



SoPH Published or Accepted Articles

March – August 2025

Bachelor of Science

Papers

Published

Biostatistics & Data Science

Papers

Published

- **Bam, A.**, Hu, Y., **Wu, X.**, Luo, M., **Rizvi, N.**, Del Valle, L., Zea, AH, Hossain, F., **Danos, DM**, Zabaleta, J., Ochoa, A., Miele, L., **Trapido, E.**, and **Yu, Q.**, 2025, Differential miRNA Expressions Linking Environmental Risk Factors to Triple-Negative Breast Cancer Stages at Diagnosis. *Cancers*.
- Michael S. Block, **Donald Mercante**, Selective Serotonin Reuptake Inhibitors May Increase Implant Failure, *Journal of Oral and Maxillofacial Surgery*, Volume 83, Issue 5, 2025, Pages 585-591, ISSN 0278-2391
- N Chellamani, SA Albelwi, M Shanmuganathan, P Amirthalingam, **A Paul**, "Diabetes: Non-invasive blood glucose monitoring using federated learning with biosensor signals", *Biosensors* 15 (4), 255, April 2025
- N Chellamani, S A Albelwi, M Shanmuganathan, P Amirthalingam, E M Alharbi, H Q S Alatawi, K Prabahar, J B Aljabri, **APaul**, "A Deep Sparse Capsule Network for Non-

Invasive Blood Glucose Level Estimation Using a PPG Sensor" MDPI Sensors, March 2025.

- Two-sample bi-directional causality between two traits with some invalid IVs in both directions using GWAS summary statistics, **Chen, Siyi**, Human Genetics and Genomics Advances, Volume 6, Issue 3, 100449
- D Darlan, OS Ajani, **A Paul**, R Mallipeddi, "A multi-objective benchmark for UAV path planning with baseline results", Swarm and Evolutionary Computation 96, 101968, July 2025.
- **Dorsey, K, Rizvi, N, Mercante, D, Celestin Jr. MD, Tseng, S., and Yu, Q.***, 2025. Investigating Biomarkers Linking Tobacco Use With Cardiovascular Disease Occurrence. Accepted by Journal of the Louisiana Public Health Association.
- Robust and resilient hidden sequence decoding in noisy data with enhanced HMM and dynamic NN ensembles A Ganesan, **A Paul** International Journal of Data Science and Analytics, 1-19, July 2025.
- Harmon, AC, Carroll-Turpin, MA, Jennings, MH, Jelesijevic, T, Ebenezer, P, Aryal, A, **Yu, Q.**, Francis, J, and Dugas, TR, 2025. Environmental aromatic amine induces pulmonary arterial hypertension associated with estrogen signaling and Serpine1. Journal of Applied Toxicology. DOI: <https://doi.org/10.1002/jat.4758>.
- H Jarrell, A Akhtar, M Horowitz, Z Huang, Z Shi, **Zhide Fang**, X Li (2025). Change of spiny neuron structure in the basal ganglia song circuit and its regulation by miR-9 during song development. The Journal of Neuroscience, 06/2025, e2276232025.
- Basil Kuriachen , Rathinaraja Jeyaraj, Deepak Raphael, P. Ashok, P. Shanmuga Sundari , **Anand Paul**, " Defect detection in fused deposition modelling using lightweight convolutional neural networks", Engineering Application of Artificial Intelligence Vol. 41, February 2025.
- M. Mohamed Musthafa, P. Thangavel and **Anand Paul**, " QUANTUM CRYPTOGRAPHYWITH ESPRESSO CIPHERS AND GRAIN FOR ENHANCED SECURITY IN OPTICALCOMMUNICATION NETWORKS", ICTACT Journal on Communication Technology, Volume16, Issue 1, March 2025.
- Moreau N, **Mercante D**, et al. Power Training combined with Interval Treadmill Training to Improve Walking Activity in Youth with Cerebral Palsy, awarded best podium abstract submission for CSM 2025.
- JS Pemberton, **Zhide Fang**, SA Chalew, S Uday (2025). Ethnic Disparities in HbA1c and Hypoglycemia Among Youth with Type 1 Diabetes: Beyond Access to Technology, Social Deprivation and Mean Blood Glucose. British Medical Journal (BMJ) Open, Diabetes &Care, 01/2005, 13: e004369.

- **Rizvi, N.**, Hamilton, R., **Wu, X.C.**, **Celestin, M.D.**, **Tseng, T.**, and **Yu, Q.** 2025. Mediation Analysis to Investigate Differences in Prostate Cancer Diagnosis Stage Through Environmental Risk Factors in Louisiana. *Current Oncology*, 32(8):416. <https://doi.org/10.3390/curroncol32080416>.
- MG Robichaux, **Zhide Fang**, JN D'Souza M.D (2025). Antibiotic Stewardship in Pediatric Head and Neck Surgery. *International Journal of Pediatric Otorhinolaryngology*, 09/2025, Vol. 196, 112503.
- Shahrouz, Z.; Heller, J.; Qavi, S.; Zarrabi, R.; **Yu, Q.**, 2025. Do Intraoperative Infraorbital Nerve Blocks Improve Post-Rhinoplasty Pain Control? Accepted by The American Journal of Cosmetic Surgery.
- W Shoap, GA Crabill R Guillen, K Derouen, J Leoni, **Zhide Fang**, B Shammassian (2025). Surgical Versus Nonsurgical Management of Civilian Craniocerebral Gunshot Injuries. Available in SSRN: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5096125
- Richard Jiarui Tong, Haoyang Li, Sridhar Raghavan, Qingsong Wen, Shannon Gray, **Anand Paul**, Joleen Liang, Janusz Zalewski, Yacheng Yang, George Tambouratzis, Bong Chong Ang, "IEEE AI Standards for Agentic Systems", 2025 IEEE Conference on Artificial Intelligence (CAI), May 2025.
- **Vaidya, L.**, **Rizvi, N.**, **Wu, X.**, Maniscalco, L., **Yi, Y.**, Ochoa, A., and **Yu, Q.***, 2025. Differences in Covid-19 Deaths Amongst Cancer Patients and Possible Mediators for this Relationship. Accepted by Scientific Reports.
- Xia, T; Nianogo, RA; **Yu, Q.**; Horwich, TB; Srikanthan, P.; Inoue, K.; Allison, M.; Zhang, ZF; Watson, K; Chen, L., 2025. Racial disparities of type 2 diabetes through exercise: The Multi-Ethnic Study of Atherosclerosis To be published in: *American Journal of Preventive Medicine*. Accepted by American Journal of Preventive Medicine. DOI:<https://doi.org/10.1016/j.amepre.2025.01.009>

Publication accepted pending revision

- **Joonha Chang**, Wenyaw Chan*. Latent Classification of Time-Dependent Transition Rates in Longitudinal Binary Outcome Data. *Statistical Methods in Medical Research*. (Revision Submitted)

