

## WENJIE ZENG

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### Education

Doctor of Philosophy in Epidemiology	University of Florida	2019/08-2024/05(expected)
Master of Public Health	Emory University	2013/08-2015/08
Doctor of Medicine	Xiang-Ya School of Medicine	2004/09-2012/06

### Research Experience

*Graduate Research Assistant, Department of Epidemiology, University of Florida* 08/2019-Present

- Investigated the relationship between human lipidome and various chronic diseases, such as chronic kidney disease, hypertension, and cardiovascular disease, in a large (n~2,000) longitudinal cohort of American Indians.
- Designed the analytical pipeline and leveraged clinical, laboratory, and diagnostic variables to construct a novel classification criterion for Childhood Sjögren's Disease.
- Analyzing and integrating single-cell RNA-seq and bulk RNA-seq for the discovery of novel biomarkers and therapeutic targets for Childhood Sjögren's Disease.
- Utilizing machine learning and causal inference methods to assess the impact of COVID-19 on people with disability in a large nationally representative cohort (n~6,000) of the longitudinal Health and Retirement Study (HRS).
- Applying causal inference approaches to study the association between radiation therapy and the risk of perioperative transfusion, in a large cohort (n~15,000) of patients with pancreatic ductal adenocarcinoma (PDAC) from the National Surgical Quality Improvement Program (NSQIP).

*Research Intern, Cardiovascular Imaging and Biomechanics Core, Emory School of Medicine* 08/2015-08/2016

- Constructed three-dimensional coronary vessel models from coronary angiography to study the relationship between wall shear stress and endothelial function
- Recruited and interviewed patients for their enrollment in a double-blinded clinical trial to study the effects of ranolazine on angina symptoms, exercise tolerance, and coronary microvascular function.

### Certificate, Awards, and Professional Membership

- First place Graduate Student Presentation in Applied, Clinical, and Community Research, 36<sup>th</sup> Annual University of Florida College of Public Health and Health Professionals Research Day. 02/2023
- Member, American Public Health Association 06/2023-Present
- Epidemiology Chair's Travel Award 2022
- Curriculum Committee, Department of Epidemiology, University of Florida 2021-Present
- Educational Commission for Foreign Medical Graduates (ECFMG) Certificate 10/2016-

### Published Peer-Reviewed Publications (In reverse-chronological order)

1. **Zeng W**, Beyene HB, Kuokkanen M, Miao G, Magliano DJ, Umans JG, Franceschini N, Cole SA, Michailidis G, Lee ET, Howard BV, Fiehn O, Curran JE, Blangero J, Meikle PJ, Zhao J. Lipidomic profiling in the Strong Heart Study identified American Indians at risk of chronic kidney disease. *Kidney Int.* 2022 Jul 16:S0085-2538(22)00536-1. doi: 10.1016/j.kint.2022.06.023. Epub ahead of print. PMID: 35853479.
2. Mia G, Zhang Y, Huo Z, **Zeng W**, Zhu J, Umans JG, Wohlgemuth G, Pedrosa D, DeFelice B, Cole SA, Fretts AM, Lee ET, Howard BV, Fiehn O, Zhao J. Longitudinal plasma lipidome and risk for type 2 diabetes in a large sample of American Indians with normal fasting glucose: The Strong Heart Family Study. *Diabetes Care.* 2021 Dec;44(12):2664-2672. PMID: 34702783
3. Kumar A, Hung OY, Piccinelli M, Eshtehardi P, Corban MT, Sternheim D, Yang B, Lefieux A, Molony DS, Thompson EW, **Zeng W**, Bouchi Y, Gupta S, Hosseini H, Raad M, Ko YA, Liu C, McDaniel MC, Gogas BD, Douglas JS, Quyyumi AA, Giddens DP, Veneziani A, Samady H. Low Coronary Wall Shear Stress Is Associated With Severe Endothelial Dysfunction in Patients With Nonobstructive Coronary Artery Disease. *JACC Cardiovascular Intervention.* 2018, Oct 22; 11(20): 2072-2080. PMID: 30268874.
4. Ahn, S.G., Suh, J., Hung, O.Y., Lee, H.S., Bouchi, Y.H., **Zeng, W.**, Gandhi, R., Eshtehardi, P., Gogas, B.D., Samady, H. Discordance Between Fractional Flow Reserve and Coronary Flow Reserve. *JACC: Cardiovascular Intervention.* 2017, May; 10(10): 999-1007. PMID: 28521932.

### Manuscripts Under Review or In Preparation

1. **Zeng W**, Thatayatikom A, Winn N, Lovelace TC, Shah A, Schrepfer T, Bhattacharyya I, Gonik R, Benos PV, Cha S. A novel classification criterion for childhood Sjögren's disease developed by integrative analysis using machine learning and causal graph learning.

