Stanford



Javier Perez-Garcia

Postdoctoral Scholar, Epidemiology

Bio

BIO

Javier Perez-Garcia is a postdoctoral scholar in the Department of Epidemiology and Population Health at Stanford University. His research has been focused on the integration of multi-omic data (e.g., genomics, epigenomics, transcriptomics, and microbiome) to identify potential biomarkers of treatment response for complex diseases like asthma. His research background includes experience both in molecular biology techniques (e.g., DNA extraction and sequencing libraries preparation) and bioinformatic analyses (e.g., processing of raw omic data, association studies at genomic scale, or multi-omic integration through machine learning and quantitative trait loci analyses). He holds a Ph.D. in Health Sciences and a B.Sc. in Pharmacy from the University of La Laguna (Spain).

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- David Bates Award 2025, American Thoracic Society (ATS) (2025)
- IMFAHE's Excellence Fellowship, International Mentoring Foundation For the Advancement of Higher Education (2021)
- Excellence award for academic performance of graduates in Health Sciences, University of La Laguna (2020)
- Extraordinary award for academic performance in the BSc of Pharmacy, University of La Laguna (2019)
- Award for undergraduate students in Health Sciences, Fundacion Privada P. i P. Pizarroso and University of La Laguna (2016 and 2018)

PROFESSIONAL EDUCATION

- Doctor of Philosophy (PhD), University of La Laguna , Health Sciences (2023)
- Bachelor of Science (BSc), University of La Laguna , Pharmacy (2019)

STANFORD ADVISORS

- Andres Cardenas, Postdoctoral Faculty Sponsor

LINKS

- NCBI Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/javier.perez%20garcia.1/bibliography/public/
- X (Twitter): https://x.com/javier_pg96
- LinkedIn: https://es.linkedin.com/in/javier-perez-garcia-853071250
- Google Scholar: https://scholar.google.es/citations?user=L26RLC4AAAAJ&hl=es
- Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=57215905983

- ResearchGate: https://www.researchgate.net/profile/Javier-Perez-Garcia-2

Research & Scholarship

LAB AFFILIATIONS

- Andres Cardenas, Cardenas Lab (9/1/2024)

Publications

PUBLICATIONS

- **Multi-Ancestry Epigenome-Wide Association Study of Asthma Exacerbations.** *Allergy*
  Martin-Gonzalez, E., Perez-Garcia, J., Martin-Almeida, M., Witonsky, J., Eng, C., Huntsman, S., Hu, D., Lorenzo-Diaz, F., Gonzalez-Perez, R., Hernandez-Perez, J. M., Poza-Guedes, P., Sardon-Prado, O., Sanchez-Machin, et al
  2025

- **Epigenetic Age among U.S. Adults with Chronic Respiratory Diseases: Results from NHANES 1999-2002.** *The European respiratory journal*
  Perez-Garcia, J., Khodasevich, D., De Matteis, S., Rice, M. B., Needham, B. L., Rehkopf, D. H., Cardenas, A.
  2025

- **Genome-wide Association Study of Asthma Exacerbations in the Spanish Population.** *Archivos de bronconeumologia*
  Martin-Gonzalez, E., Perez-Garcia, J., Martin-Almeida, M., Hernandez-Perez, J. M., Gonzalez-Perez, R., Sardon, O., Perez-Perez, J. A., Gonzalez-Carracedo, M. A., Poza-Guedes, P., Sanchez-Machin, I., Mederos-Luis, E., Corcuera, P., Lopez-Fernandez, et al
  2025

- **Impact of Saharan Dust and SERPINA1 Gene Variants on Bacterial/Fungal Balance in Asthma Patients** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
  Escuela-Escobar, A., Perez-Garcia, J., Martin-Gonzalez, E., Martin, C., Hernandez-Perez, J. M., Perez, R., Machin, I., Guedes, P., Mederos-Luis, E., Pino-Yanes, M., Lorenzo-Diaz, F., Carracedo, M., Perez, et al
  2025; 26 (5)

- **Epigenome-Wide Association Study of Asthma Exacerbations in Europeans** *ALLERGY*
  Martin-Gonzalez, E., Perez-Garcia, J., Herrera-Luis, E., Martin-Almeida, M., Kebede-Merid, S., Hernandez-Pacheco, N., Lorenzo-Diaz, F., Gonzalez-Perez, R., Sardon, O., Hernandez-Perez, J. M., Poza-Guedes, P., Sanchez-Machin, I., Mederos-Luis, et al
  2025

