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EDUCATION

Rice University, Houston, TX
- Ph.D. in Statistics, May, 2007
  - Dissertation: "Multilevel Classification: Classification of Populations from Measurements on Members"
- M.A. in Statistics, 2005
- B.A. in Statistics, 1999
- B.A. in Computational and Applied Mathematics, 1999

EXPERIENCE

Full Professor of Biostatistics and Data Science (with tenure), Department of Biostatistics and Data Science, The University of Texas Health Sciences Center School of Public Health, Sept 2021- Present

Director, Coordinating Center for Clinical Trials, The University of Texas Health Sciences Center School of Public Health, June 2021 – Present

Associate Professor of Biostatistics (with tenure), Department of Biostatistics and Data Science, The University of Texas Health Sciences Center School of Public Health, Sept 2015 – 2021

Assistant Professor of Biostatistics, Division of Biostatistics, The University of Texas Health Sciences Center School of Public Health, July 2009 – 2015

Regular Member of the Graduate Faculty, The University of Texas Graduate School of Biomedical Sciences at Houston, April 2013 – present

Senior Statistical Analyst, Department of Biostatistics, The University of Texas M. D. Anderson Cancer Center, 2008 – 2009
- Perform statistical analyses of clinical trials including survival analysis, multiple regression, data mining, inter-rater agreement analysis, mixed-effects models, Bayesian analysis
- Provide statistical consulting to researchers and clinicians at the institution

- Help prepare resubmission of P01 grant *Optical Technologies for Cervical Neoplasia*
    - Write sections of the biostatistics core
    - Calculate sample sizes for the design of large clinical trials
- Conduct methodological research in classification including extensions of dissertation work
- Correlate quantitative cytology with spectroscopy for diagnosing and screening of cervical neoplasia
- Prepare manuscripts for publication in peer-reviewed journals

Adjunct Faculty Member, Cameron School of Business, The University of St. Thomas, 2009 – 2010

- Design, develop, and teach the course "Quantitative Methods", an introduction to statistics course for the Master of Business Administration program.

Postdoctoral Fellow, Department of Biostatistics, The University of Texas M. D. Anderson Cancer Center, 2007 – 2008

- Conducted methodological research in classification including extensions of dissertation work
- Prepared manuscripts for publication in peer-reviewed journals
- Helped prepare resubmission of P01 grant *Optical Technologies for Cervical Neoplasia*
    - Wrote sections of the biostatistics core
    - Calculated sample sizes for the design of large clinical trials

Statistical Analyst, Department of Biostatistics and Applied Mathematics, The University of Texas M. D. Anderson Cancer Center, 2000-2007

- Performed statistical analysis of clinical trials including survival analysis, multiple regression, inter-rater agreement analysis, Receiver Operator Characteristics analysis, permutation tests, multiple testing
- Conducted methodological research on classification problems with a hierarchical structure
- Calculated power and sample size for the design of clinical trials
- Developed classification procedures for automating the process for the early detection of cancer
- Provided statistical consulting for other researchers and clinicians at the institution

Graduate Research, Department of Statistics, Rice University, 2001 – 2007

- Conducted methodological research in classifying data when the level of the unit of classification is different than the level of the quantitative measurements. The application was to automate the process of detecting cervical cancer from quantitative measurements (quantitative cytology) on the cells.

Teacher Assistant, Department of Statistics, Rice University, 2001-2002, 2006

- Lectured for the graduate-level course "Generalized Linear Models and Categorical Data Analysis" (2006)

- Directed lab and graded papers for “Elementary Applied Statistics” and “Introduction to Statistics for the Biosciences” undergraduate courses (2001-2002)

Programmer, Rice Virtual Lab in Statistics, Rice University, June 1999- August 1999
- Designed statistical questions and did programming for a NSA-funded, web-based interactive tool for learning statistics online

Summer Undergraduate Researcher, Rice Institute of Mathematical Sciences, Rice University, June 1997- August 1997

CURRENT FUNDING

1U24HL166769-01A1 09/17/2024-07/31/2031
NIH/NHLBI Total direct costs: $3,236,968
Total indirect costs: $1,812,702
Inhaled Nitric Oxide for Congenital Diaphragmatic Hernia - The "NONO trial" - a pragmatic, multi-center, de-implementation, stepped-wedge, cluster-randomized trial
We propose a multi-center trial, within an established research network, to study the use of a medication (inhaled Nitric Oxide) in the management of newborn infants with congenital diaphragmatic hernia (CDH). We will use a novel study design approach to learn about the effects this medication has on the level of oxygen in the blood, the need for heart-lung bypass support, and survival, along with the cost-effectiveness of the medication and how well physicians and centers adopt the new approach. Our objective is to advance the adoption of cost- effective, evidence-based strategies in CDH care, leading to cost-effective improvements in CDH and neonatal outcomes.
Role: DCC MPI (along with MPIs Matt Harting and Claudia Pedroza)

W81XWH2211089 (Rubenstein) 09/30/2022-09/29/2026
DoD- SUNY Total SPH costs: $863,919
Gap-based Milieu Biomarkers for Traumatic Brain Injury (GAMBIT- TBI)
This project aims to assess the univariate association of hourly multimodal physiological variables with long-term neurological outcomes; to develop and validate a multivariable predictive model for long-term neurological outcomes; to develop and validate a multivariable predictive model of long-term neurological outcomes using high-frequency real time multimodal physiological data; and to assess the association between the ways ICP is treated and long-term neurological outcomes
Role: DCC Principal Investigator

AGT012240 (Fernandez) 12/22/2023-12/31/2025
Multiple Sclerosis Association of America $2,944,773
Multiple Sclerosis Implementation Network
The primary goal of MSIN is to improve Multiple Sclerosis (MS) practice by creating and supporting a practice-based research network providing a collaborative learning environment for clinical partners that provide care for patients with MS across the

country to advance MS research and practice. We aim to achieve this goal through three specific aims: 1) Establish the MSIN - a Practice Based Research Network of clinical partners that provide care for patients with MS. 2) Establish an Implementation Research Program (IRP) enabled to conduct rapid-cycle implementation research; and conduct an initial implementation research study. 3) Generate, synthesize, and translate evidence for best practices.
PI: Maria Fernández
Role: DCC PI: Jose-Miguel Yamal

American Heart Association Total costs: $100,000
Remote BP Monitoring and Evidence-based Nutrition Interventions to Promote Brain Health Equity and Wellness after Stroke
Role: MPI (with Dr. Sharrief and Dr. Sharma)

American Heart Association Total costs: $100,000
Designing a multisite RCT to test a food is medicine intervention to prevent gestational diabetes among women at-risk
Role: MPI (with Dr. Sharma and Dr. Ranjit)

16GRNT27610004 (Grotta) 2/01/2015-12/31/2025
PCORI/MHHS Total direct costs: $1,800,000
SPH direct costs: $1,220,922
Benefits of Stroke Treatment Delivered Using a Mobile Stroke Unit Compared to Standard Management by Emergency Medical Services – BEST-MSU Study.
The primary goal of this project is to carry out a trial comparing pre-hospital diagnosis and treatment of patients with stroke symptoms using a Mobile Stroke Unit (MSU) with subsequent transfer to a Comprehensive Stroke Center (CSC) Emergency Department (ED) for further management, to standard pre-hospital triage and transport by Emergency Medical Services (EMS) to a CSC ED for evaluation and treatment (Standard Management-SM). Oversee the design, data management, analysis, reporting and publications for a randomized controlled trial.
Role: Principal Investigator of Data Coordinating Center (PI of study: James Grotta)
43% effort

1UG3DE029213-01 (Sharma) 09/01/2019 – 08/31/2025
NIH/NIDCR Yearly direct costs: $296,551
CATCH Healthy Smiles: A cluster-RCT of an elementary school oral health intervention
This grant will allow us to plan for, and test the efficacy of an elementary school-based oral health intervention using a cluster-randomized controlled trial design across children from ethnically-diverse, low-income families in Houston, Texas.
Role: Head of Data Coordinating Center, Co-Investigator (PI of study: Shreela Sharma)
15% effort

1R01MD016465-01 (Sharrief) 9/18/2021 – 5/31/2026
NIH/NINDS Total costs: $3,646,666

Video-based Intervention to Reduce Treatment and Outcome Disparities in Adults Living with Stroke or Transient Ischemic Attack (VIRTUAL)
The purpose of this study is to perform a randomized comparative effectiveness trial to assess the impact of a multidisciplinary telehealth intervention aimed at improving outpatient blood pressure control and decreasing disparities in blood pressure control in racially and ethnically diverse cohort of ischemic and hemorrhagic stroke survivors by incorporating a social determinants of health approach into the care model.
Role: Head of Data Coordinating Center, Co-Investigator (PI of study: Anjail Sharrief)
10% effort

