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Denise Danos, PhD

PERSONAL STATEMENT

I am an Assistant Professor of Research in Behavioral and Community Health Sciences with experience in both academic and government sectors. My focus is experimental design and data analysis in observational human subjects' research, with expertise in large scale data collection and consolidation, generalized linear models, and multilevel models. As an academic researcher, I have focused on leveraging contemporary population-based data sources and applied statistical methodology to further the understanding of area-based social determinants of health disparities. In addition to public health research, I collaborate with the School of Medicine, providing statistical support for research. In this role, I consult with surgeons regarding study design, power and sample size calculation, statistical analyses and dissemination of results. I am proficient in SAS and R statistical software.

EDUCATION AND TRAINING

2019	Postdoctoral Fellowship Stanley S. Scott Cancer Center, New Orleans, LA
2016	Doctor of Philosophy, Biostatistics Louisiana State University Health Sciences Center, New Orleans, LA
2007	Master of Applied Statistics Louisiana State University, Baton Rouge, LA
2004	Bachelor of Science, Mathematics Louisiana State University, Baton Rouge, LA

PROFESSIONAL EXPERIENCE

2019 - Present	Assistant Professor
	Behavioral and Community Health Sciences, School of Public Health
	Louisiana State University Health Sciences Center, New Orleans, LA
2016-2019	Postdoctoral Research Fellow
	Stanley S. Scott Cancer Center, School of Medicine
	Louisiana State University Health Sciences Center, New Orleans, LA
2010-2015	Graduate Research Assistant
	Biostatistics, School of Public Health
	Louisiana State University Health Sciences Center, New Orleans, LA
2007-2011	Statistical Analyst
	IEM Inc.
	Baton Rouge, LA

ACADEMIC TEACHING AND MENTORING

Advanced Methods in Epidemiology – Multilevel Analysis	2019-2023
PhD Committee Memberships -	
Malesa Pereira, Behavioral and Community Health Sciences	2022-present
Perceived financial hardship, perceived social support, and	
caregiver burdens among caregivers of young cancer patients.	
Kara Denstel, Behavioral and Community Health Sciences	2019-present
Neighborhood-based chronic stress exposures, adiposity, and	
cardiometabolic disease risk among U.S. adolescents.	
Kaylin Beiter, Behavioral and Community Health Sciences	2019-2021
The COVID-19 pandemic, community violence, and PTSD in Louisiana.	
Summer Research Internship Programs -	
Casey Martinez and Alia Fleury, Undergraduate	2022
The Robert A. Winn Clinical Investigator Pipeline Program	
Trends Amongst Louisiana Adolescent and Young Adult Oncology Pati	ents
Janusz Wojcik, Undergraduate (Third Place Award)	2021
LSUHSC High School & Undergraduate Summer Research Program	
Multilevel Analysis of Clinical, Physician, and Patient Barriers to	
Enrollment in the Gulf South Clinical Trial Network.	
Jordyn Simpson, Undergraduate	2021
LSUHSC High School & Undergraduate Summer Research Program	
Social determinants of clinical trial enrollment in the Gulf South Clinic	al Trials Network
Ryan Hoffman, Medical Student (Third Place Award)	2020
LSUHSC Medical Student Summer Research Symposium	
National health disparities in incisional hernia repair outcomes	
Shaeera Rahman, Undergraduate	2020
LSUHSC High School & Undergraduate Summer Research Program	
Clinical risk factors for Hepatocellular Carcinoma: A case-control	
study in Southeast Louisiana.	
Shaeera Rahman, High School (First Place Award)	2019
LSUHSC High School & Undergraduate Summer Research Program	
Neighborhood Concentrated Disadvantage and Smoking among	
Young Adults in Greater New Orleans	