- **Precision Medicine for Asthma Treatment: Unlocking the Potential of the Epigenome and Microbiome.** *The Journal of allergy and clinical immunology*
  Perez-Garcia, J., Cardenas, A., Lorenzo-Diaz, F., Pino-Yanes, M.
  2024

- **Reply.** *The Journal of allergy and clinical immunology*
  Perez-Garcia, J., Pino-Yanes, M., Lorenzo-Diaz, F.
  2023; 152 (6): 1683-1685

- **Epigenomic response to albuterol treatment in asthma-relevant airway epithelial cells.** *Clinical epigenetics*
  Perez-Garcia, J., Pino-Yanes, M., Plender, E. G., Everman, J. L., Eng, C., Jackson, N. D., Moore, C. M., Beckman, K. B., Medina, V., Sharma, S., Winnica, D. E., Holguin, F., Rodríguez-Santana, et al
  2023; 15 (1): 156

- **Human genetics influences microbiome composition involved in asthma exacerbations despite inhaled corticosteroid treatment.** *The Journal of allergy and clinical immunology*
  Perez-Garcia, J., Espuela-Ortiz, A., Hernández-Pérez, J. M., González-Pérez, R., Poza-Guedes, P., Martin-Gonzalez, E., Eng, C., Sardón-Prado, O., Mederos-Luis, E., Corcuera-Elosegui, P., Sánchez-Machín, I., Korta-Murua, J., Villar, et al
  2023; 152 (3): 799-806.e6

- **Multi-omic approach associates blood methylome with bronchodilator drug response in pediatric asthma.** *The Journal of allergy and clinical immunology*
  Perez-Garcia, J., Herrera-Luis, E., Li, A., Mak, A. C., Huntsman, S., Oh, S. S., Elhawary, J. R., Eng, C., Beckman, K. B., Hu, D., Lorenzo-Diaz, F., Lenoir, M. A., Rodriguez-Santana, et al