#### Peer-Reviewed Abstracts and Presentations

1. **Zeng W**, Jun I, Loach R, Stetten NE, Benos PV, Marlow NM. COVID-19 is associated with increased risk of new disability among U.S. older adults: A prospective analysis of the health and retirement study. Accepted to poster presentation at the American Public Health Association (APHA) 2023 meeting.
2. Thatayatikom A, **Zeng W**, Lovelace TC, Winn N, Shah A, Schrepfer T, Bhattacharyya I, Gonik R, Benos PV, Cha S. The Novel Florida Scoring System: A Machine Learning-Based Stratification of Clinical and Laboratory Features in Children with Suspected Sjögren's Disease. Accepted to poster presentation at the American College of Rheumatology (ACR) 2023 meeting.
3. **Zeng W**, Thatayatikom A, Lieberman S, Basiaga M, Stern S, Dizon B, Shah A, Beal CJ, Winn N, Schrepfer T, Bhattacharyya I, Benos PV, Cha S. The University of Florida Cohort with Childhood Sjögren's Disease Classified by the Latent Class Analysis. Presented at the 2022 International Symposium on Sjögren's Syndrome.
4. **Zeng W**, Miao G, Subedi P, Cole S, Umans JG, Franceschini N, Lee ET, Howard BV, Fiehn O, Zhao J. A Longitudinal Lipidomics Profiling for Risk of Chronic Kidney Disease In American Indians: The Strong Heart Family Study. Presented at the American Heart Association EPI|Lifestyle Scientific Sessions 2022
5. Chen M, Miao G, **Zeng W**, Roman MJ, Lee ET, Devereux RB, Howard BV, Fiehn O, Zhao J. Longitudinal Lipidomic Profiling of Left Ventricular Mass in American Indians: The Strong Heart Study. Presented at the American Heart Association EPI|Lifestyle Scientific Sessions 2022.
6. **Zeng W**, Miao G, Chen M, Zhang Y, Umans JG, Cole SA, Lee ET, Howard BV, Fiehn O, Zhao J. Longitudinal lipidomics profiling of risk for hypertension in American Indians: The Strong Heart Study. Presented at the American Heart Association Scientific Sessions 2021
7. **Zeng W**, Miao G, Chen M, Zhang Y, Umans JG, Cole SA, Lee ET, Howard BV, Fiehn O, Zhao J. Lipidomics profiling and risk for cardiovascular disease: a longitudinal study in American Indians. Presented at the American Heart Association Scientific Sessions 2021
8. Miao G, **Zeng W**, Roman MJ, Devereux RB, Zhang Y, Lee ET, Howard BV, Fiehn O, Zhao J. Lipidomics profiling of risk for subclinical atherosclerosis: a longitudinal study in American Indians in the Strong Heart Study. Presented at the American Heart Association Scientific Sessions 2021
9. Gogas BD, Koganti V, Bouchi YH, Molony DS, **Zeng W**, Hung OY, Sebaali F, Davis EL, Lee HS, Thompson EW, Joshi U, Maini M, Singhal E, Shin ES, Stankovic G, Otake H, Akasaka T, Escaned J, Kwon-Koo B, Nam CW, Veneziani A, Giddens DP, King SB, Samady H. Conformability and Wall Shear Stress Assessment Following Deployment of Resolute Integrity Zotarolimus-Eluting Stent and the XIENCE Xpedition Everolimus-Eluting Stent in Angulated Vessels: An Interim Analysis of the SHEAR-STENT Randomized Controlled Study. Presented at the Cardiovascular Research Technologies (CRT) meeting 2017
10. Eshtehardi, P., Hung, O.Y., Bouchi, Y.H., **Zeng, W.**, Corban, M.T., Gandhi, R., Hosseini, H., Gogas, B.D., Mehta, P.K., Shaw, L.J., Quyyumi, A.A., Samady, H. Patients with Coronary Microvascular Dysfunction Have High Plaque Burden and Diffuse Epicardial Atherosclerotic Disease on Intravascular Ultrasound. Presented at the American Heart Association Scientific Sessions 2016
11. Ahn, S.G., Hung, O.Y., Eshtehardi, P., Bouchi, Y.H., **Zeng, W.**, Suh, J., Gogas, B.D., Samady, H. Discordance Between Coronary Flow Reserve And Functional Flow Reserve: Insights From Coronary Plaque Burden and Epicardial And Microvascular Resistance Analysis. Presented at the American College of Cardiology meeting 2016
12. Eshtehardi, P., Hung, O.Y., Corban, M.T., Timmin, L.H., Molony, D.S., Ahn, S.G., Gogas, B.D., Bouchi, Y.H., **Zeng, W.**, Sebaali, F., Joshi, U., Suh, J., Giddens, D.P., Samady, H. Elevated Hyperemic Microvascular Resistance Is Associated with Lower Coronary Wall Shear Stress in Patients with Non-Obstructive Coronary Artery Disease. Presented at the American College of Cardiology meeting 2016