

Sun Jae Jung M.D., Ph.D., M.Sc.

Curriculum Vitae

Department of Preventive Medicine, Yonsei University College of Medicine
Department of Public Health, Yonsei University Graduate School
Center for Global Health, Massachusetts General Hospital
Harvard Center for Population and Development Studies, Harvard University

CONTACT INFORMATION

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PROFESSIONAL APPOINTMENTS

- 2022-pres. **Massachusetts General Hospital**
Visiting Scholar
Center for Global Health
- 2022-pres. **Harvard University**
Visiting Scientist
Harvard Center for Population and Development Studies
- 2022-pres. **Yonsei University College of Medicine**
Associate professor (tenure-track)
Department of Preventive Medicine
- 2018-2022. **Yonsei University College of Medicine**
Assistant professor (tenure-track)
Department of Preventive Medicine
- 2018-2020 **Harvard T.H. Chan School of Public Health**
Visiting Scientist
Department of Epidemiology
- 2016-2018 **Harvard T.H. Chan School of Public Health**
Yerby Post-doctoral Research Fellow
Department of Epidemiology
- 2016 **Seoul National University College of Medicine**
Research Instructor
Department of Preventive Medicine
- 2015 **Seoul Metropolitan Government**
Epidemic Intelligence Service Officer
- 2014-2015 **Seoul National University**
Basic Research Fellow
Department of Biomedical Science

- 2011-2014 **Seoul National University College of Medicine**
Resident
Department of Preventive Medicine
- 2010-2011 **Samsung Medical Center**
Intern Clinician
Department of Education and Training
- 2008-2009 **World Health Organization, Bonn Office**
Intern
Department of Environment and Occupational Health

EDUCATION

- 2014-2016 **Seoul National University, Seoul, Korea**
Ph.D. in Biomedical Science
- 2011-2014 **Seoul National University College of Medicine**
M.S. in Medicine
- 2003-2009 **Yonsei University College of Medicine**
M.D.

LICENSE & CERTIFICATIONS

- 2014 **Board Certified in Preventive Medicine**
Certification No. 808
Ministry of Health and Welfare, Korea
- 2009 **Licensed as a Medical Physician**
License No. 99200
Ministry of Health and Welfare, Korea

GRANT FUNDING & FELLOWSHIPS

- 2022 **Co-PI**, (PI: Jae Won Kim), Mental Health R&D project
Title: Development of child and adolescent mental health monitoring and early intervention system
Ministry of Health and Welfare, Korea
Total amount: 3,880,000,000 won (approx. \$3880,000) for 6 years
- 2022 **PI**, Mental Health R&D project
Title: Development of mental health screening algorithm for various subjects based on COVID-19 big data analysis and evidence
Ministry of Health and Welfare, Korea
Total amount: 675,000,000 won (approx. \$675,000) for 6 years

- 2022 **PI**, Song-Am Bang Sook Research Grant
 Title: Association between mental health and physical health among North Korean refugees in S. Korea
 Department of Preventive Medicine, Yonsei University College of Medicine
 Total amount: 10,000,000 won (approx. \$10,000) for 1 year
- 2021 **Co-PI** (PI: Inhee Mook-Jung), National Dementia Research Center
 Title: Dementia research information integration and connection system (DPK) establishment
 Ministry of Health and Welfare, Korea
 Total amount: 4,500,000,000 won (approx. \$4,500,000) for 9 years
- 2021 **Co-PI** (PI: Young Chul Jung), Patient-centered medical technology optimization research project
 Title: Development of digital therapeutics-based discharge education program for inpatients with alcoholism
 Ministry of Health and Welfare (HC20Co101), Korea
 Total Amount: 1,000,000,000 won (approx. \$1,000,000) for 5 years
- 2020 **Co-PI**, (PI: Seung-sik Hwang),
 Title: A Study on the Planning of Panel Study for Mental Health Amid COVID-19 Pandemic
 Ministry of Health and Welfare, Korea
 Total amount: 38,800,000 won (approx. \$38,800) for 5 months
- 2020 **PI**, Basic Science Research Program (신진연구)
 Title: Assessing the relationship between psychological trauma and physical health outcomes: focusing on exposure pattern, disease heterogeneity, interaction between gene-trauma type-environment, and resilience (2020R1C1C1003502)
 National Research Foundation, Korea
 Total amount: 750,000,000 won (approximately \$750,000) for 5 years
- 2019 **Co-PI** (PI: Young Chul Jung), National Service Project
 Title: National Health Survey Mental Health Area Questionnaire Development
 Center for Disease Control and Prevention, Korea
 Total Amount: \$700,000
- 2019 **Co-PI** (PI: Hyeon Chang Kim), Basic Research Laboratory
 Title: Cohort and Mechanism Studies on Immunosenescence-Inflammaging (2019028155)
 Ministry of Science and ICT, National Research Foundation, Korea
 Total Amount: \$ 1,250,000
- 2018-Curr **PI**, Community Health Survey
 Title: Community Health Survey, Incheon-Kanghwa province (2018-31-0312)
 Center for Disease Control and Prevention, Korea
 Total Amount: \$500,000/year

- 2018 **PI**, Young Researcher Program
 Title: Association Between Psychological Resilience defined with various definition including Heart Rate Variability (HRV) and Inflammatory Biomarkers (2018R1C1B5083722)
 National Research Foundation, Korea
 Total Amount: \$100,000
- 2018 **PI**, Yonsei University Research Faculty Research Grant.
 Title: Evaluating the mediation effect of cardiometabolic factors on association between female hormone change and cognitive decline in perimenopausal women (6-2018-0095)
 Yonsei University College of Medicine
 Total Amount: \$100,000
- 2018 **PI**, Yonsei University Research Development Program.
 Title: Exploratory analysis of the effect of medications on Parkinson's disease incidence (2018-32-0034)
 Yonsei University
 Total Amount: \$10,000
- 2016 Yerby post-doctoral fellowship, Harvard T.H. Chan School of Public Health
 Total Amount: \$65,000 x 2 year
- 2016 Global post-doctoral fellowship, National Research Foundations Korea
 Total Amount: \$40,000/year
- 2015 Travel scholarship for Outstanding Research in Society of Epidemiologic Research, Denver, 2015
- 2015 **Co-PI** (PI: Aesun Shin), Meta-analysis Research Grant
 Seoul National University
 Total Amount: \$10,000