1R01NS140001-01 (Sharrief) 12/15/2024-11/30/2029
NIH/NINDS Total costs: $3,544,694
Brain Health Equity Research Collaborative
Neurologic conditions including stroke, vascular cognitive impairment and dementia, and Parkinson's disease contribute to the leading causes of death and disability in the United States and globally. Stark racial and ethnic disparities in the burden of these diseases exist, and there is an urgent need to develop community-driven interventions that promote equity in neurologic disease outcomes. Our multidisciplinary team aims to collaborate with community-based organizations to establish a Brain Health Equity Collaborative which will facilitate equitable academic and community partnerships for clinical trial development.
Role: Co-investigator

Episcopal Health Foundation (EHF) 1/1/2024-9/30/2026
Total costs: $360,000
A comprehensive produce prescription program to improve food security and health outcomes among at-risk children and their families
Role: Co-investigator

Wal-Mart Foundation (WMTF) 12/01/2023-1/31/2026
Total costs: $1,500,000
A comprehensive produce prescription program to improve food security and health outcomes among at-risk children and their families.
Role: Co-investigator, Director of data coordinating center

Episcopal Health Foundation (EHF) 1/1/2024-9/30/2026
Total costs: $290,000
Building Capacity to Improve Health Equity Impact through Non-Medical Drivers of Health Closed Loop Referrals Across the Greater Houston Region
Role: Co-investigator

NIH/NINDS/Stanford University 06/01/2025-12/31/2025
Total SPH costs: $50,000

TOPS: Tissue and Outcome Prediction in Stroke
Role: Co-investigator, Subcontract PI

Contract 05/01/2023-04/30/2027
Memorial Hermann Health System $228,614
Secondary analyses of the BEST-MSU Study
Role: Principal Investigator

PRIOR FUNDING

W81XWH-20-1-0770 PI: Jose-Miguel Yamal 09/15/2020-3/15/2023
DoD Total costs: $750,000
Leveraging FITBIR Data to Improve Clinical Practice of Severe TBI
This project aims to assess the univariate association of hourly multimodal physiological variables with long-term neurological outcomes; to develop and validate a multivariable predictive model for long-term neurological outcomes; to develop and validate a multivariable predictive model of long-term neurological outcomes using high-frequency real time multimodal physiological data; and to assess the association between the ways ICP is treated and long-term neurological outcomes
Role: Principal Investigator
27% effort

Service Agreement (Otto) 10/17/2021 – 10/16/2023
Harris County Public Health $1,872,454
Harris Cares: Embrace HOPE (Healing, Opportunity, Prosperity, Equity)
The goal of the COVID-19 surveillance/analytics core is to support science-based public health action to address COVID-19-related health disparities and advance health equity in Harris County.
Role: Co-PI
8% effort

1R34DE026245-01A1 PI: Shreela Sharma 4/01/2017-3/31/2018
NIH/NIDCR Total direct costs: $150,000
CATCH Healthy Smiles: Planning and feasibility of an elementary school-based child oral health RCT
This is a planning grant of an elementary school-based child oral health cluster-randomized controlled trial.
Role: Co-investigator
5% effort

R03 PI: Jose-Miguel Yamal 09/01/2014-3/29/2016
Baylor College of Medicine/ DoD Total subcontract direct costs: $90,660
Legacy Clinical Data from the Epo TBI Trial

To load legacy data from 200 patients that were enrolled in the "Effects of Erythropoietin (Epo) on Cerebral Vascular Dysfunction and Anemia in Traumatic Brain Injury (TBI)" Phase II clinical trial into FITBIR, including to create a number of new data elements for the physiological variables which do not currently exist in the CDE.
Role: Principal Investigator of Statistical Core (subcontract, PI of primary award: Claudia Robertson)
25% effort

(Cuccaro and Yamal) 2/01/2022-11/30/2022
Texas DSHS/UT Tyler Total direct costs: $614,079
Covid-19 Vaccine Hesitancy and Confidence (COVAHC) Survey: A Rapid Community Assessment in Texas
This rapid community assessment is composed of two surveys focusing on — 1. Community members and 2. Medical providers — to assess COVID-19 vaccine hesitancy and confidence within the state of Texas. The surveys are designed to engage with 20,000 Texas residents from diverse racial, ethnic, geographic, and economic background and will be administered through dual modalities to reach out to a wide range of demographics.
Role: Co-PI
15% effort

RP170668 PI: Wenjin Zheng 9/1/2017-8/31/2022
CPRIT Total direct costs: $5,652,477
Data Science and Informatics Core for Cancer Research
Role: Co-PI of Biostatistics Core
15% effort

T32NS007412-21 (Savitz) 07/01/2019 – 06/30/2020 No salary
NIH/NINDS $312,746 annual costs support
The University of Texas – Houston Stroke Training Program
This training grant supports the fellows in training during their matriculation in our vascular neurology program.
Role: Mentor

P01CA082710 PI: Jose-Miguel Yamal 1/1/10-12/31/16
NIH/Brookdale Hospital Total subcontract direct costs: $54,451
Optical Technologies and Molecular Imaging of Cervical Neoplasia
Provide statistical support with particular expertise in computer intensive models for classification. Dr. Yamal will develop algorithms for classifying patient status based on the data provided by the fluorescence spectroscopy trials.
Role: Principal Investigator of subcontract (PI of primary award: Michele Follen)
20% effort

HHS001089700001 (Boerwinkle) 10/01/2021-9/31/2023

Texas Department of State Health Services Total direct costs: $14,999,997
Texas SARS-Co-V-2 Variant Sequencing Study
The objective of this project is to understand the epidemiology and dynamics of COVID-19 in our community. The UTH team will support the statewide efforts to expand genomic sequencing of SARS-CoV-2 and analyze genomic sequence output in Texas. RNA viruses acquire mutations over time, and these mutations in the viral genome can lead to the emergence of new variants that may have different characteristics.
Role: Co-I
5% effort

NO1-HC-35130 PI: Barry Davis 8/02/93-5/31/16
NIH Total direct costs: $92,268,619
Clinical Trials Center for Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT)
The goal of this study is to conduct a randomized double-blind trial designed to compare 4 antihypertensive medications in reducing cardiovascular disease risk in over 40000 high-risk hypertensive patients.
Role: Co-Investigator
20% effort

1R21CA153373-01A1 PI: Jonathan Ophir 4/25/11 - 3/31/15
NIH Total direct costs: $404,732
Axial Shear Strain Elastography in Benign and Malignant Breast Disease.
The goal of this research is to expand the development and testing of noninvasive, novel ultrasound imaging methodologies to elucidate the mechanical phenomena occurring at and near soft tissue tumor boundaries in the breast. The overall hypothesis is that unique and novel axial-shear strain fill-in zones created in slightly-compressed breast lesions and imaged with ultrasound axial shear strain elastography (ASSE) add an independent diagnostic feature to the standard BI-RADS-ultrasound features which improves the sensitivity & specificity of noninvasive diagnosis of benign versus malignant breast tumors *in vivo*.
Role: Co-Investigator

P01NS038660 PI: Jose-Miguel Yamal 5/10/10-1/31/14
Baylor/ NIH Total subcontract direct costs: $391,611
Effects Of Erythropoietin On Cerebral Vascular Dysfunction & Anemia In Traumatic Brain Injury
Oversee the design, data management, analysis, and reporting including reporting to the Data and Safety monitoring committee and publications for a two-site mid-phase placebo controlled randomized trial of erythropoeitin as a treatment for traumatic brain injury.
Role: Principal Investigator of Statistical Core (subcontract, PI of primary award: Claudia Robertson)

R01HL076532 PI: Dr. Roberta B. Ness. 1/22/10-7/31/11
NIH (NHLBI) Total direct costs: $992,039
Fetal Growth Restriction and Maternal Cardiovascular Risk, Women and Infant Study of Healthy Hearts (WISH),

The overall goal of this project is to compare the cardiovascular risk profile of women who have and have not had an intrauterine growth retardation baby. Dr. Yamal's primary responsibility is the coordination of the statistical analysis and supervising the statistical research assistant.
Role: Co-Investigator

Vivante Health Revere (PI) 09/01/2019 – 08/31/2020
EHIR-Vivante Study: Analysis of Inflammatory Conditions within Fortune 100 Companies Digestive Disease
The objective of the study is to quantify the prevalence, costs, and key drivers of inflammatory disease, starting with digestive disease, within key employer populations. This is essential in order to define the health priorities for clinical care and program spend allocation within these populations.
Role: Co-Investigator
10% effort

PEER-REVIEWED PUBLICATIONS

* = students I have advised or mentored
§ = I am corresponding/co-corresponding author/senior
† = co-first author

1. M Ochoa-Urrea, X Luo, L Vilella, N Lacuey, SJ Omidi, NJ Hupp, B Talavera, JP Hampson, S Rani, S Tao, X Li, CY Miyake, L Cui, JS Hampson, C Ganne, YS Vakilna, RK Sainju, D Friedman, M Nei, L Allen, CA Scott, J Oliveira, B Gehlbach, SU Schuele, JA Ogren, RM Harper, B Diehl, LM Bateman, GB Richerson, **J-M Yamal**, G-Q Zhang, O Devinsky, SD Lhatoo. An Observational Prospective Multicenter Cohort Study of Risk Markers for Sudden Unexpected Death in Epilepsy (SUDEP). *The Lancet*, in press.

2. Hinds S*, Robertson C, Chen J, Yaseen A, Diaz-Arrastia R, Temkin NR, Cruz Navarro J, DeSantis SM, **Yamal J-M**§. High-frequency Physiological Measures Predict Post-Admission Surgical Intervention After Severe Traumatic Brain Injury. *Journal of Neurotrauma*, in press.

3. Okpala M, Izeogu C, Wang M, Green C, Cooksey G, Nguyen T, Cohen AS, Bryant L, Hernandez D, Bernstam E, Gonzalez M, Conyers R, Chiadika SM, Varacalli K, Savitz S, **Yamal J-M**, Sharrief AZ. Video-based Intervention to Reduce Treatment and Outcome Disparities in Adults Living with Stroke or Transient Ischemic Attack (VIRTUAL): Protocol for a Randomized Controlled Trial. *Trials*, 2025:26:288. https://doi.org/10.1186/s13063-025-09003-5

4. Yadikar H, Kobeissy FH, Robertson C, Tsetsou S, Williamson J, Lamb D, Wagner AK, Kilbaugh T, Kao A, Kou Z, Welch RD, **Yamal J-M**, Rubenstein R,

Wang KW. Early Cerebrospinal Fluid Elevations of pTau-217 in Severe TBI Subjects. *Frontiers in Neurology, Sec. Neurotrauma*, in press.

5. Wollen J, Nguyen T, Coton C, DeWildt G, Cooksey G, Cohen A, Hoang N, Okpala M, Gonzales M, Wang M, Izeogu C, Bernstam E, Green C, Savitz S, **Yamal J-M**, Sharrief A. Development of a Customizable Web-Based Dashboard for Remote Blood Pressure Monitoring. *JMIR Formative Research*, 2025;9;e62700. https://doi.org/10.2196/62700

6. Sharma SV, Deason JE*, Wang M, Garcia-Quintana A, Chuang-R-J, Johnson K, Garner S, Kelder S, **Yamal J-M§**. Association of Parental Oral Health Knowledge and Self-Efficacy with Early Childhood Caries and Oral Health Quality of Life in Texas Schoolchildren. *International Journal of Environmental Research and Public Health*, March 2025, 22(4), 513.

7. Tiruneh YM, Choi J, Cuccaro PM, Martinez J, Xie J, Owens M, **Yamal J-M**§. Sociodemographic and health-related predictors of COVID-19 booster uptake among fully vaccinated adults. *Vaccine*, 2025 Apr 30;54:127048.

8. Zhang K, Hunyadi JV, de Oliveira Otto MC, Lee M, Zhang Z, Rmphul R, **Yamal J-M**, Yaseen A, Morrison AC, Sharma S, Rahbar MH, Zhang X, Linder S, Marko D, White Roy R, Banerjee D, Guajardo E, Crum M, Reininger B, Fernandez ME, Bauer C. Increasing COVID-19 Testing and Vaccination Uptake in the Take Care Texas Study: Adaptive Geospatial Design in Community-Based Randomized Trials. *JMIR Formative Research*, 2025-2; 9:e62802-e62802. Doi: 10.2196/62802.

9. **Yamal J-M**†, Mofleh D†, Chuang R-J, Wang M, Johnson K, Garcia-Quintana A, Titiloye T, Nelson S, Sharma S. Training Protocol and Calibration of the International Caries Detection and Assessment System in a School-Based Clinical Trial of Elementary School-Age Children. *J of Public Health Dentistry*, 08 December 2024; 85(1):13-20. https://doi.org/10.1111/jphd.12648.

10. Rajan S, **Yamal J-M**, Wang M, Saver JL, Jacob AP, Gonzales NR, Ifejika N, Parker SA, Ganey C, Gonzalez MO, Lairson DR, Bratina PL, Jones WJ, Mackey J, Lerario M, Navi BB, Alexandrove AW, Alexandrov A, Nour M, Spokoyny I, Bowry R, Czap AL, Grotta JC. A Prospective Multicenter Analysis of Mobile Stroke Unity Cost-Effectiveness. *Annals of Neurology*, 2024 December; 97(2):209-221. doi: 10.1002/ana.27105.

11. Sinha A*, Moye L, Piller L, **Yamal J-M,** Barcenas C, Lin J, Davis B. Simultaneous Population Enrichment and Endpoint Selection in Phase 3 Randomized Controlled Trials: An Adaptive Group Sequential Design with Two Binary Alternative Primary Endpoints. *Communications in Statistics – Theory and Methods.* 2024 May 18;53(10):3728-41.

12. Tiruneh YM, Cuccaro PM, Elliott KS, Xie J, Martinez J, Owens M, Alvarado C, **Yamal J-M§**. Vaccine Uptake and Intentions: Insights from a Texas Survey on Factors Influencing COVID-19 Vaccination Decisions. *Vaccines*, 2024 May 31;12(6):601.

13. Jannace KC*, Pompeii L, Gimeno Ruiz de Porras D, Perkison WB, **Yamal J-M**, Trone DW, Rull RP. Risk of Traumatic Brain Injury in Deployment and Nondeployment Settings Among Members of the Millennium Cohort Study. *Journal of Head Trauma Rehabilitation*. 2024:10-97.

14. Cuccaro PM, Choi J, Tiruneh YM, Martinez J, Xie J, Crum M, Owens M, **Yamal J-M§**. Parental factors associated with COVID-19 vaccine uptake for children over 5 years of age in Texas. *Vaccines*. 2024 May 11;12(5):526.

15. Jannace KC*, Popeii L, Gineno Ruiz de Porras D, Perkison WB, **Yamal J-M**, Trone DW, Rull RP. Lifetime Traumatic Brain Injury and Risk of Post-Concussive Symptoms in the Millennium Cohort Study. *Journal of Neurotrauma*. 2024 Mar 1;41(5-6):613-22.

16. Navi BB, Bach I, Czap AL, Wang M, **Yamal J-M**, Jacob AP, Parker SA, Rajan SS, Mir S, Sherman C, Willey JZ, Saver JL, Gonzalez MO, Singh N, Jones WJ, Ornelas D, Gonzales NR, Alexandrov AW, Alexandrov AV, Nour M, Spokoyny I, Mackey J, Collins SQ, Silnes K, Fink ME, English J, Barazangi N, Bratina PL, Volpi J, Rao CPV, Grivvin L, Persse D, Grotta JC. Strokes Averted by Intravenous Thrombolysis: A Secondary Analysis of a Prospective, Multicenter, Controlled Trial of Mobile Stroke Units. *Annals of Neurology.* 2024 Feb;95(2):347-61.

17. Du X, Martinez J, **Yamal J-M**, Simpson LM, Davis BR. The 18-Year Risk of Cancer, Angioedema, Insomnia, Depression, and Erectile Dysfunction in Association with Antihypertensive Drugs: Post-trial Analyses from ALLHAT-Medicare linked Data. *Frontiers in Cardiovascular Medicine.* 2023;10.

18. Czap AL, Alexandrov AW, Nour M, **Yamal J-M**, Wang M, Jacob AP, Parker SA, Tariq MB, Rajan SS, Alexandrov AV, Jones WJ, Navi BB, Spokoyny I, Mackey J, Lerario MP, Gonzalez MO, Singh N*, Bowry R, Grotta JC. Impact of Mobile Stroke Units on Patients with Large Vessel Occlusion Acute Ischemic Stroke: A Prespecified BEST-MSU Sub-Study. *Stroke: Vascular and Interventional Neurology.* 2023 Dec 20:e001095.

19. **Yamal J-M**§, Martinez J, Osani MC, Du XL, Simpson LM, Davis BR. Mortality and morbidity among individuals with hypertension receiving a diuretic, ACE inhibitor, or calcium channel block: A secondary analysis of a randomized clinical trial. J*AMA Network Open.* 2023 Dec 1;6(12):e2344998-e2344998.

20. Pirlog BO, Jacob AP, Rajan SS, **Yamal J-M**, Parker SA, Wang M, Bowry R, Czap A, Bratina PL, Gonzalez MO, Singh N*, Zou J*, Gonzales NR, Jones WJ, Alexandrov AW, Alexandrov AV, Navi BB, Nour M, Spokoyny I, Mackey J, Silnes K, Fink ME, Sherman C, Willey J, Saver JL, English J, Barazangi N, Ornelas D, Volpi J, Rao CPV, Griffin L, Persse D, Grotta JC. Outcomes of Patients with Pre-existing Disability managed by Mobile Stroke Units: A Sub-analysis of the BEST-MSU Study. *International Journal of Stroke.* 2023 Dec;18(10):1209-18.

21. Yaseen A, Robertson C, Cruz Navarro J, Chen J*, Heckler B, DeSantis S, Temkin N, Barber J, Foreman B, Diaz-Arrastia R, Chesnut R, Manley GT, Wright DW, Vassar M, Ferguson AR, Markowitz AJ, **Yamal J-M**§. Integrating, Harmonizing, and Curating Studies with High-Frequency and Hourly Physiological Data: Proof of Concept from Seven Traumatic Brain Injury Datasets. *Journal of Neurotrauma.* 2023 Nov 1;40(21-22):2362-75.

