

Folefac Désiré Atem, MS Ph.D

Assistant Professor

Dept. Biostatistics and Data science
UT Health Science Center Houston
Houston, TX 77030
(214) 648-1776

Education

Harvard University, Boston, MA, PostDoc, 2014

University of Pittsburgh, Pittsburgh PA, PhD, 2010

Wright State University, Dayton, Ohio, M.S., 2006

University of Buea, Buea, Cameroon, B.Sc, 2002

Special Skills

Language

French and English.

Computer Experience

Software: Pascal, Java, R, M-Plus, S-plus, Stata, SAS, Latex.

SAS Certified Base Programmer

Employment

Assistant Professor, University of Texas Health Science Center-Houston, TX USA 2015—

Sr. Research Assistant, Department of Emergency Medicine, Brigham and Womens Hospital/
Affiliate Harvard Medical School, Boston MA 2011-2012

Contract Biometrician, Pfizer 2/2011-4/2011

Consulting Biostatistician, Allegheny Singer Research Institute - West Penn Hospital, Pitts-
burgh, PA 2006-2010

Research Assistant, University of Pittsburgh, Pittsburgh, PA 2007-2010

Teaching Assistant, Wright State University, Department of Mathematics and Statistics, Dayton
OH, 2004-2006

Honors And Awards

Field Institute Ontario Canada Travel Award 2016

Pre-Doctorate fellowship, NIH-NCI training grant: Fall 2008-Summer 2010

NIH Disadvantage students Award 2006

Professional Affiliations

American Statistical Association (ASA)

Bilingual Grammar School-Buea EX Student Association (BIGSEA)

Professional Services

JPS Annual Research Day Judge 2015—

Recruitment:Talk at University of Houston-Victoria, Nov 2015

Coordinator of the NeuroStatistics Seminar series, Department of Biostatistics, Harvard School of Public Health, Fall 2014

Reviewer Services

Grants Reviewer, DOJ, Office of Justice Programs Bureau of Justice Assistance (BJA) 2017—

Journal of the Society for Clinical Trials 2016—

Statistical Methodology 2016—

International Journal of Medical Science and Public Health 2015—

Journal of Health and Medical Economics 2015—

Journal of Applied Statistics 2010—

Graduate Student Dissertations and Theses Chaired by Me (Primary Advisees)

Shannon Anjelica Allport, MD MPH, MPH-Customized Graduation: May 2016

Masters and Doctoral Committees

Katelyn K. Jetelina, MPH: Ph.D. Dept. of Epidemiology Projected Graduation: 2016.

Alice Blanche Sylvie Djotsa, MS, MA: Ph.D hopeful. Dept. of Epidemiology: 2017.

Other Committees

Member, Academic Council, University of Texas School of Public Health 2016—

Global Health Concentration Advisor for UT Health-Houston, Dallas Campus 2016—

Publications

James West, Sonja E. Stutzman, **Folefac D. Atem**, DaiWai M. Olson, Formatting an Experiential Learning Education Module to Encourage Dysphagia Assessment in Apheresis Patients. *Journal of Clinical Apheresis*, Epub:(Aug.2.2017). doi:10.1002/jca.21572

Folefac D. Atem, Emmanuel Sampene, Thomas J. Greene. Improved Conditional Imputation in a Linear Regression with a Randomly Censored Predictor. *SMMR* 0(0) 113 2017 DOI: 10.1177/0962280217727033

DaiWai M. Olson, Sonja E. Stutzman, **Folefac D. Atem**, Julia Kincaide, Byron Carlisle, Venkatesh Aiyagari. (2017). Establishing Normative Data for Pupillometer Assessment in Neuroscience Intensive Care: The END-PANIC Registry. *JNN*, 49(4), 251-254. .

Folefac D. Atem and Roland Matsouaka. Linear regression with a randomly censored predictor: Estimation Procedures. **In Press: Biostatistics and Biometric.**

Nessim Abu-Saif, Shannon Allport, Ngum Kikah and **Folefac D. Atem**. Association between parental age at onset of CHD or stroke and offspring age at onset of CHD or Stroke: Application to Framingham Study. *Int J Med.Public Health.* 2017,7(1), 23-27.

Michael Rogers, Sonja Stutzman, **Folefac D. Atem**, Samarpita Sengupta, Babu Welch and Daiwai Olson. Intracranial Pressure Values Are Highly Variable After Cerebral Spinal Fluid Drainage. *JNN.0000000000000257* 2017 - Volume 49 - Issue 2 - p 8589 doi: 10.1097 .

Shannon Allport, Ngum Kikah, Nessim Abu-Saif, Fonkem Ekokobe and **Folefac D. Atem** .Parental Age of Onset of Cardiovascular Disease as a Predictor for Offspring Age of Onset of Cardiovascular

Disease. PLoS ONE 2016 11(12): e0163334. doi:10.1371/journal.pone.0163334.