ACADEMIC SERVICE

2022-2023 Team Up Interprofessional Educational Program Team Evaluator

2022 Graduate Research Day Judge

2022 Summer Research Symposium Judge

2019 Graduate Research Day Judge

PROFESSIONAL MEMBERSHIPS

American Statistical Association American Association for Cancer Research

HOMELAND SECURITY CONSULTING

Louisiana Marine Debris Removal Program,

Louisiana Department of Natural Resources

Improvised Explosive Device Detection Study,

US Department of Defense

Catastrophic Planning: New Madrid Seismic Zone

Federal Emergency Management Agency, US Department of Homeland Security

Catastrophic Planning: Florida Hurricane

Federal Emergency Management Agency, US Department of Homeland Security

Evacuee Support Planning

Federal Emergency Management Agency, US Department of Homeland Security

US Chemical Stockpile Emergency Planning Surveys

US Department of Homeland Security

Traffic Study

North Carolina Department of Transportation

Evacuation Time Study

American Exploration and Mining Association

PUBLIC HEALTH PRACTICE

1. Afaneh, H., Danos, D., Whiting, W., Gonzalez, G., Dupre, B., Phillippi, S. (2022) *Center for Evidence to Practice: Mental Health Crisis Response System Workforce & Training Development Mid-Year Report 2022.* Louisiana State University Health Sciences Center-School of Public Health. New Orleans, La.

RESEARCH ACTIVITES

Peer Reviewed Publications

1. Mikhail AR, Williams RA, Son LS, et al. Total Parathyroidectomy Without Autotransplantation for ESRD Patients with Secondary Hyperparathyroidism; an Effective Alternative [published online ahead of print, 2022 Dec 27]. Am Surg. 2022;31348221148364. doi:10.1177/00031348221148364

- 2. Billiot AA, Danos DM, Stevens J, Vance KM, Raven MC, Lyons JM 3rd. Palliative care reduces emergency room visits and total hospital days among patients with metastatic HPB and GI cancers. Sci Rep. 2022;12(1):21068. Published 2022 Dec 6. doi:10.1038/s41598-022-23928-w
- 3. Adepoju L, Danos D, Green C, Cook MW, Schauer PR, Albaugh VL. Effect of high-risk factors on postoperative major adverse cardiovascular and cerebrovascular events trends following bariatric surgery in the United States from 2012 to 2019. Surg Obes Relat Dis. 2022; S1550-7289(22)00642-6. doi:10.1016/j.soard.2022.08.014
- 4. Moreci R, Danos DM, Zagory JA, Smith A, Stuke LE. Initiation of the Virtual Interview: A 5-Y Evaluation of General Surgery Residency Match Results. J Surg Res vol. 282 (2023): 225-231. doi:10.1016/j.jss.2022.10.006
- 5. Beiter K, Danos D, Conrad E, et al. The COVID-19 pandemic and associated increases in experiences of assault violence among black men with low socioeconomic status living in Louisiana. Heliyon. 2022;8(7):e09974. Published 2022 Jul 19. doi:10.1016/j.heliyon.2022.e09974
- 6. Lau FH, Powell CE, Adonecchi G, et al. Pilot phase results of a prospective, randomized controlled trial of narrowband ultraviolet B phototherapy in hospitalized COVID-19 patients. *Exp Dermatol.* 2022;31(7). doi:10.1111/EXD.14617
- 7. Beiter K, Danos D, Conrad E, et al. PTSD treatment reduces risk of trauma recidivism in a diverse community at a safety-net hospital: A propensity score analysis of data from a level one trauma center. *Injury*. 2022;53(7):2493-2500. doi:10.1016/J.INJURY.2022.05.026
- 8. Leblanc H, Danos D, Moreci R, Elliott L, Yu DC, Zagory JA. Inpatient Rehabilitation After Pediatric and Adolescent Trauma: Outcomes and Discharge Needs. *J Surg Res.* 2022;277:279-289. doi:10.1016/J.JSS.2022.04.013
- 9. Hossain FM, Danos DM, Fu Q, et al. Association of Obesity and Diabetes With the Incidence of Breast Cancer in Louisiana. *Am J Prev Med*. 2022;63(1 Suppl 1):S83-S92. doi:10.1016/J.AMEPRE.2022.02.017
- 10. Patel S, Lalani A, Bray J, et al. A Novel Clinically Based Classification System for the Profunda Femoris Artery and the Circumflex Femoral Arteries. *Ann Vasc Surg.* 2022. doi:10.1016/J.AVSG.2022.03.001
- 11. Yoo A, Palines PA, Mayo JL, et al. The Impact of Indocyanine Green Angiography on Fat Necrosis in Deep Inferior Epigastric Perforator Flap Breast Reconstruction. Ann Plast Surg. 2022;88(4):415-419. doi:10.1097/SAP.0000000000003021
- 12. Scott JL, Lee-Johnson NM, Danos D. Place, Race, and Case: Examining Racialized Economic Segregation and COVID-19 in Louisiana. *J racial Ethn Heal disparities*. 2022. doi:10.1007/S40615-022-01265-Y
- 13. Yoo A, Short C, Lopez MJ, et al. Dehydrated Human Amniotic-Chorionic Membrane Reduces Incisional Hernia Formation in an Animal Model. *J Surg Res.* 2022;270:477-485. doi:10.1016/J.ISS.2021.10.019
- 14. Danos D, Leonardi C, Wu XC. Geographic determinants of colorectal cancer in Louisiana. *Cancer Causes Control*. 2022;33(4):525-532. doi:10.1007/S10552-021-01546-7
- 15. Patel S, Chawla A, Unruh M, et al. A proposed model for a comprehensive virtual subinternship in vascular surgery. *J Vasc Surg.* 2021;74(6):2064-2071.e5. doi:10.1016/J.JVS.2021.05.045
- 16. Maddox S, Palines P, Hoffman R, et al. A Novel Technique for Radiographic Diagnosis of Sarcopenia that Accurately Predicts Postoperative Complications in Lower Extremity Free Flap Patients. *J Reconstr Microsurg.* 2021. doi:10.1055/s-0041-1726396
- 17. Oates G, Juarez L, Horswell R, et al. The Association Between Neighborhood Social Vulnerability and COVID-19 Testing, Positivity, and Incidence in Alabama and Louisiana. *J Community Health*. 2021. doi:10.1007/s10900-021-00998-x
- 18. Hoffman R, Danos D, Lau F. National health disparities in incisional hernia repair outcomes: An analysis of the Healthcare Cost and Utilization Project National Inpatient Sample (HCUP-NIS)