22. Karra SV*, Krause TM, **Yamal J-M**, Ogle NT, Tanner R, Revere L. Autism Spectrum Disorder and Parental Depression. *Journal of Developmental and Physical Disabilities,* 2023 Aug 15:1-15.

23. Mackey J, **Yamal J-M**, Parker SA, Silnes K, Rajan SS, Jacob AP, Wang M, Singh N*, Jones WJ, Spokoyny I, Navi BB, Saver JL, Grotta JC. Golden hour treatment with tissue plasminogen activator in the BEST-MSU Study. *Stroke*, 2023 Jan 23; 54:415-425.

24. Chang R-J, Byrd-Williams C, **Yamal J-M**, Johnson K, Kelder S, Nelson S, Mofieh D, Sharma S. Design for a Cluster Randomized Controlled Trial to Evaluate the Effects of the CATCH Healthy Smiles School-based Oral Health Promotion Intervention among Elementary School Children. *Contemporary Clinical Trials Communications*, 2022 Dec 1; 30:101033.

25. Otto M, Brito F*, Tark JY, Bakota E, Sharma SV, **Yamal J-M**, Marko Serbo D, Brown MR, Appana SN, Rector AM*, Linder SH, Kiger J, Morrison AC, Boerwinkle E. Case growth analysis to inform local response to COVID-19 epidemic in a diverse U.S. community. *Scientific Reports*, 2022 Oct;12(1):1-10.

26. Mathews SC, Izmailyan S*, Brito FA, **Yamal J-M**, Mikhail O, Revere FL. Prevalence and financial burden of digestive diseases in a commercially insured population. *Clinical Gastroenterology and Hepatology*, 2022 Jul 1;20(7):1480-7.

27. Jacob, Parker SA, Bowry R, Czap Al, **Yamal J-M**, Wang M, Grotta JC. How frequent is the one-hour tPA infusion interrupted or delayed? *J of Stroke and Cerebrovascular Diseases*, 2022 Jun;31(6):106471.

28. **Yamal J-M**§, Appana S, Wang M, Leon Novelo L, Bakota E, Ye Y, Sharma S, Morrison A, Marko D, Linder S, Rector A*, Jetelina K, Boerwinkle E, De

Oliveira Otto M. Trends and correlates of breakthrough infections with SARS-CoV-2. *Frontiers in Public Health, section Infectious Diseases – Surveillance, Prevention and Treatment*, 2022 May; 10:1-9.

29. Czap AL, Hosseini MB, Singh N*, Nour M, Parker S, Kim Y, Restrepo L, Abdelkhaleq R, Salazar-Marioni S, Pham K, Bowry R, Rajan SS, **Yamal J-M**, Grotta JC, Saver JL, Giancardo L, Sheth SA. Machine learning automated detection of large vessel occlusion from Mobile Stroke Unit computed tomography angiography. *Stroke*, 2022 May;53(5):1651-6.

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111. Kim HG, **Yamal J-M**, Xu XC, Hu W, Boiko I, Linares A, Vlastos AT, Atkinson EN, Malpica A, Hittelman WN, Follen M: Cervical chromosome 9 polysomy: Validation and use as a surrogate endpoint biomarker in a 4-HPR chemoprevention trial. *Gynecologic Oncology*. 2005 Dec; 99 (3 Suppl): S32-7.

112. Malpica A, Matisic JP, Niekirk DV, Crum CP, Staerkel GA, **Yamal J-M**, Guillaud MH, Cox DD, Atkinson EN, Adler-Storthz K, Poulin NM, Macaulay CA, Follen M: Kappa Statistics to measure interrator and intrarater agreement for 1790 cervical biopsy specimens among twelve pathologists: Qualitative histopathologic analysis and methodologic issues. *Gynecologic Oncology*. 2005 Dec; 99(3 Suppl):S38-52.

113. Ho V**, Yamal J-M,** Atkinson EN, Basen-Engquist K, Tortolero-Luna G, Follen M: Predictors of breast and cervical screening in Vietnamese women in Harris County, Houston, Texas. *Cancer Nursing*. 2005 Mar-Apr; 28(2):119-29.

114. **Yamal J-M**, Cox D, Hittelman WN, Boiko I, Malpica A, Guillaud M, MacAulay C, Follen, M: Quantitative Histopathology and Chromosome 9 Polysomy in a Clinical Trial of 4-HPR. *Gynecologic Oncology*. 2004 Aug; 94(2):296-306.

115. Lee HK, D'Souza WD, **Yamal J-M**, Pollack A, Lee AK, Palmer MB, Kuban DA: Dosimetric consequences of using a surrogate urethra to estimate urethral dose after brachytherapy for prostate cancer. *International Journal of Radiation Oncology, Biology, Physics*. 2003 Oct 1; 57(2):355-61.

116. Tanyi JL, Hasegawa Y, Lapushin R, Morris AJ, Wolf JK, Berchuch A, Lu K, Smith DI, Kalli K, Hartmann LC, McCune K, Fishman D, Broaddus R, Cheng KW, Atkinson EN, **Yamal J-M**, Bast RC, Felix EA, Newman RA, Mills GB: Role of decreased levels of lipid phosphate phosphatase-l in accumulation of lysophosphatidic acid in ovarian cancer. *Clinical Cancer Research*. 2003 Sep 1; 9(10 Pt 1):3534-45.

LETTERS TO EDITOR IN REFEREED JOURNALS

Robertson CS, **Yamal J-M**, and Tilley BC. Erythropoietin for Traumatic Brain Injury-Reply *JAMA*. 2014; 312(18): 1928-1929. Doi: 10.1001/jama.2014.12744.

Yamal J-M and Grotta J. Editorial on "Early neurological change after ischemic stroke is associated with 90-day outcome." *Stroke*. 2021 Jan;52(1):132-41.

Yamal-JM and Grotta J. Editorial on "National Institutes on Health Stroke Scale as an Outcome Measure for Acute Stroke Trials". Stroke. 2021 Jan;52(1):142-3.

BOOKS

Wu H, **Yamal J-M**, Yaseen A, Maroufy V, editors. Statistics and Machine Learning Methods for EHR Data: From Data Extraction to Data Analytics. CRC Press; 2020 Dec 9.

NON PEER-REVIEWED MANUSCRIPTS

Buys TPH, Cantor SB, Guillaud M, Adler-Storthz K, Cox DD, Okolo C, Arulogon O, Oladepo O, Basen-Engquist K, Shinn E, **Yamal J-M**, Beck JR, Scheurer ME, van Niekerk D, Malpica A, Matisic J, Staerkel G, Atkinson EN, Bidaut L, Lane P, Benedet JL, Miller D, Ehlen T, Price R, Adelwole IF, MacAulay C, and Follen M: Optical Technologies and Molecular Imaging for Cervical Neoplasia: A Program Project Update. *Gender Medicine*. 2012 Feb;9(1 Suppl):S7-24. doi: 10.1016/j.genm.2011.08.002. Epub 2011 Sep 22. PubMed PMID: 21944317; PubMed Central PMCID: PMC3289763.

SERVICE

NIH/DOD

Department of Defense, The Congressionally Directed Medical Research Program (CDMRP), Tick-Borne Disease peer review panel, FY25 Peer Review Medical Research Program (PRMRP) October 2025.

National Institutes of Health, National Heart. Lung, and Blood Institute (NHLBI) Clinical Trials Review (CLTR) Committee, Peer Review, Bethesda, MD, Member September, 2018 – June 30, 2022.

National Institute of Neurological Disorders and Stroke (NINDS), NIH, Sub Arachnoid Neurocysticercosis Treatment and Outcome (SANTO) Trial, Data and Safety Monitoring Board (DSMB) member. 2016-present.

National Institute of Neurological Disorders and Stroke (NINDS), NIH, StrokeNet (stroke trial network) Data and Safety Monitoring Board (DSMB) member. 2015-present.

National Institute on Aging (NIA), NIH, NOURISH Trial, Data and Safety Monitoring Board (DSMB) member 2021-present.

National Institutes of Health, Clinical Trials Review Committee (CLTR), Peer Review, Bethesda, MD, February, 2018.

National Institutes of Health, Neurological, Aging and Muscoloskeletal Epidemiology (NAME) Study Section, Peer Review, Arlington, VA, October 2017.

The Defense Medical Research and Development Program (DMRDP), Peer Review, Washington DC, February 2017.

The Defense Medical Research and Development Program (DMRDP), Peer Review, Washington DC, October 2016.

Department of Defense, The Congressionally Directed Medical Research Program (CDMRP), Clinical and Rehabilitative Medicine Research Program, 2014/15 Neurosensory and Rehabilitation-Pain Management &, Peer Review, Reston, VA, March 2015.

Department of Defense, The Congressionally Directed Medical Research Program (CDMRP), 2014 Autism Research Program, Peer Review, December 2014.

Department of Defense, The Congressionally Directed Medical Research Program (CDMRP), Psychological Health and Traumatic Brain Injury (PHTBI), Peer Review, July 2013.

National Heart, Lung and Blood Institute, NIH, Peer Review, Bethesda, MD, August 2012.

The Defense Medical Research and Development Program (DMRDP), Peer Review, Reston, VA, February 2012.

The Defense Medical Research and Development Program (DMRDP), Peer Review, Reston, VA, February 2010.

Clinical Trial Organizations

RISE (Representation, Inclusion, Support & Engagement) Committee Member, Society for Clinical Trials, 2023-2026.

Contributed Session Moderator, Society for Clinical Trials 2024 Annual Meeting, Boston, MA, May 2024.

Statistical Organizations

Council of Sections Representative, Section on Teaching Statistics in the Health Sciences of the American Statistical Association, 2019-2021.

Member of Poster Committee, 2020 ICSA Applied Statistics Symposium, Houston, Texas, May 17-20, 2020.

Member of Award Committee, 4th International Conference on Big Data and Information Analytics, Houston, Texas, December 17-19, 2018.

Chair of the Section on Teaching Statistics in the Health Sciences of the American Statistical Association, 2015-2018.

Program Chair elect and Program Chair of the Section on Teaching Statistics in the Health Sciences of the American Statistical Association, 2012-2014

President elect, President, and Past President, Houston Area Chapter of the American Statistical Association, 2010-2013.

Yamal JM. Distance Learning Technologies in Introductory Statistics Courses. [Accepted for Roundtable discussion at the Joint Statistical Meetings, August 2011].

Swartz M and **Yamal JM**. Technology in the classroom: New levels of Teaching and Learning Statistics. [Accepted for Roundtable discussion at the Joint Statistical Meetings, August 2014].

National Councils

American Heart Association, Council on Stroke, Brain Health Science Committee, Member. 2025-2026.

University of Texas School of Public Health Service

LEAD ADMINISTRATIVE ROLES

Director of the Coordinating Center for Clinical Trials (CCCT), UTHealth (Aug 2021-2025)
Chair of UTHealth Houston School of Public Health Faculty Council (2024-2025)
Chair-elect of UTHealth Houston School of Public Health Faculty Council (2023-2024)
Chair of CCCT Faculty Search Committee (2021-2023)
Chair of Biostatistics and Data Science Department *Big Data (Data Science) Faculty* Search (Dr. Hongyu Miao is co-chair) (2017-2019)
Chair of Biostatistics and Data Science Department *Non tenure-track Faculty* Search (2018-2020)
Co-chair of Teaching Quality and Efficiency Committee (Dr. Michael Swartz is also co-chair) (2017-)
Co-chair of Biostatistics Introductory Course Development (Dr. Michael Swartz and Dr. Patrick Tarwater also co-chairs) (2017-2020)
Chair of UTHealth Coordinating Center for Clinical Trials Promotion and Training Committee (2018-2019)

COMMITTEE MEMBERSHIPS

UTHealth School of Public Health Faculty Council (2019-)
UTHealth Houston Clinical Trials Operations (CTOPS) Steering Committee, Member (2024-)
UTHealth Institute for Stroke and Cerebrovascular Disease, Steering Committee Member (2022-)
UTHealth Data Advisory Committee (2020-2023)
UTHealth Research Council (2021-)
UTHealth SPH/TMC3 Programming Committee (2021-2024)
UTHealth Houston School of Public Health, Department of Biostatistics and Data

Science, Department Strategic Planning Committee, Member (2023-2025)
UTHealth Houston School of Public Health, Education Committee (2017-)
UTHealth Houston School of Public Health, Data Science Task Force (2017-)
CEPH Executive Committee (2017-2019)
UT SPH Qualititative Course Development (2017)
Biostatistics and Data Science Department *Biostatistics Faculty* Search Committee (2017-2019)
Biostatistics Department Faculty Search Committee for Teaching Faculty (2014, 2018-2020)
Biostatistics Division/Coordinating Center for Clinical Trials Faculty Search Committee (2012-2023)
Comparative Effectiveness Research Faculty Search Committee (2010-2011)
Biostatistics Division Big Data Committee (2013-2014)
Biostatistics Division Bioinformatics and Genetics Degree Committee (2012)
Faculty Council Awards Committee (2012-2013)
Biostatistics Division Introduction Courses Restructuring Committee (2010-present)
Biostatistics Division Faculty Quality of Life/Retention Committee (2011)
Biostatistics Division Panel for tips for new faculty members (2012)
Website Development Committee (2009-2012)
High-Performance Computing Cluster Committee (2009-2010)

RECRUITMENT

Talk at University of Texas-Pan American (Edinburg, TX), Oct, 2013.
Attended University of Houston Downtown career fair (2013)
Talk at University of Houston Downtown (with Dr. Sarah Baraniuk), 2009
Skype interviewed 3 students who have applied for our PhD program, 2013-2014.

JOURNAL ASSOCIATE EDITOR

Trials (2017-2018)

JOURNAL REVIEWER

Medical Physics (2011)
Current Bioinformatics (2011)
Journal of Visualized Experiments (2011)
International Journal of Women's Health (2012-present)
Journal of Biomedical Optics (2012, 2013)
Arteriosclerosis, Thrombosis, and Vascular Biology (2014)
Annals of Medicine (2015)
Scientific Reports (2015, 2016)
BMC Pregnancy and Childbirth (2015, 2016)
BMC Medical Research Methodology (2015)
Neural Processing Letters (2016)
Medical Care (2017)
Lasers in Medicine (2017, 2018)
Lasers in Medical Science (2018, 2021)

Health Aging Research (2017)
Critical Care (2018)
BMC Emergency Medicine (2018)
WIREs Computational Statistics (2019)
Contemporary Clinical Trials Communication (2019)
BMJ Open (2019, 2020)
Journal of Clinical and Translational Science (2020)
PLOS One (2021)
Journal of the American Heart Association (JAHA) (2021)
The Lancet Neurology (2021 (twice))
Biometrics (2021)
Stroke (2019, 2020, 2021, 2022 [twice], 2023 [three times])
Statistics in Medicine (2020, 2022, 2023 [twice])
Nature Medicine (2023, 2024)
Vaccine (2023)
Journal of Neurotrauma (2019, 2020, 2022,2023)
Critical Care Medicine (2015, 2016, 2024 [twice])
JAMA Neurology (2019, 2024)

EXTERNAL REVIEWER FOR PROMOTION

Northwestern University
Boston University
UTHealth McGovern Medical School
University of Pittsburgh

CONFERENCES AND SYMPOSIA

Presentations at National or International Conferences

Yamal J-M, Chen J. Novel response-adaptive randomization incorporating primary and surrogate endpoints. Oral presentation at *45th Annual Meeting of the Society for Clinical Trials*, Portland OR, March 2024.

Yamal J-M, Rajan S, Wang M, Jacob A, Singh N, Parker S, Bowry R, Grotta JC. If an outcome assessment is missed, can the study still accurately collect this outcome at a later point of time? Oral presentation at *44th Annual Meeting of the Society for Clinical Trials*, Baltimore, MD, March 2023.

Czap AL, Grotta JC, Wang M, Parker S, Bratina P, Phan K, Jagolino-Cole AL, Sheth SA, Rajan SS, **Yamal J-M**, Bowry R. Early Recanalization of Large Vessel Occlusions by tPA on the Mobile Stroke Unit. *International Stroke Conference*. March 2021.

Yamal J-M, Derek Brown*, Hai Zhu*, Helen Engle*, Stacia DeSantis, Zhu, H., Michael Swartz, George Williams, Vahed Maroufy, Laila Gindy Bekhet*, David Aguilar, Luis Leon Novelo, Ashraf Yaseen and Hulin Wu (2018) A Retrospective Analysis of Nationwide EHR Data for Evaluating Vasopressor Effects on the Out-

come of Subarachnoid Hemorrhage Patients: Causal Inference Approaches for High-Dimensional EHR Confounding Factors. *The 4th International Conference on Big Data and Information Analytics*. Houston, USA December 2018.

Yamal J-M. Extensions of machine learning methods for classification of objects based on measurements of embedded observations within each object. Oral presentation at *33 Foro Nacional de Estadistica (FNE) y 13 Congreso Latinoamericano de Sociedades de Estadistica (CLATSE)*, Guadalajara, Mexico October 2018.

Yamal J-M, Tilley B. Futility Trials Revisited: Do They Still Have a Place in Clinical Trial Research? Poster presentation at *37th Annual Meeting of the Society for Clinical Trials*, Montreal, Canada.

Yamal J-M, Rajan SS, Parker SA, Bowry R, Wu T-C, Gonzales NR, Persse D, Jacob AP, Barreto AD, Alexandrov AV, Jones W, Grotta JC. Rationale, Design, and Progress of the Benefits of Stroke Treatment Delivered Using a Mobile Stroke Unit Trial. Poster presentation at *International Stroke Conference*, Houston TX February 2017.

Wu T-C, Parker SA, Jagolino AL, Yu A, **Yamal J-M**, Bowry R, Thomas A, Jackson K, Grotta JC. Can Telemedicine Replace An On-Board Vascular Neurologist In Deciding about Tissue Plasminogen Activator Treatment? A Pre-Specified Substudy of the BEST-MSU Study. Oral presentation at *International Stroke Conference*, Houston, TX February 2017.

Vedantam A, **Yamal J-M**, Hwang H, Robertson C, Gopinath S. Factors associated with shunt-dependent hydrocephalus after decompressive craniectomy for traumatic brain injury. Oral presentation at American Association of Neurological Surgeons Meeting, April 2017.

Dewland TA, Yamal JM, Soliman EZ, Davis BR, Magnani JW, Piller LB, Haywood LJ, Pervin HE, Alonso A, Albert CM, Marcus GM. Predictors of Incident Pacemaker Implantation in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT). Poster Presentation at the *American Heart Association Scientific Sessions*, New Orleans, LA. November 2016.

Almaghrabi, Yamal JM, et al. 90 Day Outcome after Reperfusion Therapy of Stroke Patients with Baseline Disability: Unique Observations from Patients Treated on the Mobile Stroke Unit. Poster Presentation at the *American Academy of Neurology 68th Annual Meeting*, Vancouver, BC, Canada, April 2016.

Vedantam A, Yamal JM, Robertson CS, and Gopinath S. Progressive Hemorrhagic Injury After Severe Traumatic Brain Injury: Effect of Hemoglobin Transfusion Thresholds. Oral Presentation at the *2015 Congress of Neurological Surgeons Annual Meeting*, New Orleans, LA, September 2015.

Dewland TA, Soliman EZ, Davis BR, **Yamal JM**, Alonso A, Alpert CM, Simpson LM, Marcus GM. Pharmacologic Prevention of Incident Atrial Fibrillation: Long-Term Follow Up from the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT). Poster Presentation at the *Heart Rhythm Society Scientific Sessions*, Boston, MA. May 2015.

Shams T, Auchus A, Oparil S, Wright C, Wright J, Furlan A, Sila C, Davis B, Pressel S, **Yamal J-M**, Einhorn P, Lemer A. Baseline quality of life and risk of stroke in ALLHAT. Poster Presentation at the International Stroke Conference, Nashville, TN. February 11-13, 2015

Dewland TA, Soliman EZ, Davis BR, Magnani JW, **Yamal JM**, Piller LB, Haywood LJ, Marcus GM. Predictors of Incident Conduction System Disease in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT). Poster Presentation at the American Heart Association Scientific Sessions, Chicago, IL. November 2014.

Tilley BC and **Yamal J-M**. Revisiting the use of Phase II Futility trials to reduce the cost of phase III trials – Are Phase II futility trials futile? [Accepted for poster session presentation at the XXVII International Biometric Conference, Florence, Italy, July 6-11, 2014].

Shah R, Abbasi S, **Yamal J-M**, et al. Impaired fasting glucose and body mass index as determinants of diabetes and mortality in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT): Is the obesity paradox real? [Accepted for poster session presentation at the American Society of Hypertension 29th Annual Scientific Meeting and Exposition, New York, New York, May 16-20, 2014].

Yamal JM, E. Neely Atkinson, Getie Zewdie*, and Dennis D. Cox. Macrolevel Discriminant Analysis: An Extension of Linear Discriminant Analysis for Nested Data. [Accepted for oral presentation at Joint Statistical Meetings 2013, Montreal, Canada, August 3-8, 2013].

Yamal JM, Getie A. Zewdie*, Scott B. Cantor, Dennis D. Cox, E. Neely Atkinson, Calum MacAulay, Kalatu Davies, Michele Follen. Accuracy of optical spectroscopy for the detection of cervical intraepithelial neoplasia and the role of probe placement. [Accepted for poster presentation at Women's Health 2012: The 20th Annual Congress, Washington DC, March 16-18, 2012].

Yamal JM, Getie A. Zewdie*, Scott B. Cantor, Dennis D. Cox, E. Neely Atkinson, Calum MacAulay, Kalatu Davies, Michele Follen. Accuracy of optical spectroscopy for the detection of cervical intraepithelial neoplasia and the role of probe placement. [Accepted for poster presentation at Cancer Detection and Diagnostics Technologies for Global Health Conference, August 2011].

Yamal JM, Cox D, Atkinson EN, MacAulay C, Price R, Follen M. Assessing the Repeatability of Functional Data: Repeatability of Tissue Fluorescence for the Detection of Cervical Intraepithelial Neoplasia. [Accepted for oral presentation at the Joint Statistical Meetings , August 2011].

Yamal JM. Distance Learning Technologies in Introductory Statistics Courses. [Accepted for Roundtable discussion at the Joint Statistical Meetings, August 2011].

Yamal JM and Cox D. Classifying Tissue Samples from Measurements on Cells: Application in Cervical Neoplasia. [Accepted for oral presentation at the Western North American Region of the International Biometric Society/ Institute of Mathematical Statistics annual meeting, June 2009].

Yamal JM and Cox D. Multilevel Classification for Heterogeneous Data. [Accepted for oral presentation at the 38th Symposium on the Interface of Statistics, Computing Science, and Applications, Pasadena, California, May 2006].

Yamal JM and Cox D. Multilevel Classification with Applications in Quantitative Cytology. [Accepted for oral presentation at the Joint Annual Meeting of the Interface and the Classification Society of North America, St. Louis, Missouri, June 2005].

Haygood T, O'Sullivan P, **Yamal JM**, Liles L, Madewell J, Chasen B, Fitzgerald N, Costelloe C, NG C, Sandler C, Lano E, McEnery K, and Murphy, JR. W. Determination of central line position in the superior vena cava or azygous vein on frontal chest radiographs. [Accepted as an electronic exhibit at the 109th annual meeting of the American Roentgen Ray Society, Boston, Massachusetts, April 26 – May 1, 2009].

Abstracts

Czap AL, Rajan SS, **Yamal JM,** Jacob A, Wang M, Parker S, Sambursky J, Bowry R, Grotta JC, Sharrief AZ, Gonzales NR. Mobile stroke unit management associated with reduction in racial disparities in stroke treatment metrics. *Stroke*. 2024 Feb;55(Suppl_1):A88.

Czap AL, Singh N*, Bowry R, Jagolino-Cole A, Parker SA, Bratina P, Gutierrez N, Phan K, Wang M, Sheth SA, Rajan SS, **Yamal J-M**, Grotta JC. Mobile Stroke Unit CTA and Direct Notification of Interventional Team Shortens Door-to-Puncture Time by One Hour. Stroke. 2020 Feb;51(Suppl_1):A99.

Parker DM, Singh N, Gupta R, Taleb S, Tahanan A, **Yamal JM**, Wozny J, Rahbar MH, Silos C, Paladugu S, Norris D. Delaying Admission to Inpatient Rehabilitation Worsens Outcome for Stroke Patients: Detrimental Impact of Covid-19 on Stroke Survivors. Stroke. 2021 Mar;52(Suppl_1):A47-.

Sarah Ahmed*, Yamal J-M, et al. Association of Gulf War Illness-Related Symptoms with Neurotoxicant Exposures Among 1990-1991 Gulf War Veterans Evaluated at the War-Related Illness and Injury Study Center (WRIISC). Military Health System Research Symposium (MHSRS). [Accepted for poster presentation, Sept 2022].

Czap AL, Nour M, Alexandrov AW, Wang M, Singh N*, **Yamal J-M**, Parker S, Bowry R, Grotta JC. Mobile stroke units associated with favorable clinical outcome in large vessel occlusion stroke patients: BEST-MSU Substudy. [Accepted for oral presentation at the International Stroke Conference, New Orleans, Louisiana, February 9, 2022]

Tam S, Du XL, Lewis CM, **Yamal J-M**, Weber RS. The effect of facility volume on treatment guideline compliance and overall survival in oral tongue squamous cell carcinoma. [Accepted for oral presentation at 2018 Quality Care Symposium. *J Clin Oncol* 2018;36(Suppl):Abstract 17.

Singapura P, Tansel A*, Kalakota N, Cruz G, **Yamal J-M**, and Kaur M. Factors contributing to indeterminate QuantiFERON-TB Gold in-tube test results in patients with inflammatory bowel diseases. [Accepted for poster presentation at the DDW 2016 conference, San Diego, California, May 22-24, 2016]

Paula Einhorn, Ravi Shah, Siddique Abbasi, **Jose-Miguel Yamal**, Barry Davis, Joshua Barzilay, Allison Goldfine. Impaired fasting glucose and body mass index as determinants of diabetes and mortality in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT): is the obesity paradox real?Journal of the American Society of Hypertension 1 April 2014 (volume 8 issue 4 Pages e120-e121 DOI: 10.1016/j.jash.2014.03.275)

Robertson C, Hannay HJ, **Yamal, J-M**, Gopinath S, Goodman JC, Tilley BC. Transfusion Threshold for Patients with Severe Traumatic Brain Injury. [Accepted for oral session presentation at Society of Critical Care Medicine's 43rd Critical Care Congress, San Francisco, California, January 9-13, 2014].