Community Health Science & Policy

Papers

Published

- Bam, A., Hu, Y., **Wu, X.**, Luo, M., Rizvi, N., Del Valle, L., Zea, A. H., Hossain, F., **Danos, D. M.**, Zabaleta, J., Ochoa, A., Miele, L., **Trapido, E.**, & **Yu, Q.** (2025). Differential miRNA Expressions Linking Environmental Risk Factors to Triple-Negative Breast Cancer Stages at Diagnosis. *Cancers*, 17(16), 2618. <https://doi.org/10.3390/cancers17162618>
- Fong, Zhi Ven MD, MPH, DrPH*; Wall-Wieler, Elizabeth PhD†; Johnson, Shaneeta MD‡,§; **Culbertson, Richard** PhD||; Mitzman, Brian MD, MS¶, # (2025) Rates of Minimally Invasive Surgery After Introduction of Robotic-Assisted Surgery for Common General Surgery Operations. *Annals of Surgery Open*. Available https://journals.lww.com/aosopen/fulltext/2025/03000/rates_of_minimally_invasive_surgery_after.11.aspx
- **Glick JL**, Nguyen MG, Huang AK, Alexander KA, German D (2025) Mental health and the role of social support in the lives of vulnerabilized sexual minority women. *PLoS One* 20(5): e0323869. <https://doi.org/10.1371/journal.pone.0323869>
- **Glick, J., Zhang, L.**, Huang, A., Nguyen, M. & German, D. Qualitative insights into drug use safety strategies and social support among sexual minority women who inject drugs in Baltimore, Maryland, *Harm Reduction Journal* volume 22, No: 118 (2025) <https://harmreductionjournal.biomedcentral.com/articles/10.1186/s12954-025-01257-1>
- Khoury HB, Sugarman OK, Armstrong A, Reilly B, **Wennerstrom A.** Caring for the incarcerated patient: Provider perceptions of quality of care in the state of Louisiana. *Journal of the Louisiana Public Health Association*. 2025; 5(1):37-49.
- Araujo Junior, et al., **Glick, JL**, Kendall, C, Kerr, L. PREVALÊNCIA E FATORES ASSOCIADOS A SÍFILIS ENTRE ADOLESCENTES HOMENS QUE FAZEM SEXO COM HOMENS EM DUAS CAPITAIS BRASILEIRAS. *Cien Saude Colet* [periódico na internet] (2025/jun). [Citado em 05/08/2025]. Está disponível em: <http://cienciaesaudecoletiva.com.br/artigos/prevalenciae-fatores-associados-a-sifilis-entre-adolescentes-homens-que-fazem-sexo-com-homens-em-duas-capitaisbrasileiras/19650?id=19650&id=19650>
- Gill K, Benipal J, Ferral H, Knecht K, **Leonardi C**, Fairchild AH, Ustunsoz B, Laney DF 4th, Hunt J, Schoen JE, Marr A, Greiffenstein P, Stuke L, Smith AA. Surveillance of Posttraumatic Abdominal Pseudoaneurysms. *Am Surg*. 2025 Jul 27:31348251363534. doi: 10.1177/00031348251363534. Epub ahead of print. PMID: 40717035.
- Lane, B., Sabuncu, C., Yang, Y., Okantey, B., Campbell, D. N., **Bryant, T.**, Sorkpor, S., Millender, E., Wong, F., & Xavier Hall, C. (2025, April). Discrimination and mental

health among Black and Latino people living with HIV: Understanding the role of religion and spirituality. *AIDS and Behavior*. <https://doi.org/10.1007/s10461-025-04720-z>

- Neil, J. M., Mercaldo, N. D., Tiersma, K., Nelson, Z., Lee, A., Ballini, L., **Mao, B.**, Shao, R., Irwin, K., Carlos, R. C., Park, E. R., & Flores, E. J. (2025). Co-development, evaluation, and dissemination of a lung cancer screening digital outreach intervention: A multiphase randomized clinical trial. *Journal of the American College of Radiology*.
- Rajendra R, Bratton MB, **Leonardi C**, Clement RC. Adolescent scoliosis in autism spectrum disorder: is it idiopathic or syndromic?? *J Orthop Surg Res*. 2025 Jun 9;20(1):577. doi: 10.1186/s13018-025-05816-x. PMID: 40490763; PMCID: PMC12147319.
- Elizabeth A. Rohan, PhD, MSW1; Julie S. Townsend, MS1; Andrea Torres, PhD, MPH1; Hope L. Thompson, PhD, MPH1,2; Dawn M. Holman, MPH1; Avid Reza, MD, MPH1; Felicia Solomon Tharpe, MPH1; Erin Caple, CHW3; **Ashley Wennerstrom, PhD, MPH4**. Public Understanding of and Engagement with Community Health Workers and Promotores de Salud: Findings from Two National Surveys. *CDC* (2025). [Public Understanding of and Engagement With Community Health Workers and Promotores de Salud: Findings From Two National Surveys](#)
- Fitzpatrick-Schmidt T, Dasa V, **Leonardi C**, **Ferguson TF**, Welsh DA, Molina PE, Ronis MJJ, Edwards S. Intersection of alcohol use, pain symptoms, and negative affect in total knee arthroplasty patients and people with HIV. *J Pain*. 2025 May 20; 32:105446. doi: 10.1016/j.jpain.2025.105446. Epub ahead of print. PMID: 40403859.
- **Tseng, T.**, Li, C, **Lin, H**, **Witmeier, K.**, Zeng, C., Chieu, Y, **Celestin, M.** & **Trapido, E.** (2025) Multi-level factors associated with low dose computed tomography lung cancer screening in the United States. *Journal of the National Medical Association*. 12:6.