- 2012-2014. Surg (United States). 2021;169(6). doi:10.1016/j.surg.2020.11.028
- 19. Hoffman R, Danos D, Lin S, Lau F, Kim P. Prevalence of Accessory Branches and Other Anatomical Variations in the Radial Artery Encountered during Radial Forearm Flap Harvest: A Systematic Review and Meta-Analysis. *J Reconstr Microsurg*. 2020. doi:10.1055/s-0040-1713600
- 20. Mulloy C, Hoffman R, Danos D, Lau F. Health Disparities in Incisional Hernia Presentation: An Analysis of HCUP-NIS Years 2012-2014. *Am Surg.* 2020;86(7):799-802. doi:10.1177/0003134820933574
- 21. Prakash O, Hossain F, Danos D, Lassak A, Scribner R, Miele L. Racial Disparities in Triple Negative Breast Cancer: A Review of the Role of Biologic and Non-biologic Factors. *Front Public Heal*. 2020;8. doi:10.3389/fpubh.2020.576964
- 22. Scott J, Danos D, Collins R, et al. Structural racism in the built environment: Segregation and the overconcentration of alcohol outlets. *Heal Place*. 2020;64. doi:10.1016/j.healthplace.2020.102385
- 23. Hossain F, Danos D, Prakash O, et al. Neighborhood Social Determinants of Triple Negative Breast Cancer. *Front Public Heal*. 2019;7:18. doi:10.3389/fpubh.2019.00018
- 24. Danos D, Leonardi C, Gilliland A, et al. Increased risk of hepatocellular carcinoma associated with neighborhood concentrated disadvantage. *Front Oncol.* 2018;8(SEP). doi:10.3389/fonc.2018.00375
- 25. Danos D, Ferguson T, Simonsen N, et al. Neighborhood disadvantage and racial disparities in colorectal cancer incidence: a population-based study in Louisiana. *Ann Epidemiol*. 2018;28(5):316-321.e2. doi:10.1016/j.annepidem.2018.02.004
- 26. Oral E, Danos D. Modeling binary responses with stochastic covariates. https://doi.org/101080/0361092620181472782. 2018;48(11):2619-2640. doi:10.1080/03610926.2018.1472782