Gopinath S, Hannay HJ, **Yamal J-M**, Goodman JC, Tilley B, Robertson C. Thromboembolic Complications Associated with a Transfusion Threshold of 10 g/dl in TBI Patients. [Accepted for oral session presentation at American Association of Neurological Surgeons' 82nd Annual Scientific Meeting, San Francisco, California, April 5-9, 2014].

Graves J, Reisin E, Pressel S, **Yamal J-M**, Davis B. Cardiovascular outcomes using Lisinopril or amlodipine versus chlorthalidone in normal weight, overweight, and obese hypertensive patients in the allhat study. [Accepted for a Poster Presentation at the 24th Scientific Meeting of the International Society of Hypertension Sept 30 – Oct 4, 2012 in Sydney, Australia.]

Yamal JM, Getie A. Zewdie*, Scott B. Cantor, Dennis D. Cox, E. Neely Atkinson, Calum MacAulay, Kalatu Davies, Michele Follen. Accuracy of optical spectroscopy for the detection of cervical intraepithelial neoplasia and the role of probe placement. [Accepted for poster presentation at Women's Health 2012: The 20th Annual Congress, March 16-18, 2012, Washington, DC].

Thittai AK, **Yamal JM**, Ophir J. Small Breast Lesion Classification Performance Using the Normalized Axial-Shear Strain Area Feature. in Proceedings of the Tenth International Tissue Elasticity Conference, Oct 12-15, 2011 in Arlington, Texas.

Tao X, Yin L, Ramirez PT, Yu X, Feng L, Zou Y, **Yamal J-M**, and Yang H. Successful Conservative Treatment of Cervical Pregnancy with Uterine Artery Embolization Post Early Diagnosis with Transvaginal Color Doppler Sonography. *Journal of Minimally Invasive Gynecology* 16, (2009) S23.

Haygood T, O'Sullivan P, Ryan J, Galvan E, **Yamal JM**, Evanoff M, McEntee M, Costelloe C, Madewell J, Sandler C, Lano E, Prennan P. Recognition of images in reader studies: How well can we predict which will be remembered? [Accepted for presentation at the Medical Image Perception Society conference (MIPS XIII) October 19-21, 2009 in Santa Barbara, California.]

Submitted Abstracts

Dewland TA, Soliman EZ, Davis BR, Yamal J-M, Alonso A, Albert CM, Simpson LM, Pressel S, Marcus G. Pharmacologic prevention of incident atrial fibrillation: Long-term follow up from the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT). Submitted.

INVITED PRESENTATIONS

Yamal J-M. Diverse Data: A Hispanic Biostatistician's Perspective in Academia. Rice University's 2024 Hispanic Heritage Month Statistics Colloquium, Houston, Texas, November 11, 2024.

Yamal J-M. If an outcome assessment is missed, can the study still accurately collect this outcome at a later time point? Oral presentation at University of Birmingham, UK, seminar, September 7, 2023.

Yamal J-M. Multiple Instance Learning: Classification of objects based on high-dimensional measurements of embedded observations within each object. Oral presentation at University of Alabama at Birmingham seminar, April 14, 2023.

Yamal J-M. Statistics and Machine Learning Methods for EHR Data: From Data Extraction to Data Analytics/Predictions. Oral presentation at University of California Irvine seminar, (virtual), April 22, 2021.

Yamal J-M. Extensions of machine learning methods for classification of objects based on measurements of embedded observations within each object. Oral presentation at *33 Foro Nacional de Estadistica (FNE) y 13 Congreso Latinoamericano de Sociedades de Estadistica (CLATSE)*, Guadalajara, Mexico October 2018.

Yamal J-M and Aguilar D presenting on behalf of the EHR Working Group. A retrospective analysis of nationwide EHR data for evaluating vasopressor effects on the outcome of subarachnoid hemorrhage patients. Oral presentation at 4th international Conference on Big Data and Information Analytics, Houston, TX December 17-19, 2018.

Yamal J-M, Aguilar D, on behalf of the UT School of Public Health EHR working group. Optical technologies for the detection of cervical intraepithelial neoplasia: algorithm development and novel statistical methodology**. National Cancer Institute**, August 2011.

Optical technologies for the detection of cervical intraepithelial neoplasia: algorithm development and novel statistical methodology**.** University of Houston Downtown, July 2012.

Multilevel Classification. Louisiana State University Health Sciences Center, October 2006.

Multilevel Classification. Abbott Laboratories, September 2006.

MEDIA

Interview with Houston Chronicle "Houston region survives Labor Day weekend without COVID spike", Sept 2020
https://www.houstonchronicle.com/news/health/article/Houston-survives-Labor-Day-without-COVID-spike-15595740.php

Interview with the Dallas Morning News "With so many limitations to coronavirus data, what can we trust?", Sept 2020.

Interview with Victoria Advocate op-ed "Governor is hurting Crossroads businesses with arbitrary virus metric", Oct 2020.

Video interview with Telemundo regarding COVID-19, Sept 2020.

Featured in a story in Houston Chronicle regarding the Mobile Stroke Unit study
https://www.houstonchronicle.com/lifestyle/renew-houston/health/article/memorial-hermann-mobile-stroke-unit-saves-woman-16152086.php

TEACHING EXPERIENCE

Statistical Methods in Clinical Trials (Fall 2024, 21 students)	4.4/5 overall effectiveness
Fundamentals of Data Analytics and Prediction (Spring 2024, 44 students)	4.4/5 overall effectiveness
Statistical Methods in Clinical Trials (Fall 2023, 20 students)	4.4/5 overall effectiveness
Statistical Methods in Clinical Trials (Fall 2022, 40 students)	3.9/5 overall effectiveness

Fundamentals of Data Analytics and Prediction (Spring 2022, 49 students) 4.0/5 overall effectiveness
Introduction to Biostatistics for Public health (Fall 2021, 35 students) 4.3/5 overall effectiveness
Fundamentals of Data Analytics and Prediction (Spring 2021, 41 students) 4.4/5 overall effectiveness
Statistical Methods in Clinical Trials (Fall 2020, 34 students) 4.0/5 overall effectiveness
Fundamentals of Data Analytics and Prediction (Spring 2020, 47 students) 4.4/5 overall effectiveness
Introduction to Biostatistics for Public Health (Fall 2019, 46 students) 4.3/5 overall effectiveness
Fundamentals of Data Analytics and Prediction (Spring 2019, 15 students) 4.4/5 overall effectiveness
Introduction to Biostatistics for Public Health (Fall 2018, 90 students) 4.3/5 overall effectiveness
Fundamentals of Data Analytics and Prediction (Spring 2018, 22 students) 4.6/5 overall effectiveness
Categorical Data Analysis (Fall, 2017, 39 students) 4.2/5 overall effectiveness
Data Science: Analytical Methods I (Spring, 2017, 7 students) 5.0/5 overall effectiveness
Categorical Data Analysis (Spring, 2017, 24 students, co-taught 50%) 4.3/5 overall effectiveness
Categorical Data Analysis (Fall, 2016, 50 students) 4.7/5 overall effectiveness
Categorical Data Analysis (Fall, 2015, 40 students) - 4.3/5 overall effectiveness
Foundations of Biostatistics (Spring, 2015, 48 students) - 4.3/5 overall effectiveness
Categorical Data Analysis (Fall,2014, 49 students) – 4.6/5 overall effectiveness
Data Mining Methodology (Spring, 2014, 6 students) – 4.8/5 overall effectiveness
Foundations of Biostatistics (Fall, 2013, 53 students) – 4.8/5 overall effectiveness
Data Mining Methodology (Spring, 2013, 25 students) – 4.5/5 overall effectiveness
Foundations of Biostatistics (Fall, 2012, 40 students) – 4.8/5 overall effectiveness
Foundations of Biostatistics (Fall, 2011, 58 students) – 4.4/5 overall effectiveness
Data Mining Methodology (Summer, 2011, 8 students) – 4.3/5 overall effectiveness
Foundations of Biostatistics (Spring, 2011, 55 students) – 4.3/5 overall effectiveness
Foundations of Biostatistics (Fall, 2010, 59 students) – 4.4/5 overall effectiveness
Data Mining in Genetic Epidemiology (Summer, 2010, 8 students)
Quantitative Methods (Spring, 2009, 25 students)

Invited Panelist for "Experiential learning: integrating community and research into the curriculum" at UT Health Science Center 2018 Faculty Summer Institute.

