinoma data"

07/2021 Korea University Ansan Hospital, Ansan, "Survival data analysis using SPSS"

06/2021 The Korean Society of Health Informatics and Statistics, Seoul, "Predictions with accelerated failure time model"

11/2020 Biostatistics & Statistics, Joint Seminar Series, Department of Preventive Medicine, Northwestern University, Chicago, "Propensity Score Matching with Missing Causes of Failure: a Monte Carlo Study"

07/2015 The Asian Regional Section of the International Association for Statistical Computing, Tsukuba, Japan, "Multiple Imputation for Competing Risks Survival Data via Pseudo-observations"

Selected Presentations

08/2019 Joint Statistical Meeting, Denver, USA, "Propensity Score Matching with Missing Causes of Failure: a Monte Carlo Study"

05/2019 Korean Statistical Association Meeting, "Propensity score matching with missing cause of failure: a Monte Carlo Study"

05/2018 Korean Statistical Association Meeting, "ROC analysis using covariate balancing propensity scores with an application to biochemical predictors for thyroid cancer"

08/2016 Joint Statistical Meeting, Vancouver, Canada, "Covariate Adjusted ROC analysis using Covariate Balancing Propensity Score"

11/2016 Korean Statistical Association Meeting, "ROC analysis using covariate balancing propensity scores with an application to biochemical predictors for thyroid cancer"

11/2015 Korean Statistical Association Meeting, "Covariate Adjusted Sensitivity and Specificity using Covariate Balancing Propensity Score"

06/2014 IMS-APRM Conference, Taiwan, "Model evaluation based on the negative predictive value for interval-censored survival outcomes"

11/2013 Korean Statistical Association Meeting, "Model evaluation based on the negative predictive value for interval-censored survival outcomes"

10/2013 The Korean Data Analysis Society, "Efficient Stratified Testing Procedure for a False Discovery Rate"

06/2012 IMS-APRM Conference, Tsukuba, Japan, "A Semiparametric Regression Method for Interval-Censored Data."

11/2011 Korean Statistical Association Meeting, "A Novel Pseudo-Observations-based Modeling Approach for Interval-Censored Data"

INVITED LECTURES

- 10/2022 The Korean Stroke Society, "Application of Multi-state Model"
- 09/2022 The Korean Stroke Society, "Introduction to Multi-state Model"
- 07/2022 The Korean Stroke Society, "Recurrent Event Data Analysis"
- 06/2022 The Korean Society of Epidemiology, "Propensity Score Analysis"
- 04/2022 The Korean Society of Health Informatics and Statistics, "Propensity Score Analysis"
- 02/2022 Ulsan University Hospital, Ulsan, "Advanced Statistical programming in R"
- 01/2022 Ulsan University Hospital, Ulsan, "Basic Statistical programming in R"
- 01/2020 Seoul National University, Department of Preventive Medicine, "Analysis of Binary Outcome Data using SAS"
- 01/2020 Seoul National University, Department of Preventive Medicine, "Analysis of Survival Data using SAS"
- 12/2019 Joint Meeting of Cardiovascular Intervention and Revascularization, Pusan, "Useful R functions for big data analyses"
- 12/2019 Seoul National University, Department of Preventive Medicine, "Regression Analysis using SAS"
- 12/2018 Sungkyunkwan University, School of Medicine, "Analysis of Survival Data"
- 12/2018 Yonsei University, Department of Applied Statistics, "Analysis of Competing Risks Survival Data"
- 11/2018 Sungkyunkwan University, School of Medicine, "Analysis of Repeated Measured Data"
- 11/2018 Asan Medical Center, "Advanced Survival Data Analysis"
- 08/2018 Ulsan University Hospital, "Analysis of the Medical Big Data from Health Insurance Review and Assessment Service"
- 12/2017 The Korean Society of Health Informatics and Statistics, "Introduction to the Mixed Effect Model"
- 11/2017 Korea University, College of Medicine, "Survival Data Analysis using R"

10/2017 Asan Medical Center, "Advanced Survival Data Analysis"

06/2017 Gachon University, Gill Hospital, "Statistical Methods for Clinical Research"

04/2017 The Korean Society of Health Informatics and Statistics, "Analysis of Competing Risks Survival Data"

12/2016 Asan Medical Center, "Development of Clinical Prediction Model"

11/2016 The Korean Society of Health Informatics and Statistics, "Intermediate Survival Data Analysis"

08/2016 Korean Neurological Association, "Recurrent Event Data Analysis"

04/2016 The Korean Radiological Technologists Association, "Introduction to Biostatistics"

04/2016 The Korean Society of Health Informatics and Statistics, "Generalized Linear Model"

11/2015 Korea University, College of Medicine, "Survival Data Analysis using SPSS"

10/2015 The Korean Society of Health Informatics and Statistics, "Introduction to Survival Data Analysis"

10/2015 Korea Food and Drug Administration, Division of Medical Device, "Understanding of Biostatistics"

06/2015 Seoul National University Hospital, Department of Surgery, "Time Dependent Cox Model"

04/2015 The Korean Radiological Technologists Association, "Introduction to Biostatistics"

02/2015 Kyungpook National University School of Medicine, Department of Surgery, "Principals to write for Clinical Research Protocols"

02/2015 Seoul National University Hospital, Department of Surgery, "Repeated Measured Data Analysis"

12/2014 Newspaper for Young Doctors, "Causal Inference"

11/2014 University of Ulsan Medical College, Graduate Program for Biostatistics, "Analysis for Survival Data"

11/2014 The Korean Society for Bone and Mineral Research, "Causal Inference"

11/2014 Korea Food and Drug Administration, Division of Medical Device, "Statistical Inference for Medical Data"