AWARDS

- 03/17/2022 Best Young Investigator Award
 Yonsei University College of Medicine
- 09/16/2021 Hyungwoodang Young Epidemiologist Award
 Korean Society of Epidemiology
- 04/02/2021 Honors for the Best Survey Performance
 Community Health Survey: Kanghwa Area
 Korea Disease Control and Prevention Agency
- 09/25/2019 Young Investigator Award
 Title: Association between Psychologic Resilience and Cognitive Function at Later Life: Effect Modification by Inflammatory Status
 5th International Symposium on Resilience Research, Mainz, Germany

Total Amount: €1,000

- 04/19/2018 Award of an Excellence Poster Presentation, The 9th General Assembly and International Conference of Asian Pacific Organization for Cancer Prevention (APOCP-9)
- 09/01/2016 Yerby post-doctoral fellowship, Harvard T.H. Chan School of Public Health
Total Amount: \$65,000 x 2 year
- 03/01/2016 Global post-doctoral fellowship, National Research Foundations Korea
Total Amount: \$40,000/year
- 06/21/2016 Travel scholarship for Epidemiology Congress of America, funded by Autism Speaks, Miami, 2016
- 12/20/2015 Award for the Best Researcher of the Year, Seoul National University College of Medicine
- 12/21/2011 Best Teaching Assistant Award in Preventive Medicine, Seoul National University College of Medicine
- 2011 Award for Outstanding Poster Presentation, Korean Society for Preventive Medicine, Kyungju, 2011
- 2011 Award for Outstanding Academic Accomplishment in Preventive Medicine, Seoul National University

INVITED LECTURESHIPS

- 06/29/2022 Invited Lecturer, “Biological and social evidence from the perspective of women's mental health and epidemiology”
Korea Institute for Health and Social Affairs, Seoul, Korea
- 06/27/2022 Invited Lecturer, “Introduction of causal inference in epidemiologic methods”
Korean Society of Epidemiology, Seoul, Korea
- 11/12/2021 Invited Lecturer, “Epidemiologic assessments in Mental Health Research”
Underwood International College, Yonsei University, Seoul, Korea
- 10/27/2021 Invited Lecturer, “Epidemiological assessment in Pediatric Research”
Department of Pediatrics, Severance Hospital, Seoul, Korea
- 10/12/2021 Invited Lecturer, “Career development in Epidemiology and Public Health”
Seoul National University College of Medicine, Seoul, Korea
- 07/18/2021 Invited Lecturer, “Epidemiologic methods in causal inference”
Korean Society of Epidemiology, Seoul, Korea
- 06/30/2021 Invited Lecturer, “Child and adolescent mental health in COVID-19 era”

Korea Institute for Health and Social Affairs, Seoul, Korea

- 04/21/2021 Invited Lecturer, “My journey as linking the mental health and physical health in epidemiology”
Kyunghee Medical Center Department of Psychiatry, Seoul, Korea
- 03/10/2021 Invited Lecturer, “Fellowship abroad and Career Development”
Severance Academy, Yonsei Medical Center, Seoul, Korea
- 02/25/2021 Invited Lecturer, “Understanding COVID-19 pandemic and vaccine strategy in Korea”
Women Faculty Association, Yonsei University College of Medicine, Seoul, Korea
- 12/17/2020 Invited Lecturer, “Psychological Response to Trauma, Disaster and Pandemic: Global Burden and Future Perspectives”
Disaster, Response & Future Challenges. Hosted by Korean Society of Disaster Medicine. Seoul, Korea
- 10/16/2020 Invited Lecturer, “Mediation analysis in epidemiological studies”
Annual conference of the Korean Society for Preventive Medicine 2020, Daegu, Korea.
- 10/16/2020 Invited Lecturer, “Selection of the Indices of Adolescent Population Mental Health”
Annual conference of the Korean Society for Preventive Medicine 2020, Daegu, Korea.
- 09/23/2020 Invited Lecturer, “Mediation analysis in Epidemiology and Introduction to Directed Acyclic Graph”
Methods in Chronic Diseases Research, Seoul National University College of Medicine
- 09/15/2020 Invited Lecturer, “Basic Epidemiology and Study Design”
Severance International Fellowship Program, Severance Academy
- 07/21/2020 Invited Lecturer, “Linking Psychological Trauma and Physical Health using Big Data and Cohort Analysis: from Individual to Social Level Mental Health Approach”
Monthly scientific conference of Trauma Stress Work Group, Korea
- 07/03/2020 Invited Lecturer, “Depression and Cardiovascular Disease: Results in Epidemiology”
2020 annual Spring Scientific Conference of the KSC with Affiliated Cardiac Societies, Kyung-ju, Korea
- 05/21/2020 Panel Participant, “COVID-19: A global health perspective- Morning coffee with Stanley Global collaborators and COVID-19 experts from China and South Korea”
Broad Institute, Boston, MA, USA

- 04/27/2020 Invited Lecturer, “Healthy Lifestyle and Epidemiology about Alcohol consumption”
Lecture for Medical students in a course “Understanding basics of medicine”
Seoul National University College of Medicine
- 10/25/2019 Invited Lecturer, “Population Psychiatric Research: From Epidemiology to Big data in Sleep Research”
2019 Korean Academy of Sleep Medicine, Seoul National University Hospital
Biomedical Research Institute
- 10/10/2019 Panel Participant, “Symposium on Women’s Health in Korea”
Center for Disease Control and Prevention, Korea
- 10/10/2019 Invited Lecturer, “Posttraumatic stress disorder and its health impact in Korea”
Posttraumatic Embitterment in Korea 2019, Gwan-ak Public Health Forum
School of Public Health, Seoul National University
- 09/11/2019 Invited Lecturer, “Introduction to Neuropsychiatric Epidemiology”
Monthly faculty lecture
Department of Psychiatry, Severance Hospital
- 04/20/2019 Panel Participant, “Novel biomarkers and risk factors for heart disease”, 2019
Annual Spring Scientific Conference of the KSC with Affiliated Cardiac Societies,
The Korean Society of Cardiology, Busan, Korea
- 04/12/2019 Lecturer, “Linking Physical Health and Mental Health using Big Data in
Epidemiology”, 2019 Annual Spring Scientific Conference of Korean
NeuroPsychiatric Association. Seoul, Korea
- 03/27/2019 Lecturer, “Status of alcohol consumption in Community Health Study in Korea”,
Grand Report of 2018 Community Health Study and Quality Assessment. Seoul,
Korea
- 03/15/2019 Chair for panel discussion, “Newer Approach of Cardiovascular Disease”, Annual
Meeting of Korean Society of Cardiovascular Disease Prevention, Seoul, Korea

PEER-REVIEWED JOURNAL ARTICLES

*Corresponding author

1. Kim, K., Tsai, A.C., Lowe, S., Stewart, R., **Jung, S.J.*** (2022) Urbanicity, posttraumatic stress disorder, and effect modification by socioeconomic position: A nested case-control study of the Korean National Health Insurance Database. *Acta Psychiatr Scand.* 2022 Sep 9. doi: 10.1111/acps.13499. Epub ahead of print. PMID: 36086797.
2. Jeon, Y.J., Lee, Y., Yang, J.S., Park, Y.S., **Jung, S.J.*** (2022) Physical and mental health characteristics related to trust and intention toward COVID-19 vaccine: results from a community-based longitudinal study. *Epidemiol Health.* 2022 Aug 3:e2022064. doi: 10.4178/epih.e2022064. Epub ahead of print. PMID: 35940179.

3. Kang, S., Kim, E., Cho, H., Kim, D.J., Kim, H.C., **Jung, S.J.*** (2022) Associations between non-alcoholic fatty liver disease and cognitive impairment and the effect modification of inflammation. *Sci Rep.* 2022 Jul 23;12(1):12614. doi: 10.1038/s41598-022-16788-x. PMID: 35871085; PMCID: PMC9308768.
4. Kim, K., Tsai, A.C., Sumner, J.A., **Jung, S.J.*** Posttraumatic stress disorder, cardiovascular disease outcomes and the modifying role of socioeconomic status. *J Affect Disord.* 2022 Sep 26;319:555-561. doi: 10.1016/j.jad.2022.09.117. Epub ahead of print. PMID: 36174781.
5. Lee, Y.J., Kim, S.E., Youm, Y., Kim, H.C., **Jung, S.J.*** (2022) Association of social network properties with resilience and depression among community-based Korean population. *J Psychiatr Res.* 2022 Oct;154:300-306. doi: 10.1016/j.jpsychires.2022.07.063. Epub 2022 Aug 6. PMID: 35970052.
6. Kim, J., Yang, J.S., Youm, Y., Kim, D.J., Kim, H.C., **Jung, S.J.*** (2022) Association Between Social Network and Cognitive Function: A Cross-Sectional Assessment From the Cardiovascular and Metabolic Diseases Etiology Research Center Cohort (2013-2018). *Front Psychiatry.* 2022 Jun 6;13:893290. doi: 10.3389/fpsyt.2022.893290. PMID: 35733804; PMCID: PMC9207251.
7. Seo, E., **Jung, S.**, Lee, H., Kim, H.C. (2022) Sex-Specific Trends in the Prevalence of Hypertension and the Number of People With Hypertension: Analysis of the Korea National Health and Nutrition Examination Survey (KNHANES) 1998-2018. *Korean Circ J.* 2022 May;52(5):382-392. doi: 10.4070/kcj.2021.0347. Epub 2022 Feb 7. PMID: 35257521; PMCID: PMC9064695.
8. Lee, Y., Jeon, Y.J., Kang, S., Shin, J.I., Jung, Y.C., **Jung, S.J.*** (2022) Social media use and mental health during the COVID-19 pandemic in young adults: a meta-analysis of 14 cross-sectional studies. *BMC Public Health.* 2022 May 17;22(1):995. doi: 10.1186/s12889-022-13409-0. PMID: 35581597; PMCID: PMC9112239.
9. Lee, D.W., Lee, S., Oh, S.S., Youn, H.M., Choi, D.W., **Jung, S.J.**, Jang, S.I., Park, E.C. (2022) Risk of suicide death in psychiatric patients according to the level of continuity of care and area deprivation: A population-based nested case-control study. *J Psychiatr Res.* 2022 Jul;151:279-285. doi: 10.1016/j.jpsychires.2022.04.024. Epub 2022 Apr 28. PMID: 35523068.
10. Lee, Y., Jeon, Y.J., Shim, J.S., **Jung, S.J.*** (2022) Association between dietary and suicidal behaviors based on the Youth Risk Behavior Survey (2015-2020). *Epidemiol Health.* 2022 Mar 12:e2022033. doi: 10.4178/epih.e2022033. Epub ahead of print. PMID: 35381168.
11. Lee, G.B., **Jung, S.J.**, Yiyi, Y., Yang, J.W., Thang, H.M., Kim, H.C. (2022) Socioeconomic inequality in compliance with precautions and health behavior changes during the COVID-19 outbreak: an analysis of the Korean Community Health Survey 2020. *Epidemiol Health.* 2022;44:e2022013. doi: 10.4178/epih.e2022013. Epub 2022 Jan 9. PMID: 35008144; PMCID: PMC8989472.
12. Shim, S.Y., Lee, G.B., Shim, J.S., **Jung, S.J.**, Kim, H.C. (2021) Association between a family history of diabetes and carotid artery atherosclerosis in Korean adults. *Epidemiol Health.* 2021;43:e2021049. doi: 10.4178/epih.e2021049. Epub 2021 Aug 3. PMID: 34525777; PMCID: PMC8510832.

13. Kim, K., Kim, C.W., Shin, A., Kang, H., **Jung, S.J.*** (2021) Effect of chemotherapy and radiotherapy on cognitive impairment in colorectal cancer: evidence from Korean National Health Insurance Database Cohort. *Epidemiol Health*. 2021;43:e2021093. doi: 10.4178/epih.e2021093. Epub 2021 Nov 2. PMID: 34735757; PMCID: PMC8920736.
14. Kim, K., Yang, J., Jeon, Y.J., Lee, Y.J., Lee, Y., Kim, H.C., Koenen, K., Kim, Y.C., **Jung, S.J.***(2021) The effect of information-seeking behaviours on prevention behaviour implementation during the COVID-19 pandemic: mediating effects of anxiety and fear. *Epidemiol Health*. 2021 Oct 19:e2021085. doi: 10.4178/epih.e2021085. Epub ahead of print. PMID: 34696572.
15. Lee, Y, **Jung S.J.*** (2021) Saving Our Healthcare Workers Again During the COVID-19 Pandemic in the Philippines. *J Prev Med Public Health*. 2021 Sep;54(5):382-383. doi: 10.3961/jpmph.21.483. Epub 2021 Sep 30. PMID: 34649402.
16. Lee, Y.J., Kim ,H.C., **Jung, S.J.*** (2021) Depressive subfactors and cognitive function in midlife. *J Affect Disord*. 2021 Sep 3;295:752-758. doi: 10.1016/j.jad.2021.08.152. Epub ahead of print. PMID: 34517249.
17. Jeon, Y.J., Lee, J.H., Kim, H.C., **Jung S.J.*** (2021) Exploring the associations between cardiovascular health measured with the CANHEART model and early cognitive impairment in a middle-aged population in Korea. *Epidemiol Health*. 2021;43:e2021044. doi: 10.4178/epih.e2021044. Epub 2021 Jul 13. PMID: 34293257.
18. Nishimi,K., Adler,G.K., Roberts,A.L., Sumner,J.A., **Jung,S.J.**, Chen,Q., Tworoger,S., Koenen,K.C. Kubzansky, L.D. (2021) Associations of trauma and posttraumatic stress disorder with aldosterone in women, *Psychoneuroendocrinology*, 132 (105341), 2021, ISSN 0306-4530, <https://doi.org/10.1016/j.psyneuen.2021.105341>.
19. Park, M. **Jung, S.J.*** (2021) Association between menstrual cycle irregularity and suicidal ideation among Korean women: Results from the Korea national health and nutrition examination survey (2010-2012). *J Affect Disord*. 2021 Jun 26;293:279-284. doi: 10.1016/j.jad.2021.06.052. Epub ahead of print. PMID: 34225207.
20. **Jung, S.J.***, Lee, G.B., Nishimi, K., Chibnik, L., Koenen, K.C., Kim, H.C. (2021) Association between psychological resilience and cognitive function in older adults: effect modification by inflammatory status. *Geroscience*. 2021 Jun 29:1–12. doi: 10.1007/s11357-021-00406-1. Epub ahead of print. PMID: 34184172; PMCID: PMC8238632.
21. **Jung, S.J.***, Jeon, Y.J., Yang, J.S., Park, M., Kim, K., Chibnik, L.B., Kim, H.C., Koenen, K.C. (2021) Impact of COVID-19 on mental health according to prior depression status: A mental health survey of community prospective cohort data. *J Psychosom Res*. 2021 Jun 18;148:110552. doi: 10.1016/j.jpsychores.2021.110552. Epub ahead of print. PMID: 34171768
22. Cho, S.M., Lee, H., Shim J.S., Youm, Y., **Jung, S.J.**, Kim, D.J., Kim, H.C. (2021) Association between social network structure and physical activity in middle-aged Korean adults. *Soc Sci Med*. 2021 Aug;282:114112. doi: 10.1016/j.socscimed.2021.114112. Epub 2021 Jun 8. PMID: 34153819.

23. **Jung, S.J.*** (2021) Introduction to Mediation Analysis and Examples of Its Application to Real-world Data. *J Prev Med Public Health*. 2021 May;54(3):166-172. doi: 10.3961/jpmph.21.069. Epub 2021 May 7. PMID: 34092062.
24. Yang, J. S., Jeon, Y.J., Lee, G.B., Kim, H.C., **Jung, S.J.*** (2021) The association between psychological resilience and cognitive function in longitudinal data: Results from the community follow-up survey. *Journal of Affective Disorders*. Volume 290, 2021, Pages 109-116, ISSN 0165-0327, <https://doi.org/10.1016/j.jad.2021.04.062>.
25. Lee, G.B., **Jung, S.J.***, Kim, H.C. (2021) Association Between Sleep Duration and Augmentation Index in Post-Menopausal Women: A Moderating Role of Depressive Symptoms. *Maturitas* Volume 149, 2021, Pages 8-15, ISSN 0378-5122, <https://doi.org/10.1016/j.maturitas.2021.04.007>.
26. Park, S., Lee, Y., Kim, T., **Jung, S.J.*** (2021) Anxiety and COVID-19 related stressors among healthcare workers who performed shift work at four COVID-19 dedicated hospitals in Korea. *J Occup Environ Med*. 2021 Oct 1;63(10):875-880. doi:. PMID: 34597284; PMCID: PMC8478099.
27. Choi, H.R., Ha, B., Jeon, Y.J., Yeom, Y. Kim, H.C., **Jung, S.J.*** (2021) Gender role stereotypes, patriarchal mindset, and cognitive function in the elderly rural population: A cross-sectional study. *Epidemiol Health*. 2021 Apr 7;e2021023. doi: 10.4178/epih.e2021023\
28. Mirza M.A., **Jung S.J.**, Sun W, Qureshi A.A., Cho E. Association of depression and alopecia areata in women: A prospective study. *J Dermatol*. 2021 Jun 14. doi: 10.1111/1346-8138.15931. Epub ahead of print. PMID: 34128269.
29. Anni, N.S., **Jung, S.J.**, Shim, J.S., Jeon, Y.W., Lee, G.B., Kim, H.C. (2021) Stressful life events and serum triglyceride levels: the Cardiovascular and Metabolic Diseases Etiology Research Center cohort in Korea. *Epidemiol Health*. 2021;43:e2021042. doi: 10.4178/epih.e2021042. Epub 2021 Jun 9. PMID: 34126706; PMCID: PMC8289470.
30. **Jung, S.J.***, Jeon, Y.J., Choi, K.W., Yang, J.S., Chae, J.H., Koenen, K.C., Kim, H.C. (2021) Correlates of psychological resilience and risk: Prospective associations of self-reported and relative resilience with Connor-Davidson resilience scale, heart rate variability, and mental health indices. *Brain Behav*. 2021 Feb 27;e02091. doi: 10.1002/brb3.2091. Online ahead of print.
31. Hwang, S.Y., Kim, K., Ha, B., Lee, D., Kim, S., Ryu, S., Yang, J.S., **Jung, S.J.*** (2021) Neurocognitive effects of chemotherapy for colorectal cancer: A systematic review and a meta-analysis of 11 studies. *Cancer Res Treat*. 2021 Mar 17. doi: 10.4143/crt.2020.1191. Online ahead of print.
32. Lee, G.B., Kim, H.C., Jeon, Y.J., **Jung, S.J.*** (2021) Association between Socioeconomic Status and Longitudinal Sleep Quality Patterns Mediated by Depressive Symptom. *Sleep*. 2021 Feb 25;zsab044. doi: 10.1093/sleep/zsab044. Online ahead of print. PMID: 33630996
33. Lee, T.K. Jeon, Y.J. **Jung, S.J.*** (2021) Bi-directional association between Allergic Rhinitis and Diabetes Mellitus from the national representative data of South Korea. *Scientific Report*. 2021 Feb 23;11(1):4344. doi: 10.1038/s41598-021-83787-9. PMID: 33623055

34. Lee, Y., Kim, K., Park, S. **Jung, S.J.*** (2021) The association between general perception about COVID-19 and posttraumatic disorder in hospital workers: effect modification by previous Middle East Respiratory Syndrome coronavirus experience and occupational type. *J Prev Med Public Health.* 2021;54(2):86-95. Published online January 19, 2021
DOI: <https://doi.org/10.3961/jpmph.20.540>
35. **Jung, S.J.**, Lim, S., Yoon, J.H. (2021) Fluctuations in influenza-like illness epidemics and suicide mortality: A time-series regression of 13-year mortality data in South Korea. *PLoS One.* 2021 Feb 12;16(2):e0244596. doi: 10.1371/journal.pone.0244596. eCollection 2021.PMID: 33577567
36. Lawn, R.B., Nishimi, K.M., Kim, Y., **Jung, S.J.**, Roberts, A.L., Sumner, J.A., Rhurtston, R.C., Chibnik, L.B., Rimm, E.B., Ratanatharathorn, A.D., Jha, S.C., Koenen, K.C., Tworoger, S.S., Kubzansky, L.D. (2020) Posttraumatic Stress Disorder and Likelihood of Hormone Therapy Use among Women in the Nurses' Health Study II: A 26-Year Prospective Analysis. *Cancer Epidemiol Biomarkers Prev.* 2021 Mar;30(3):492-498. doi: 10.1158/1055-9965.EPI-20-1227. Epub 2020 Dec 21. PMID: 33355196; PMCID: PMC8049954.
37. Baek J, **Jung S.J.**, Shim J.S., Jeon Y.W., Seo E, Kim H.C. (2020) Comparison of Computed Tomography-based Abdominal Adiposity Indexes as Predictors of Non-alcoholic Fatty Liver Disease Among Middle-aged Korean Men and Women. *J Prev Med Public Health.* 2020 Jul;53(4):256-265. doi: 10.3961/jpmph.20.140. Epub 2020 Jun 18.
PMID: 32752595
38. Jeon Y.J., **Jung, S.J.***, Kim, H.C. (2020) Does serum vitamin D level affect the association between cardiovascular health and cognition? Results of the Cardiovascular and Metabolic Diseases Etiology Research Center (CMERC) study. *Eur J Neurol.* 2020 Sep 2. doi: 10.1111/ene.14496.
39. Kim, K., **Jung, S.J.***, Baek, J.M., Yim, H.W., Jeong, H., Kim, D.J., Park, S., Youm, Y., Kim, H.C. (2020) Association between social network properties and metabolic syndrome and mediating effect of physical activity: findings from the Cardiovascular and Metabolic Diseases Etiology Research Center (CMERC) Cohort. *BMJ Open Diabetes Res Care.* 2020 Jul;8(1):e001272. doi: 10.1136/bmjdr-2020-001272. PMID: 32675290; PMCID: PMC7368478.
40. Jeon Y.W., Park E.S., **Jung S.J.**, Kim Y., Choi J.Y., Kim H.C. (2020) Protection of Healthcare Workers Against COVID-19 at a Large Teaching Hospital in Seoul, Korea. *Yonsei Med J.* 2020 Jul;61(7):631-634. doi: 10.3349/ymj.2020.61.7.631. PMID: 32608207; PMCID: PMC7329738.
41. Lee, K.H., Seon, H.J., Jeong, G.H., Kim, J.Y., Par, H, Jung, E., Kronbichler, A., Eisenhut, M., Stubbs, B., Solmi, M., Koyanagi, A., Hong, S.H., Dragioti, E., de Rezende, L.F.M., Jacob, L, Keum, N., van der Vliet, H.J., Cho, E., Veronese, N., Grosso, G., Ogino, S., Song, M.m Radua, J. **Jung, S.J.**, Thompson, T., Jackson, S.E., Smith, L, Yang, L., Shin, J.I., Choi, E.K., Oh, H., Giovannucci, E.L., Gamerith, G. (2020) Consumption of fish and omega-3 fatty acids and cancer risk: an umbrella review of meta-analyses of observational studies. *Adv Nutr.* 2020 Sep 1;11(5):1134-1149. doi: 10.1093/advances/nmaa055. PMID: 32488249; PMCID: PMC7490175.

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66. **Jung, S.J.**, Shin, A, Kang, D. (2015) Menarche age, menopause age and other reproductive factors in association with post-menopausal onset depression: Results from Health Examinees Study (HEXA). *Journal of Affective Disorders*, 187, 127-135
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69. **Jung, S.J.** Park, S.K., Shin, A., Lee, S.A., Choi, J. Y., Hong, Y.C., Yoo, K. Y. Kee, J. K., Kang, D. (2015) Body mass index at age 18–20 and later risk of spontaneous abortion in the Health Examinees Study (HEXA). *BMC Pregnancy and Childbirth*, 15 (1), 228
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CONFERENCE PRESENTATIONS

* Corresponding author, †Oral Presentation

- Kim, K., Tsai, A.C., Sumner, J.A., **Jung, S.J.*** Heightened Cardiovascular Disease Risk Associated with PTSD is More Prominent in Patients with Lower Socioeconomic Status Evidences from a Representative Nationwide Longitudinal Database. Society for Epidemiologic Research Conference 2022, Chicago, IL June 14 – 17, 2022[†]
- Yang, J.S., Lee, Y.J., Lee, Y., Kim, H.C., **Jung, S.J.*** Association between Previous Social Network Properties and PTSD Symptoms during COVID-19 Pandemic. Society for Epidemiologic Research Conference 2022, Chicago, IL June 14 – 17, 2022
- Kim, H., Yang, J.S., Kim, J.W., **Jung, S.J.*** The Association of Sexual Violence Perpetration and Victimization with Depression, Suicidal Ideation, and Suicide Attempts among Korean Adolescents. Society for Epidemiologic Research Conference 2022, Chicago, IL June 14 – 17, 2022
- Kim, J., Yang, J.S., Youm, Y., Kim, D.J., Kim, H.C., **Jung, S.J.*** Association between social network and cognitive function: a cross sectional assessment from the Cardiovascular and Metabolic Diseases Etiology Research Center cohort (2013- 2018). Society for Epidemiologic Research Conference 2022, Chicago, IL June 14 – 17, 2022
- Lee, Y.J., **Jung, S.J.*** A network approach on PTSD symptoms with comorbid depressive symptoms in Korean general population after the outbreak of the COVID-19 pandemic. Society for Epidemiologic Research Conference 2022, Chicago, IL June 14 – 17, 2022
- **Jung, S.J.***, Lee, G.B., Nishimi, K., Chibnik, L, Koenen, K.C., Kim, H.C. Association between Psychologic Resilience and Cognitive Function at Later Life: Effect Modification by Inflammatory Status (09.25.2019) 5th International Symposium on Resilience Research; Mainz, Germany[†]
- Choi, H.R., Ha B., Youm, Y.S., Kim, H.C., **Jung, S.J.*** Gender role stereotypes, patriarchal mindset, and cognitive function in the elderly rural population: Results from the Korean Social Life. Health and Aging Project (KSHAP). (October, 2019) The 70th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea.
- Kim, K., **Jung, S.J.***, Baik, J.M., Kim, H.C. Association between social network properties and metabolic syndrome and mediating effect of physical activity: findings from The Cardiovascular and Metabolic Diseases Etiology Research Center (CMERC) Cohort. (October, 2019) The 70th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea. [†]
- Lee, Y.J., Kim, H.C., Lee, E., **Jung, S.J.***. Heterogenous association pattern of somatic and cognitive depressive symptoms on suicidality: a cross-sectional study of KNHANES, 2014 and 2016. (October, 2019) The 70th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea.
- Jeon, Y.J., Lee, J., **Jung, S.J.*** Cardiovascular health and cognitive function: modifying effects according to inflammatory markers. The 70th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea. [†]

- Jeon, Y.J., Kim, H.C., **Jung, S.J.*** Association between Cardiovascular Health and Cognition: Does an effect modification by serum Vitamin D exist? (June, 2019) Society for Epidemiologic Research; Minneapolis, MN, USA
- Jeon, Y.J., Kim, H.C., **Jung, S.J.** Depression, its sub-factor, and augmentation index: modifying effect according to inflammatory markers. (June, 2019) Society for Epidemiologic Research; Minneapolis, MN, USA
- **Jung, S.J.**, Heo, J.E., Koenen, K.C., Kim, H.C. Psychological Resilience and Inflammatory Biomarkers in Cardiovascular and Metabolic Etiology Research Center Cohort: A cross-sectional survey. (November, 15, 2018) Lancet Summit; Barcelona, Spain.
- **Jung, S.J.**, Roberts, A., Sumner, J., Nishimi, K., Chen Q., Kubzansky, L., Rimm, E., Koenen, K. (June, 2018) Posttraumatic Stress Disorder and Hormone Replacement Therapy Use in the Nurses' Health Study II. (August, 2017) World Congress of Epidemiology 2017, Saitama, Japan. †
- **Jung, S.J.**, Sumner, J., Gibson, C, Kim, Y., Roberts, A., Chem Q., Kubzansky, L., Rimm, E., Koenen, K. (June, 2018) Posttraumatic Stress Disorder and Hormone Replacement Therapy Use in the Nurses' Health Study II. Society for Epidemiology; Baltimore, ML, U.S.
- **Jung, S.J.**, Lee, J., Choi, J.W., Kim, S., Shin, A., Lee, Y.J. Association between sedative-hypnotic medication use and incidence of cancer in Korean National Health Insurance Service data 2002-2015. (April, 2018) The 9th General Assembly and International Conference of Asian Pacific Organization for Cancer Prevention (APOCP-9); Jeju, S. Korea
- **Jung, S. J.** Shin, A., Lee, J.K., Yim, H.W., Lee, Y. J., Kang, D. (June, 2016). Association between Past Body Mass Index, Weight Change and Self-Reported Depression in the Health Examinees Study (HEXA). *Epidemiology Congress of America*; Miami, FL. U.S.
- Park, H.M., Woo, H, **Jung, S.J.**, Jung, K.W., Shin, H.R., Shin, A. (June, 2016). Colorectal cancer incidence in 5 Asian countries by subsite: an analysis of Cancer Incidence in Five Continents (1998-2007). *Asian Pacific Organization for Cancer Prevention*; Brisbane, Australia.
- **Jung, S.J.*** Shin, A., Kang, D. (June, 2015). Female hormone-related factors and post-menopausal onset depression: results from Health Examinee Study (HEXA) 2004-2012. *Society for Epidemiologic Research*; Denver, CL, U.S. †
- **Jung, S.J.** Shin, A., Kang, D. (October, 2015). Dietary vitamin C, iron consumption and depression in Health Examinees Study (HEXA). The 67th Annual meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea
- **Jung, S.J.** Shin, A., Kang, D. (October, 2014). Cigarette smoking and depressive symptoms in the Korea National Health and Nutrition Examination Survey (KNHANES). The 66th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea

- **Jung, S.J.*** Choi, J.Y., Park, S.K., Yoo, K.Y., Kang, D. (October, 2013) Selected medical conditions and breast cancer risk: Seoul Breast Cancer Study. The 64th Annual Meeting of the *Korean Society for Preventive Medicine*; Dae-gu, Korea. †
- **Jung, S.J.** Choi, J.Y., Park, S.K., Yoo, K.Y., Kang, D. (April, 2012) Association of selected medical conditions with breast cancer risk in Korea. The 103rd Annual Meeting of *American Association for Cancer Research*; Chicago, IL. U.S.
- **Jung, S.J.** Choi, J.Y., Kang, D. (October, 2011) Association of immune system and breast cancer risk in Korea: Seoul Breast Cancer Study. The 62th Annual Meeting of the *Korean Society for Preventive Medicine*; Kyung-ju, Korea.

TEACHING EXPERIENCE

*Nominated for Outstanding Student Instructor Award (2011)

- | | |
|------|---|
| 2022 | <p>Current trend in epidemiology research
 Department of Preventive Medicine
 Yonsei University College of Medicine
 Professor in charge/ Associate Professor</p> |
| 2022 | <p>Epidemiology
 Department of Public Health
 Yonsei University Graduate school
 Professor in charge/ Main Lecturer /Associate Professor</p> |
| 2021 | <p>Methods in Neuro-psychiatric Epidemiology
 Department of Preventive Medicine
 Yonsei University College of Medicine
 Professor in charge/ Assistant Professor</p> |
| 2021 | <p>Epidemiology
 Department of Public Health
 Yonsei University Graduate school
 Professor in charge/ Main Lecturer /Assistant Professor</p> |
| 2020 | <p>Causal Inference in Epidemiology
 Department of Preventive Medicine
 Yonsei University College of Medicine
 Professor in charge/ Assistant Professor</p> |
| 2020 | <p>Epidemiology
 Department of Preventive Medicine
 Yonsei University College of Medicine
 Professor in charge/ Assistant Professor</p> |
| 2020 | <p>Current trend in epidemiology research
 Department of Preventive Medicine</p> |

Yonsei University College of Medicine
Professor in charge/ Assistant Professor

- 2019 **Methods in Cohort study**
Department of Preventive Medicine
Yonsei University College of Medicine
Professor in charge/ Assistant Professor
- 2019-curr. **Weekly Seminars in Public Health and Preventive Medicine**
Department of Preventive Medicine
Yonsei University College of Medicine
Professor in charge/ Assistant Professor
- 2018-curr. **Journal review of Emerging themes in Epidemiology and Environmental Health**
Department of Preventive Medicine
Yonsei University College of Medicine
Professor in charge/ Assistant Professor
- 2019 **Clinical Epidemiology**
Department of Preventive Medicine
Yonsei University College of Medicine
Main Lecturer/ Assistant Professor
- 2019 **Preventive Medicine: Epidemiology**
Department of Preventive Medicine
Yonsei University College of Medicine
Main Lecturer/ Assistant Professor
- 2019 **Epidemiology**
Department of Public Health
Yonsei University Graduate school
Professor in charge/ Main Lecturer /Assistant Professor
- 2018 **Causal Inference in Epidemiology**
Department of Preventive Medicine
Yonsei University College of Medicine
Professor in charge/ Main Lecturer /Assistant Professor
- 2015 **Introduction to Meta-analysis**
Department of Preventive Medicine, Seoul National University
Graduate Student Instructor (discussion classes)
With: Aesun Shin, M.D. Ph.D.
- 2014-2015 **Advanced Epidemiology in Preventive Medicine**
Department of Preventive Medicine, Seoul National University
Graduate Student Instructor (grader)
With: Yun-Chul Hong, M.D., Ph.D.; Aesun Shin M.D., Ph.D.

- 2012 **Molecular Cancer Epidemiology**
Department of Biomedical Science, Seoul National University
Graduate Student Teaching assistant (led 3 discussion classes)
With: Ji-Yeob Choi, Ph.D.
- 2012 **Ethics in Biomedical Science**
Department of Biomedical Science, Seoul National University
Graduate Student Teaching Assistant (led 3 discussion class)
With: Mikyung Kim, M.D. J.D.
- 2011-2013 **Basic Medical Statistics**
Department of Preventive Medicine, Seoul National University
Undergraduate Student Instructor (led 3 discussion classes)
With: Byung-Joo Park, M.D. Ph.D.
- 2011-2013 **Patient-Doctor-Society & Health Policy Management**
Department of Health Policy Management, Seoul National University
Undergraduate Student Instructor (led 1.5 discussion class)
- 2011-2013 **Occupational and Environmental Medicine**
Department of Preventive Medicine, Seoul National University
Undergraduate Student Instructor (led 2.5 discussion class)
- 2011-2013 **Research Methodology in Biomedical Science**
Department of Biomedical Science, Seoul National University
Graduate Student Teaching Assistant (led 3 discussion class)
- 2011-2013 **Preventive Medicine**
Department of Preventive Medicine, Seoul National University
Undergraduate Student Instructor (led 3 discussion class)