STUDENTS

Jeanette Deason, UT School of Public Health, PhD in Biostatistics and Data Science Dissertation Supervisor (2023-)
Jiansong Chen, UT School of Public Health, PhD in Biostatistics and Data Science

Dissertation Chair (2022-)
Lulu Song, UT School of Public Health, PhD in Biostatistics and Data Science
Dissertation Chair (2024-)
Chunhui Gu, UT School of Public Health, PhD in Biostatistics and Data Science
Dissertation Chair (2023-)
Samantha Levy, UT School of Public Health, PhD in Biostatistics and Data Science
Advisor (2024-)
Dissertation Supervisor (2024-)
Ashley Gilliam, UT School of Public Health, MS in Biostatistics and Data Science
Thesis Supervisor (2023-2024)
Sarah Hinds, UT School of Public Health, MS in Biostatistics and Data Science
Thesis Supervisor (2023-2024)
Jingxiao Chen, UT School of Public health, PhD in Biostatistics
Advisor ()
Dissertation Supervisor ()
Graciela Nogueras-Gonzalez, UT School of Public Health, PhD in Biostatistics
Advisor (2/2013-2022)
Dissertation Supervisor (8/2015-2022)
Noopur Singh, UT School of Public Health, PhD in Biostatistics and MS in Biostatistics
Advisor (2016-2024)
Dissertation Supervisor (2020-2024)
Stanley Ta, UT School of Public Health, MS in Biostatistics and Data Science
Thesis Supervisor (2023)
Frances Brito, UT School of Public Health, MS in Biostatistics
Thesis Supervisor (2020)
Emy Thomas, UT School of Public Health, MS in Biostatistics
Thesis Supervisor (2019)
Rubaiya Islam, UT School of Public Health, MS in Biostatistics
Advisor and Thesis Advisor (2018-2019)
Samantha Tam, UT School of Public Health, MPH in Epidemiology
Committee member (2017) "The Effect of Facility Volume on Guideline Compliance and Overall Survival in Oral Tongue Cancer"
Arup Sinha, UT School of Public Health, PhD in Biostatistics
Committee member (12/2015-2017)
Siddharth Karanth, UT School of Public Health, PhD in Management, Policy, and Community Health. Committee Member (2016)
Charles Luswata, UT School of Public Health, MS in Biostatistics
Advisor, Research Advisor (2/2015-12/2015)
Takeo Fujii, UT School of Public Health, MPH in Biostatistics
Advisor, Research Advisor (11/2014-5/2015)
Bin Shi, UT School of Public Health, MS in Biostatistics
Advisor (1/2015-Present)
Hyunsoo Hwang, UT School of Public Health, PhD in Biostatistics
Advisor (08/2012-2018), MS Committee member (05/2012-08/2012)
Hadley Smith, UT School of Public Health, PhD in Health Economics
Committee member (11/2016-2019)

Hannah Pervin, UT School of Public Health, PhD in Biostatistics
Committee member (1/2016-2016)
Emma Enache, UT School of Public Health, PhD in Biostatistics
Advisor (08/2014-2015)
Getie Zewdie, UT School of Public Health, PhD in Biostatistics
Advisor (10/2010-2014)
Maria Laura Rubin, UT School of Public Health, PhD in Biostatistics
Advisor (5/2010-2017)
Dissertation Co-Supervisor (8/2015-2017) "A Joint Logistic Regression and Markov Chain Model With Application In Predicting 6-Month Outcome After Severe Traumatic Brain Injury"
Adriana Ordonez, UT School of Public Health, PhD in Biostatistics
Advisor (7/2012-2014)
Cindy Ma, UT School of Public Health, MS in Biostatistics
Advisor (12/2011-5/2013) "Classification of Cellular Malignancy Associated Changes in Cervical Cancer"
Naru Ikoma, UT School of Public Health, MPH in Epidemiology
Committee member (2017) "Trends of racial disparities in neoadjuvant chemotherapy use in gastric cancer patients in the United States, 2004-2014"
Jae Joon Song, UT School of Public Health, PhD in Biostatistics
Committee member (2015-2016).
Alokananda Ghosh, UT School of Public Health, MS in Biostatistics
Research Advisor, Advisor (08/2011-2014) "A Comparison of Statistical Learning Methods for Multiple Imputation of Unknown Stroke Types in the Systolic Hypertension in the Elderly Program (SHEP) Clinical Trial"
Weilu Han, UT School of Public Health, PhD in Biostatistics
Advisor (2017-2018)
Swetha Mulpur, UT School of Public Health, MPH in Biostatistics
Advisor (08/2011-08/2014)
Rachel Raia, UT School of Public Health, MS in Biostatistics
Advisor (8/2010-1/2012)
Navdeep Pal, UT School of Public Health, MPH in Epidemiology
Advisor (05/2012-08/2012)
Rajeshwari Prasad, UT School of Public Health, MPH in Biostatistics
Advisor (01/2012-8/2014)
Nuvan Rathnayaka, UT School of Public Health, MPH in Biostatistics
Advisor (08/2012-08/2014)
Andrew Emerald, UT School of Public Health, MPH in Biostatistics
Advisor (08/2012-Present)
Cosmina Gingaras, UT School of Public Health, PhD in Epidemiology
Committee member (9/2012-Present)
Insiya Poonawalla, UT School of Public Health, PhD in Epidemiology
Committee member (12/2011-7/2012)
Michelle Ludwig, MD, UT School of Public Health, PhD in Epidemiology
Committee member (10/2011-12/2013)
Michelle Mekky, UT School of Public Health, PhD in Epidemiology

Committee member (12/2010-2014)
Spyridon Moraros, UT School of Public Health, MSPH in Epidemiology
Committee member (12/2010-4/2013)
Aleisha Elliott, UT School of Public Health, MS in Epidemiology
Committee member (12/2010-8/2012)
Sarathi Kalra, MPH in Biostatistics
Thesis advisor (8/2012-12/2012)
Noel Pugh, UT School of Public Health, PhD in Health Management
Committee member (12/2010-Present)
Melissa Karlsten, UT School of Public Health, MPH in Behavioral Science
Committee member (06/2012-4/2013)
Alexis Barboza, UT School of Public Health, PhD in MPACH
Committee member (02/2014-Present)
Wenqian Liang, UT School of Public Health, MPH in Biostatistics
Advisor (08/2014-12/2015)
Saroochi Agarwal, UT School of Public Health, PhD in Epidemiology
Committee member (10/2014-2016)
Emre Yucel, UT School of Public Health, PhD in Epidemiology
Committee member (12/2014-Present)
Hari Sankaran, UT School of Public Health, MS in Epidemiology
Committee member (10/2014-Present)
Cristina Espinosa Da Silva, UT School of Public Health, MPH in Health Promotion and Behavioral Sciences, Committee member (6/2015-8/2015)
Xinshuo Wu, UT School of Public Health, MS in Biostatistics
Thesis advisor (1/2015-8/2015)- "Covariance-regularized macrolevel discriminant analysis with application to cervical cancer screening"
Jie Deng, UT School of Public Health, MS in Epidemiology
Committee member (1/2016-2017)
Joshua Swan, UT School of Public Health, MPH in Epidemiology
Committee member (5/2015-Present)
Manasi Shah, UT School of Public Health, PhD in Epidemiology
Committee member (10/2015-2016) "The Gut Microbiome as A Modifiable Risk Factor In Recurring Communicable and Chronic Non-Communicable Intestinal Diseases"
Meiling Pan, UT School of Public Health, MS in Biostatistics
Thesis advisor (5/2015-2016) "Assessing Factors Associated with Clusters of DNA Index Distribution in Patients with Cervical Neoplasia"
Xerxes Pundole, UT School of Public Health, PhD in Epidemiology
Committee member (12/2015-Present)
Zhe Dong, UT School of Public Health, MS in Biostatistics
Thesis advisor (1/2016-2017)

HONORS AND AWARDS
Winner of 2025 University of Texas School of Public Health Excellence in Teaching Award

Recipient, Distinguished Teaching Professor, University of Texas System Kenneth I. Shine, M.D., Academy of Health Science Education, 2025.

Winner of 2023 Teaching Statistics in the Health Sciences (TSHS) Section's Distinguished Achievement Award.

Winner of 2019 University of Texas School of Public Health Excellence in Teaching Award.

Nominated for 2020 and 2021 University of Texas Research Mentoring Award (with mentee Dr. Ashraf Yaseen)

Nominated for 2021 Association of Schools and Programs of Public Health, Teaching Excellence Award

Nominated for 2024, 2021 University of Texas System Regents' Outstanding Teaching Award.

Nominated for 2021 Research!America, Meeting the Moment for Public Health Award.

Nominated for 2020, 2021, 2023, and 2024 University of Texas System Kenneth I. Shine, M.D., Academy of Health Science Education.

Nominated for 2019 Association of Schools and Programs of Public Health, Early Career Public Health Teaching Award

Nominated for 2014, 2016, 2018, 2019, and 2021 University of Texas School of Public Health Excellence in Teaching Award.

Nominated for 2012 American Statistical Association Section on Teaching Statistics in the Health Sciences, Outstanding Teaching Award.

Rice fellowship 2001-2006

Alliances for Graduate Education and the Professoriate fellowship 2001-2005

National Hispanic Merit Scholarship Program

SKILLS
Fluent Spanish
Software Packages and Programming: S-Plus, R, SPSS, JMP, Stata, Matlab
Computing Platforms: Macintosh OSX, Windows, Unix

PROFESSIONAL MEMBERSHIPS
Society of Clinical Trials, 2014-present
American Statistical Association, 2003-present
Institute of Mathematical Statistics, 2004-present

Last updated September 2025.