Folefac D. Atem, Jing Qian, Jacqueline E Maye, Keith A Johnson, Rebecca Betensky: Linear Regression with a Randomly Censored Covariate: Application to an Alzheimer's Study. Journal of the Royal Statistical Society: Series C.2016 — DOI: 10.1111/rssc.12164

Frank C. Bandiera, **Folefac D. Atem**, Ping Ma, Michael S. Businelle and Darla E. Kendzor. Post-Quit Stress Mediates the Relation between Social Support and Smoking Cessation among Socioeconomically Disadvantaged Adults. DOI: <http://dx.doi.org/10.1016/j.drugalcdep.2016.03.023>

Folefac D. Atem, Jing Qian, Jacqueline E Maye, Keith A Johnson, Rebecca Betensky: Multiple imputation of a randomly censored covariate improves logistic analysis. Application to an Alzheimer's Study. Journal of Applied Statistics. DOI:10.1080/02664763.2016.1155110

Folefac D. Atem, Julius S. Ngwa , Abidemi Adeniji: Regression models for mixed over-dispersed Poisson and continuous clustered data: Modeling BMI and number of cigarette smokes per day. JMASM MS 1300 issue 11 2012.

Greenspan, Robin L, Suprenant, Valmore, **Atem, Folefac D.** Visualization of Distal Spinal Cord on F-18 FDG PET/CT. Clinical Nuclear Medicine. Feb 2012. Vol 37- Issue 2 p 137-141.

Roy Cho, Venkatram Srinivasan, Nosheen Javed, Darren Traub, Sobhan Kodali and **Folefac D. Atem**. A review of the Hydrate Trial. Cardiology Treatment Strategies Cardiology Vol 3 Issue 1 2011 (64-65).

Rubens Costa, Haifaa Abdulhaq, Bushra Haq, Richard K. Shadduck, Joan Latsko, **Folefac D. Atem**, James M. Rossetti, Entezam Sahovic, John Lister. Activity of Azacitidine in Chronic Myelomonocytic Leukemia.. Cancer 12/2010. DOI: 10.1002/cncr.25759.

Folefac D. Atem, Ravi K. Sharma and Stewart J. Anderson . Fitting Bivariate Multilevel Models To Assess Long Term Changes in Body Mass Index(BMI) and Cigarette Smoking. Journal of Applied Statistics. ISSN 0266-4763 print/ISSN 1360-0532 Online 2010 Taylor Francis.

Roy Cho, Nosheen Javed, Darren Traub, **Folefac D. Atem** and Venkatraman Srinivasan. Oral Hydration and Alkalinization is Non-Inferior to Intravenous Therapy Prevention of Contrast Induced Nephropathy in Patients with Chronic Kidney Disease (HYDRATE TRIAL). A Randomized Prospective Single Center Study, Sobhan Kodali., (JOIC 585), Wiley Interscience, Aug 2010 .

Uma Krishnamurti, Alireza Zarineh, **Folefac D. Atem** and Jan F. Silverman Correlation of Immunohistochemical Expression of p53. 3 Unamplified Chromosome 17 Polysomy in Invasive Breast Carcinoma. Appl Immunohistochem Mol Morphol . 2010 Sep.

Krishnamurti U, Hammers JL, **Atem FD**, Storto PD, Silverman JF. Poor prognostic significance of unamplified chromosome 17 polysomy in invasive breast carcinoma.. Modern Pathology-Nature. 22(8):1044-8, 2009 Aug.

Manuscripts Under Review

Folefac D. Atem and Emmanuel Sampene. Logistic regression modelling with a random censored predictor

Jing Qian, Sy Han Chiou, **Folefac D. Atem**, Keith A Johnson, Rebecca Betensky. Threshold Regression to accommodate a censored covariate.

Folefac D. Atem and Roland A Matsouaka. Survival analysis with a randomly censored covariate.

Bethany L. Lussier MD, Sonja E. Stutzman PhD, **Folefac D. Atem**, Julia D. Kincaide MPH,

Thuy Tien Ho PA, Byron Carlisle RN BSN, Venkatesh Aiyagari MD, DaiWai M. Olson PhD RN. Establishing Normative Data for Pupilometer Assessments in the Neuro-Intensive Care

Cynthia Claassen, Wayne Young, **Folefac D. Atem**, Brenda Gomez, Alan Podawiltz , A. John Rush. Reducing Psychiatric Readmission With Transitional Care Program. Evidence of Efficacy in a Large Public-Sector Hospital System .

Manuscripts In Progress

Vincent Zimmern and **Folefac D. Atem**. Distance to Event Inverse Proportional Weight Imputation for a Randomly Censored Mediator (in progress).

Roland Matsouaka and **Folefac D. Atem**. Linear regression with a right-censored predictor, using inverse probability weighted estimation methods. (in progress)

Frank Bandiera, **Folefac D. Atem**, Raul Caetano and Eliseo J. Pérez-Stable. Smoking and alcohol use among Latinos: Results from the Hispanic Community Health /Study of Latinos.

Michael Rubin, ..., **Folefac D. Atem**,.... Secondary Order Mode for the Management of Brain Dead Organ Donors

Katelyn K. Jetelina, Jennifer M. Reingle Gonzalez, Paula M. Cuccaro, Melissa F. Peskin, **Folefac D. Atem**, Lisa Pompeii, Marc N. Elliott, