

# Stanford

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## Dayoon Kwon

Postdoctoral Scholar, Epidemiology

### Bio

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#### BIO

I am an environmental epidemiologist leveraging multi-omics to study how environmental exposures influence human health across the life course. At Stanford, I develop epigenetic biomarkers and aging clocks to capture the impact of early-life exposures. During my PhD at UCLA, I investigated air pollution and Parkinson's disease, focusing on gene–environment interactions and metabolomics. Previously at Columbia, I quantified biological aging using blood-based biomarkers.

#### STANFORD ADVISORS

- Andres Cardenas, Postdoctoral Faculty Sponsor

#### LINKS

- Publications: <https://scholar.google.com/citations?user=5L9djqsAAAAJ&hl=en>
- Personal Website: <https://www.dayoonkwon.com/>
- Cardenas Lab: <https://med.stanford.edu/cardenas-lab.html>

### Publications

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#### PUBLICATIONS

- **Untargeted serum metabolomics and air pollution in Parkinson's disease.** *NPJ Parkinson's disease*  
Kwon, D., Paul, K. C., Lin, Y., Thordarson, D. N., Wu, J., Su, J., Jones, D. P., Bronstein, J. M., Ritz, B.  
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- **Traffic-related air toxics and Parkinson's disease in California's Central Valley.** *The Science of the total environment*  
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- **Untargeted serum metabolomics and air pollution in Parkinson's disease.** *Research square*  
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- **Integration of the serum metabolome and gut microbiome underscores the importance of altered lipid metabolism and potential immune modulation in Parkinson's Disease.** *Brain disorders (Amsterdam, Netherlands)*  
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- **Pregnancy and breastfeeding are associated with less later-life cognitive decline in a longitudinal, prospective cohort.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*  
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- **Of scents and cytokines: How olfactory and food aversions relate to nausea and immunomodulation in early pregnancy.** *Evolution, medicine, and public health*  
Kwon, D., Fessler, D. M., Knorr, D. A., Wiley, K. S., Sartori, J., Coall, D. A., Fox, M. M.  
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- **Challenges in studying air pollution to neurodegenerative diseases.** *Environmental research*  
Kwon, D., Paul, K. C., O'Sharkey, K., Paik, S. A., Yu, Y., Bronstein, J. M., Ritz, B.  
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- **Interaction Between Traffic-Related Air Pollution and Parkinson Disease Polygenic Risk Score.** *JAMA network open*  
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- **Regulatory T-Cells During Pregnancy Relate to Women's Own Childhood History of Microbial Exposure.** *American journal of human biology : the official journal of the Human Biology Council*  
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- **Women's history of pregnancy and breastfeeding are positively associated with postmenopausal cognitive function**  
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- **Author Reply - Letter to the Editor "Regulatory T-cell phenotypes in prenatal psychological distress"** *BRAIN BEHAVIOR AND IMMUNITY*  
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● **How prenatal cortisol levels relate to grandmother-mother relationships among a cohort of Latina women.** *American journal of human biology : the official journal of the Human Biology Council*

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● **Association between pica during pregnancy and inflammation in Latina women**

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● **Association between pica during pregnancy and inflammation in Latina women**

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● **Mothers' prenatal stress and anxiety are associated with impaired immunoregulation**

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● **Testing Black-White Disparities in Biological Aging Among Older Adults in the United States: Analysis of DNA-Methylation and Blood-Chemistry Methods.** *American journal of epidemiology*

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