Dissertation and Research Advising

Active

Post-doctoral Advising:
Doowoong Lee, PhD (1)

Physician-Scientist (post-doctoral) Advising:
Sunghyuk Kang (1)

Doctoral Advising (full-time)
Kwanghyun Kim, Yu Jin Lee, Hyejin Kim, Ye Jin Jeon, Ji Su Yang, Youngrong Lee, Dongkyu Lee
(6)

Master Advising (full-time)
Minseo Park, Hyejin Kim, Jimin Kim, Yu Jin Lee, Ye Jin Jeon, Junghyun An (6)

Doctoral and Master thesis advising
Ga Bin Lee, Jihye Park, Yunjeong Choi, Seungwon Lee, Yu Jin Lee, Ye Jin Jeon, Ki-woong Choi,
Anni Sultana, Sunyoung Shim, Jongmin Baek, Yeoul Han, Thang HM, Jiyeon Han (13)

Undergraduate mentoring

Dongkyu Lee, Sun Wook Jung, Soo-young Hwang, Jae-wook Ji, Ji-heon Lee, Byungkwan Ha, Taekyung Lee, Sung-eun Kim, Young Suk, Min-jeong Han, Ji Min Hwang, Min-hyuck Kim, Jin-hyuck Suk, Dongkyu Lee, Hyewon Jang(15)

OTHER RESEARCH EXPERIENCE

- 2016-2018 **Trauma/PTSD Epidemiology Meeting**
Department of Epidemiology, Harvard T.H. Chan School of Public Health
Coordinator
- 2015 **Study of sleeping aid use in National Health Insurance System, Korea**
Department of Psychiatry, Seoul National University Hospital
Data Analyst
- 2011-2013 **Genomic cohort of healthy populations with regular check-up at large hospitals in Korea**
Centers for Disease Control and Prevention, Korea
General Researcher
- 2011-2013 **Epidemiological Investigation on Cancer Risk among Radiation Workers in Nuclear Power Plants and Residents nearby Nuclear Power Plants in Korea**
Ministry of Education, Science and Technology of Korea; Institute of Radiation Effect & Epidemiology; Seoul National University Medical Research Centre
General Researcher
- 2011 **Strategy Plans for Construction of Military Medical Research Institute**
Ministry of National Defense, Korea
Project Manager
- 2011 **Strategy Plans for Development of national Funding Biomedical Researchers in Seoul National University**
Seoul National University
Project Manager
- 2011 **Strategy Plans for development of health care technology in Seoul National University Hospital**
Seoul National University Hospital
Project Manager
- 2011 **Strategy Plans for Personalized Preventive Research**
Ministry of Health and Welfare, Korea
General Researcher

EDITORIAL SERVICE

Editorial board member:

Public Health and Society Research
Stress and Health

Ad hoc Reviewer: JAMA Neurology, British Medical Journal, Psychological Medicine, Journal of Affective Disorder, Journal of Psychiatric Research, Psychiatry Research, Journal of Breast Cancer, Journal of Korean Medical Society, Psychiatry Investigation, Social Psychiatry and Psychiatric Epidemiology, Cancer Research and Treatment, Cancer Causes & Control, BMC psychiatry, Journal of Breast Cancer, Psychiatry Investigation, Epidemiology and Health, Journal of Preventive Medicine and Public Health, Journal of Psychiatric Research, European Child and Adolescent Psychiatry, Yonsei Medical Journal, Korean Circulation Journal, Plos One, BMJ Open

PROFESSIONAL AFFILIATIONS

- Society of Epidemiologic Research
- International Epidemiological Association
- Korea Medical Association
- Korean Society of Epidemiology- Head of Education Committee
- Korean Society of Preventive Medicine
- National Center for Mental Health – advisory board
- National Evidence-based Healthcare Collaborating Agency– advisory board

SHORT BIOGRAPHY

Sun Jae Jung, MD, Ph.D. is a medical doctor of Preventive Medicine and a psychiatric epidemiologist. She continued her research on population mental health and COVID-19 related behaviors after this infectious outbreak. Her primary research interest is evaluating the bi-directional relationship between physical and psychological health using advanced epidemiological methods. She has focused on mental diseases such as PTSD, depression, cognitive impairment, and sleep disorders. She also focused on the interaction between biological and social factors of mental health. She has published studies evaluating potential biologic factors including cardiovascular, endocrinological, and reproductive health and social risk factors including social support, social network, and markers for the socio-economic position for depression and PTSD. She is the principal investigator of the COVID-19 and Mental Health longitudinal survey. She also utilized nationally representative big data and various longitudinal data, including Korean Genome and Epidemiology Study, Nurses' Health Study, Cardiovascular and Metabolic Etiology Research Center, and Korea National Health and Nutritional Examination Study. Her current research utilized epidemiological and statistical methods such as mediation and moderation analysis, group-based analysis including factor analysis and latent variable analysis, causal inference-based approach including IPTW and MSM, meta-analysis and meta-regression, and mixed-method research.

Topics of interest:

Epidemiology; Mental Health; Depression; PTSD; Suicide; Dementia; Psychiatric epidemiology; Hormone; Preventive Medicine; Longitudinal Study; Resilience/Psychological Well-Being; Psychologic Resilience; Cancer epidemiology; Behavior change; Cardiovascular epidemiology; Health behaviors; Advanced statistical methods; Predictive analytics; Metabolomics

STATISTICAL & METHODOLOGICAL TRAINING

Statistical knowledge of: structural equation modeling, classification and regression trees, confirmatory factor analysis, principal component analysis, discriminate analysis, multiple regression, logistic regression, missing data analysis (multiple imputations), survey weighting, bootstrapping, generalized linear models, clinical prediction modeling, inverse probability of treatment weighting, marginal structural modeling, genetic epidemiologic analysis, meta-analysis and meta-regression, mediation and moderation analysis

Ability to use statistical programs: SAS, STATA, R, SPSS, PLINK

Updated: October 2022