Accepted/In-press

- Albaugh, V.L., Corpodean, F., Kachmar, M., **Danos, D. M.**, Schauer, P.R. (2025) Diabetes Status and Not Preoperative Glycemic Control is Associated with Postoperative Outcomes in Metabolic/Bariatric Surgery. *Surgery for Obesity and Related Diseases*. In Press.
- Huang CK, Chen, H., Li, XJ., Ting PS, Wu, S., Feng, XM., Nisar, A., **Lin HY**, **Tseng TS.**, Yin, XM. Bay, A., Schechner, LH., Bai, X.: Liver TET1 promotes metabolic

dysfunction-associated steatotic liver disease. EMBO Molecular Medicine (Accepted) IF=11.2

- Gallivan, K.M., Ondrak, K.S., **Danos, D.M.**, Luo, M., Taylor, C.M., Meyer, L.E., Byerley, A.M., Nguyen, A.W., Chatterjee, S., Adamec, J., Byerley, L.O. (2025). Dietary Protein's Effect on the Gut Microbiome and Its Metabolites: Protocol Description and Virtual Recruitment Efforts for a Remote Randomized Controlled Trial. Gut Microbiome. In Press.
- Ivanko, A., Miles, M.V., Schoen, J.E., Lacy, E., Kearns, R., Flores, C., **Danos, D. M.**, Carter, J. (2025). Empowering Emergency Responders to Treat on Scene Alleviates Hospital Strain During Disaster Events. Journal of Burn Care and Research. In press.

Environmental Health, Climate and Sustainability

Papers

Published

- Sitzman, A., V.M. Brown, and **B.D. Keim**. Heavy Rainfall and New Orleans Neutral Ground Parking Decisions. In Press. Urban Water Journal.
- Stoner H, **Rango TG**, Kodsup A. 2025. Health Risk Assessment of Heavy Metal(loid)s Intake from Beverages in the United States. Journal of Food Composition and Analysis. 2025, 107632.

Publications in Preparation

- Brown, V.M., B.B. DeFee II, D.T. Thompson, M.J. Osland, S.I. Simson, and **B.D. Keim**. Tropicalization of the temperate zone: warming winter temperatures and fewer freeze days across the conterminous United States. Revision underway for Environmental Research: Climate.
- Crawford, J., O. Tarrago, and **A. Katner**. The adverse health effects of lead in adults. Invited paper. JAMA.