Peer Reviewed Publications - Submitted or Under Revision

- 1. Fa A, Danos D, Maniscalco L, et al. Outcomes for women with Hepatocellular Cancer: is there really a difference? Annals of Epi. Submitted Feb 2022
- 2. Adepoju L, Danos D, Cook M, Schauer P, Albaugh VL. Insurance payer status affects risk of postoperative Major Adverse Cardiovascular and Cerebrovascular Events following bariatric surgery. Obesity. Submitted Jan 2023.
- 3. Lau F, Hoffman R, Danos D, et al. Regenerative vs. Flap-based Limb Salvage: A Multi-Centered, Prospective, Randomized Controlled Trial. Plastic and Reconstructive Surg. Revised Dec 2022.

Scientific Peer Reviews

PLOS One 2022 - present
International Journal of Surgery 2022 - present
Cancer Causes and Control 2021 - present
OHDRC pilot grant program 2020
LACATS Multi-Institutional pilot grant program 2019, 2020

Abstracts and Presentations

- 1. Ross R, et al. Is BMI > 70 Too Heavy for Bariatric Surgery? American Society for Metabolic & Bariatric Surgery 2023 Annual Meeting. Las Vegas, June 2023.
- 2. Tullos A, Danos D, Sheehan M. Surgeon specialties for vascular procedures. 2023 Vascular Annual Meeting. National Harbor, MD. June 2023.

- 3. Landry J, Mattison Y, Voros B, et al. Management of Metastatic Pancreatic Neuroendocrine Tumors at a Single Institution: Role of Resection and Effect of Clinical Factors on Outcomes. 57th Annual Cohn Rives Professorship, New Orleans, LA. March 10, 2023.
- 4. Landry J, Mattison Y, Voros B, et al. Management of Metastatic Pancreatic Neuroendocrine Tumors at a Single Institution: Role of Resection and Effect of Clinical Factors on Outcomes. The Cancer Advocacy Group of Louisiana's 2nd Annual NeauxCancer Conference. New Orleans, LA March 15. 2023.
- 5. Landry J, Mattison Y, Voros B, et al. Management of Metastatic Pancreatic Neuroendocrine Tumors at a Single Institution: Role of Resection and Effect of Clinical Factors on Outcomes. Society of Surgical Oncologists International Conference on Surgical Cancer Care. Boston, MA. March 2023.
- 6. Moreci M, et al. Evaluation of blood transfusion requirements in pediatric sickle cell patients undergoing surgery. American College of Surgeons, Louisiana Chapter, 2023 Annual Meeting. New Orleans, Louisiana. March 2023.
- 7. Leblanc H, et al. Behavioral Sequelae Among Pediatric Trauma Patients After Discharge from Inpatient Rehabilitation. American College of Surgeons, Louisiana Chapter, 2023 Annual Meeting. New Orleans, Louisiana. March 2023.
- 8. Gold L, et al. Long-term Implications of Tracheostomy Creation Among Pediatric and Adolescent Trauma Patients. American College of Surgeons, Louisiana Chapter, 2023 Annual Meeting. New Orleans, Louisiana. March 2023.
- 9. Fleury A, Martinez C, Danos D, Prasad P. Trends Amongst Louisiana Adolescent and Young Adult Oncology Patients. Robert A. Winn Clinical Investigator Pipeline Program, Summer Research Symposium. July 2022.
- 10. Chhikara P, Danos D, Tran T, et al. The Application of Robotic Surgical Platforms in Bariatric Surgery A Comparison of Efficacy and Outcomes in a Select Patient Population. Society of Laparoscopic & Robotic Surgeons Minimally Invasive Surgery (MIS) Week Scientific Paper Presentation. New Orleans, Louisiana. September 2022.
- 11. Adepoju L, Danos D, Green C, et al. Immediate Postoperative Major Adverse Cardiovascular Events (MACE) following bariatric surgery in United States from 2012-2019 Have Declined Despite Increasing Operative Risk. American Society for Metabolic and Bariatric Surgery (ASMBS) 38th Annual Meeting Oral Presentation. Dallas, Texas. June 2022.
- 12. Hossain F, Danos D, Zabaleta J, et al. Understanding triple-negative breast cancer immune microenvironment by disease stages, obesity, and race. American Association for Cancer Research (AACR) Annual Meeting Poster Presentation. New Orleans, Louisiana. April 2022.
- 13. Fa A, Danos D, Kandil E, et al. Women diagnosed with hepatocellular carcinoma in Louisiana have higher rates of treatment and better survival compared to men. Americas Hepato-Pancreato-Billiary Association (AHPBA) Annual Meeting Mini Presentation. Miami, Florida. August 2021.
- 14. Simpson J, Leonardi C, Mederos E, et al. Social determinants of clinical trial enrollment in the Gulf South Clinical Trials Network. Summer Research Internship Program, LSU Health. New Orleans, Louisiana. July 2021.
- 15. Wojcik J, Danos D, Mederos E, et al. Multilevel analysis of clinical, physician, and patient barriers to enrollment in the Gulf South Clinical Trial Network. Summer Research Internship Program, LSU Health. New Orleans, Louisiana. July 2021.
- 16. Lyons J, Danos D, Kandil E, et al. Rising Incidence and Trends of Hepatocellular Cancer in an Impoverished Southern State: A Report from the Louisiana Cancer Consortium. Society of Surgical Oncologists, 2021 International Conference on Surgical Cancer Care.
- 17. Billiot A, Danos D, Stevens J, et al. Palliative care services reduce emergency room visits and inpatient hospital days among patients with metastatic hepatobiliary and gastrointestinal