2023; 151 (6): 1503-1512

- **Alpha-1 antitrypsin deficiency and Pi*S and Pi*Z SERPINA1 variants are associated with asthma exacerbations.** *Pulmonology*
  Martín-González, E., Hernández-Pérez, J. M., Pérez, J. A., Pérez-García, J., Herrera-Luis, E., González-Pérez, R., González-González, O., Mederos-Luis, E., Sánchez-Machín, I., Poza-Guedes, P., Sardón, O., Corcuera, P., Cruz, et al
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- **The upper-airway microbiome as a biomarker of asthma exacerbations despite inhaled corticosteroid treatment.** *The Journal of allergy and clinical immunology*
  Perez-Garcia, J., González-Carracedo, M., Espuela-Ortiz, A., Hernández-Pérez, J. M., González-Pérez, R., Sardón-Prado, O., Martin-Gonzalez, E., Mederos-Luis, E., Poza-Guedes, P., Corcuera-Elosegui, P., Callero, A., Sánchez-Machín, I., Korta-Murua, et al
  2023; 151 (3): 706-715
- **Admixture mapping of severe asthma exacerbations in Hispanic/Latino children and youth.** *Thorax*
  Herrera-Luis, E., Mak, A. C., Perez-Garcia, J., Martin-Gonzalez, E., Eng, C., Beckman, K. B., Huntsman, S., Hu, D., González-Pérez, R., Hernández-Pérez, J. M., Mederos-Luis, E., Sio, Y. Y., Poza-Guedes, et al
  2023; 78 (3): 233-241
- **Epigenome-Wide Association Studies of the Fractional Exhaled Nitric Oxide and Bronchodilator Drug Response in Moderate-to-Severe Pediatric Asthma.** *Biomedicines*
  Martin-Almeida, M., Perez-Garcia, J., Herrera-Luis, E., Rosa-Baez, C., Gorenjak, M., Neerincx, A. H., Sardón-Prado, O., Toncheva, A. A., Harner, S., Wolff, C., Brandstetter, S., Valletta, E., Abdel-Aziz, et al
  2023; 11 (3)
- **Novel insights into the biological pathways involved in severe asthma.** *Respirology (Carlton, Vic.)*
  Perez-Garcia, J., Pino-Yanes, M.
  2022; 27 (9): 680-681
- **Association of bronchial steroid inducible methylation quantitative trait loci with asthma and chronic obstructive pulmonary disease treatment response.** *Clinical and translational allergy*
  Slob, E. M., Faiz, A., van Nijnatten, J., Vijverberg, S. J., Longo, C., Kutlu, M., Chew, F. T., Sio, Y. Y., Herrera-Luis, E., Espuela-Ortiz, A., Perez-Garcia, J., Pino-Yanes, M., Burchard, et al
  2022; 12 (8): e12173
- **Multi-ancestry genome-wide association study of asthma exacerbations.** *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*
  Herrera-Luis, E., Ortega, V. E., Ampleford, E. J., Sio, Y. Y., Granell, R., de Roos, E., Terzikhan, N., Vergara, E. E., Hernandez-Pacheco, N., Perez-Garcia, J., Martin-Gonzalez, E., Lorenzo-Diaz, F., Hashimoto, et al
  2022; 33 (6): e13802
- **Multiomics analysis identifies BIRC3 as a novel glucocorticoid response-associated gene.** *The Journal of allergy and clinical immunology*
  Kan, M., Diwadkar, A. R., Shuai, H., Joo, J., Wang, A. L., Ong, M. S., Sordillo, J. E., Iribarren, C., Lu, M. X., Hernandez-Pacheco, N., Perez-Garcia, J., Gorenjak, M., Potočnik, et al
  2022; 149 (6): 1981-1991
- **Epigenome-wide association study of lung function in Latino children and youth with asthma.** *Clinical epigenetics*
  Herrera-Luis, E., Li, A., Mak, A. C., Perez-Garcia, J., Elhawary, J. R., Oh, S. S., Hu, D., Eng, C., Keys, K. L., Huntsman, S., Beckman, K. B., Borrell, L. N., Rodriguez-Santana, et al
  2022; 14 (1): 9
- **Genome-wide association studies of exacerbations in children using long-acting beta2-agonists.** *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*
  Slob, E. M., Richards, L. B., Vijverberg, S. J., Longo, C., Koppelman, G. H., Pijnenburg, M. W., Bel, E. H., Neerincx, A. H., Herrera Luis, E., Perez-Garcia, J., Tim Chew, F., Yie Sio, Y., Andiappan, et al
  2021; 32 (6): 1197-1207
- **A System Pharmacology Multi-Omics Approach toward Uncontrolled Pediatric Asthma.** *Journal of personalized medicine*
  Abdel-Aziz, M. I., Neerincx, A. H., Vijverberg, S. J., Hashimoto, S., Brinkman, P., Gorenjak, M., Toncheva, A. A., Harner, S., Brandstetter, S., Wolff, C., Perez-Garcia, J., Hedman, A. M., Almqvist, et al
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- **Genome-wide association study of asthma exacerbations despite inhaled corticosteroid use.** *The European respiratory journal*

Hernandez-Pacheco, N., Vijverberg, S. J., Herrera-Luis, E., Li, J., Sio, Y. Y., Granell, R., Corrales, A., Maroteau, C., Lethem, R., Perez-Garcia, J., Farzan, N., Repnik, K., Gorenjak, et al
2021; 57 (5)

- **The Genomics and Metagenomics of Asthma Severity (GEMAS) Study: Rationale and Design.** *Journal of personalized medicine*
  Perez-Garcia, J., Hernández-Pérez, J. M., González-Pérez, R., Sardón, O., Martin-Gonzalez, E., Espuela-Ortiz, A., Mederos-Luis, E., Callero, A., Herrera-Luis, E., Corcuera, P., Sánchez-Machín, I., Poza-Guedes, P., González García, et al
  2020; 10 (3)

- **Precision Medicine in Childhood Asthma: Omic Studies of Treatment Response.** *International journal of molecular sciences*
  Perez-Garcia, J., Herrera-Luis, E., Lorenzo-Diaz, F., González, M., Sardón, O., Villar, J., Pino-Yanes, M.
  2020; 21 (8)

- **Pharmacogenetics of Pediatric Asthma: Current Perspectives.** *Pharmacogenomics and personalized medicine*
  Perez-Garcia, J., Espuela-Ortiz, A., Lorenzo-Diaz, F., Pino-Yanes, M.
  2020; 13: 89-103