Epidemiology & Population Health

Papers

Published

- Hymel E, Peters ES, Ratnapradipa KL, Zheng C, Alliaon J, **Hsieh M-C**, Nash A, Watanabe-Galloway S. Area deprivation and pediatric cancer mortality: An analysis of 2000-2020 state cancer registry data. Accepted by Epidemiology, Biomarkers & Prevention on July 15, 2025.
- Gonzalez GV, **Danos DM**, **Ferguson T**, **Hsieh M-C**, Therapondos G, **Leonardi C**. Clinical risk Factors for Hepatocellular Carcinoma in Southeast Louisiana: A Case-control Study. Cancer Causes & Control. 2025 June 27.
<https://doi.org/10.1007/s10552-025-02021-3>. PMID: 40579626
- Tao J, Shing JZ, Yu K, Kreimer AR, **Hsieh M-C**, Pawlish K, Li J, Qiao B, Engels EA. Spectrum of Cancer Risk in Asian American and Pacific Islander Solid Organ Transplant Recipients. JNCI. Published online on March 18, 2025.
<https://doi.org/10.1093/jnci/djaf069>
- Mukund K, Veraksa D, Frankhouser D, Yang L, Tomsic J, Pillai R, Atti S, Mesrizadeh Z, Schmolze D, **Wu XC**, LeBlanc MA, Miele L, Ochoa A, Seewaldt V, Subramaniam S. Spatially distinct cellular and molecular landscapes define prognosis in triple negative breast cancer. bioRxiv [Preprint]. 2025 Feb 12:2025.02.10.637503. doi:10.1101/2025.02.10.637503. PMID: 39990419; PMCID: PMC11844391.
- Vaidya L, Rizvi N, **Wu XC**, **Maniscalco LS**, **Yi Y**, Ochoa A, **Yu Q**. Differences in Covid-19 deaths amongst cancer patients and possible mediators for this relationship. Sci Rep. 2025 Mar 26;15(1):10407. doi: 10.1038/s41598-025-95037-3. PMID: 40140499.
- **Shrestha P**, **Yu Q**, Peters ES, **Trapido E**, **Hsieh MC**, **Ferguson T**, Chu QD, **Wu XC**. Socioeconomic Disparities in Breast Cancer Survival: Examining Potential Mediator Role of Oncotype DX(ODX) Test and Stage at Diagnosis Among HR+/HER2- Breast Cancer Women. Cancers (Basel). 2025 May 28;17(11):1802. doi: 10.3390/cancers17111802. PMID: 40507283; PMCID: PMC12153767.
- Luo Q, Horner MJ, Haas CB, McGee-Avila JK, Pfeiffer RM, Engels EA, Pawlish K, Monterosso A, Riedel DJ, **Wu XC**, Gonsalves L, Speers S, Cohen C, Shiels MS. Differences in Trends in Cancer Incidence Rates Among People With HIV During 2001-2019 by Race and Ethnicity and by Risk Group in the United States. Clin Infect Dis. 2025 Jul 18;80(6):1355-1364. doi: 10.1093/cid/ciae555. PMID: 39509333.
- Rizvi, N., Hamilton, R., **Wu, X-C.**, **Celestin, M. D., Jr.**, **Tseng, T-S.**, & **Yu, Q.** (2025, July 24). Mediation Analysis to Investigate Differences in Prostate Cancer Diagnosis

Stage Through Environmental Risk Factors in Louisiana. Current Oncology, 32(8), 416. <https://doi.org/10.3390/curroncol32080416>.

- Gunaldo T, Witmeier K, Mazumder H, Duffy S, Baudoin C, Sauviac H, **Straif-Bourgeois S**, Edwards S, (2025): Analysis of interprofessional education perceptions at the team level: A study across three student cohorts, Journal of Interprofessional Education & Practice, <https://doi.org/10.1016/j.xjep.2025.100741>.
- Jordan Tschida, Mayanka Chandrashekar, Alina Peluso, Zachary Fox, Patrycja Krawczuk, Dakota Murdock, **Xiao-Cheng Wu**, John Gounley, Heidi A Hanson, Evaluating algorithmic bias on biomarker classification of breast cancer pathology reports, JAMIA Open, Volume 8, Issue 3, June 2025, ooaf033, <https://doi.org/10.1093/jamiaopen/ooaf033>