- malignancies. Society of Surgical Oncologists, 2021 International Conference on Surgical Cancer Care.
- 18. Krishnan V, Hajirawala L, DeKerlegand, et al. Emergent colon surgery at a Disproportionate Share Hospital: An underappreciated vulnerable population. Submitted to the American Society of Colon and Rectal Surgeons, 2021 Annual Scientific Meeting.
- 19. Ferguson TF, Williams HA, Danos D. Association of COVID-19 with Race and Concentrated Disadvantage in Louisiana. ACE 2020 Annual Meeting, 'Advancing Health Equity Epidemiologic Research, Education, Policy and Practice.' September 21-23, 2020.
- 20. Rahman S, Danos D. Evaluation of clinical risk factors in Hepatocellular Carcinoma: A case-control study in Southeast Louisiana. Summer Research Internship Program, LSU Health. New Orleans, Louisiana. July 2020.
- 21. Danos D, Scribner R, Price-Haywood E, Leonardi C. Neighborhood Social Determinants of Hepatocellular Carcinoma. The 2019 Pennington Biomedical Research Center Scientific Symposium, Baton Rouge, Louisiana. December 2019.
- 22. Rahman S, Danos D. Neighborhood Concentrated Disadvantage and Smoking among Young Adults in Greater New Orleans. Summer Research Internship Program, LSU Health. New Orleans, Louisiana. July 2019.
- 23. Fahrenwald L, Danos D, Horwitz B. Risk Terrain Analysis of the Built Environment and GIS Methods to Forecast Shootings in New Orleans. School of Public Health Delta Omega Annual Honors Day, LSU Health. New Orleans, Louisiana. April 2019.
- 24. Scott J, Danos D, Collins R, et al. Origins of health disparities: Residential racial segregation and the overconcentration of alcohol outlets. Presented at the Population Association of America (PAA) Annual Conference. Austin, Texas. April 2019
- 25. Scott J, Danos D, Collins R, et al. Separate but unequal: Alcohol outlets as an indicator of systemic racism and the health risks of segregation. Paper presented at the Society for Social Work Research (SSWR) Annual Conference. San Francisco, California. January 2019.
- 26. Danos D, Kepper M, Ferguson TF, et al. Utilizing Electronic Health Records to Evaluate Racial Disparities in Metabolic Syndrome. American Heart Association Epi Lifestyle 2018 Scientific Sessions, New Orleans, Louisiana. April 2018.
- 27. Ferguson TF, Kumar S, Danos D, Scribner R. Heart Disease among Breast Cancer Patients. American Heart Association, EPI/Lifestyle 2018 Scientific Sessions. New Orleans, Louisiana. April 2018.
- 28. Hossain F, Danos D, Prakesh O, et al. Social Determinants of Triple Negative Breast Cancer Disparities: A Multilevel Analysis of the Louisiana Tumor Registry Data. Xavier University of Louisiana's 11th Health Disparities Conference, New Orleans, Louisiana. April 2018.
- 29. Danos D, Kepper M, Price-Haywood E, et al. Utilizing Electronic Health Records to Evaluate Racial Disparities in Metabolic Syndrome. University of Alabama's (UAB) 13th Annual Health Disparities Research Symposium. Birmingham, Alabama. March 2018.
- 30. Ferguson TF, Danos D, Leonardi C, et al. Concentrated Disadvantage and Cancer Incidence in Louisiana. American College of Epidemiology Annual National Meeting. New Orleans, Louisiana. September 2017.
- 31. Danos D, Ferguson TF, Simonsen N, et al. Social determinants of Hepatocellular Carcinoma in Louisiana. AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved. Atlanta, Georgia. September 2017.
- 32. Danos D, Ferguson TF, Simonsen N, et al. Racial Disparities in Late Stage Breast Cancer Diagnosis: Assessing Geographic Variation and Ecological Risk. Annual Society for Epidemiologic Research (SER) Conference, 2017. Seattle, Washington. June 2017.
- 33. Scribner R, Danos D, Ferguson TF, et al. Social Determinants of Liver Cancer in Louisiana. University of Alabama's (UAB) 12th Annual Health Disparities Research Symposium. Birmingham, Alabama. April 2017.

- 34. Danos D, Ferguson, TF, Simonsen N, et al. Neighborhood Disadvantage and Racial Disparities in Colorectal Cancer Incidence: A Population Based Study in Louisiana. University of Alabama's (UAB) 12th Annual Health Disparities Research Symposium. Birmingham, Alabama. April 2017.
- 35. Ferguson TF, Scribner R, Danos D, et al. Racial Disparities in Late Stage Breast Cancer Diagnosis: Assessing Geographic Variation and Ecological Risk. University of Alabama's 12th Annual Health Disparities Research Symposium. Birmingham, Alabama. April 2017.
- 36. Collins R, Danos D, Leonardi C, et al. An Analysis of the Relationship between Segregation and Alcohol Outlet Density in Mid-South States. University of Alabama's (UAB) 12th Annual Health Disparities Research Symposium. Birmingham, Alabama. April 2017.
- 37. Ferguson TF, Danos D, Simonsen N, et al. 'Association of Concentrated Disadvantage with Cancer Incidence in Louisiana.' Meharry Translational Research Center (MeTRC) 2016 Conference on Addressing Health Disparities. Nashville, Tennessee. November 2016.
- 38. Danos D, Oral E. The effect of Link Misspecification in Binary Regression. School of Public Health Honors-Research Day, LSU Health. New Orleans, Louisiana. May 2016.

CURRENT AND PAST RESEARCH SUPPORT

UAB School of Medicine Gabriela Oates (PI) 08/01/20 – 07/30/21 Individual- and area-level risk factors for COVID-19 disparities in the Deep South. Role: Pilot PI and Biostatistician

NIH UG1 Supplement Augusto Ochoa (PI) 08/01/20 – 07/30/21 Effect of COVID-19 on Cancer Patients and Cancer Health Disparities in Louisiana.

Role: Pilot PI and Biostatistician

1P20 CA233374-01 Augusto Ochoa (PI) 09/01/18 – 08/31/21 *Understanding and Addressing Cancer Health Disparities in Louisiana.*Role: Pilot PI and Biostatistician

U54 GM104940 Claudia Leonardi (PI) 07/01/18 – 12/31/19
Feasibility of Electronic Health Records to Study Social Determinants of
Health Disparities in Hepatocellular Carcinoma in Louisiana.
Role: Biostatistician

U54 GM104940 Fokhrul Hossain (PI) 02/01/18 – 01/31/20
Obesity and Triple Negative Breast Cancer in Louisiana: Linking
Health Disparities and Cancer Biology.
Role: Biostatistician

5R24MD008121-03 Richard Scribner (PI) 01/01/16 – 12/31/18 Community-Academic Partnership to Address Health Disparities in New Orleans. Role: Biostatistician

5U54MD008176-04 Mona Fouad (PI) 09/26/12 – 07/31/18 Mid-South Transdisciplinary Collaborative Center for Health Disparities Research. Role: Biostatistician.