11/2014 Asan Medical Center, "Competing Risks Survival Data Analysis"

11/2014 Korean Academy of Social and Management Care Pharmacy, "Introduction to Survival Data Analysis"

11/2014 Asan Medical Center, "Intermediate Survival Data Analysis"

10/2014 The Korean Society of Osteoporosis, "Statistical Methods for Clinical Research"

06/2014 Soongsil University, Department of Statistics and Actuarial Science, "Propensity Score Matching Method"

06/2014 Korea Food and Drug Administration, "Introduction to Survival Data Analysis"

05/2014 The Korean Radiological Technologists Association, "Introduction to Biostatistics"

05/2014 Asan Medical Center, "Introduction to Survival Data Analysis"

04/2014 Korea Food and Drug Administration, "Statistical Principals for Medical Research"

01/2014 Inje University Haeundae Paik Hospital, "Evaluation for Diagnostic Tests"

11/2013 Asan Medical Center, "Introduction to Survival Data Analysis"

11/2013 University of Ulsan Medical College, Graduate Program for Biostatistics, "Analysis for Repeated Measured Data"

11/2013 University of Ulsan Medical College, Graduate Program for Biostatistics, "Analysis for Repeated Measured Data"

10/2013 Soongsil University, Department of Statistics and Actuarial Science, "Role of Biostatistician"

10/2013 Seoul National University Hospital, "Introduction to Competing Risks Survival Data"

10/2013 Korean Association for the Study of the Liver, "Introduction to Propensity Score Matching Method"

09/2013 Asan Medical Center, "Propensity Score Matching Method"

09/2013 Asan Medical Center, "Introduction to Multistate Model"

08/2013 Jeonbuk National University Hospital, Center for Clinical Research, "Statistical Method for Diagnostics of the Medical Device"

08/2013 Korea University Medical Center, "Statistical Principals for Clinical Research"

07/2013 Asan Medical Center, Department of Gastroenterology "Data Analysis for Continuous Outcome"

05/2013 Asan Medical Center, "Introduction to Data Analysis using SPSS"

- 05/2013 Kangwon National University, Department of Information Statistics, "Introduction to Survival Data Analysis"
- 05/2013 Kangwon National University Hospital, "Introduction to Survival Data Analysis using SPSS"
- 05/2013 The Korean Radiological Technologists Association, "Introduction to Biostatistics"
- 04/2013 Asan Medical Center, "Introduction to Landmark Analysis"
- 03/2013 Asan Medical Center, Department of Pediatrics "Introduction to the Clinical Study"
- 01/2013 Asan Medical Center, Department of Cardiology "Prediction Model for Clinical Data"
- 12/2012 Asan Medical Center, Department of Biostatistics "Concept and Application of Multistate Model"
- 12/2012 Asan Medical Center, Department of Biostatistics "Adaptive Sample Size Adjustment"
- 12/2012 Asan Medical Center, "Prediction Model for Clinical Data"
- 12/2012 Asan Medical Center, "Intermediate Survival Data Analysis"
- 11/2012 University of Ulsan Medical College, Graduate Program for Biostatistics, "Introduction to Survival Data Analysis"
- 07/2012 Asan Medical Center, "How to analyze the competing risks survival data?"
- 06/2012 Asan Medical Center, "Statistical Issues When Analyzing a Clinical Trial"
- 06/2012 Asan Medical Center, "Introduction to Survival Data Analysis"
- 05/2012 The Korean Radiological Technologists Association, "Introduction to Biostatistics"
- 10/2011 Asan Medical Center, "Sensitivity, Specificity and Predictive values"

BOOKS AND BOOK CHAPTERS

2020 R Computing, Youngjae Chang, Sangbum Choi, Seungbong Han, KNOU PRESS, ISSN: 9788920035142

PROGRAMMING SKILLS

SAS, R, SAS SQL, Python, C++, SPSS

GRADUATE LEVEL TEACHING

* I developed and taught all of the graduate level courses.

Spring 2022, Spring 2023 Semesters
Instructor for Mathematical Statistics I
Korea University.

Fall 2021, Fall 2022 Semesters
Instructor for Mathematical Statistics II
Korea University.

Fall 2022 Semester
Instructor for Categorical Data Analysis
Korea University.

Fall 2019 Semester
Instructor for Longitudinal Data Analysis
Gachon University.

Spring 2019 Semester
Instructor for Survival Analysis
Gachon University.

Fall 2018, Fall 2020 Semesters
Instructor for Advanced Multivariate Data Analysis
Gachon University.

Spring 2018 Semester
Instructor for Statistical Computing
Gachon University.

Fall 2017 Semester
Instructor for Data Mining
Gachon University.

Fall 2016 Semester
Instructor for Generalized linear models

Gachon University.

Spring 2013, Spring 2021, Spring 2022, Spring 2023, Semesters
Instructor for Survival Analysis
Korea University

TRAINEES

PhD thesis supervising

2023 – present, Jooyi Jung, MS program in Biostatistics, Korea University

MS thesis supervising

2023 – present, Namyong Baek, MS program in Biostatistics, Korea University

2023 – present, Jooyoung Jung, MS program in Biostatistics, Korea University

2022 – present, Eunbi Kim, MS program in Biostatistics, Korea University

2022 – present, Youngchan Sung, MS program in Biostatistics, Korea University

2022 – present, Yeeun Lee, MS program in Biostatistics, Korea University

2022 – present, Minjin Kim, MS program in Biostatistics, Korea University

2021 – 2023, Hyunjin Song, MS program in Biostatistics, Korea University

2021 – 2023, Jooyi Jung, MS program in Biostatistics, Korea University

2020 – 2021 Sungjun Kim, MS program in Statistics, Gachon University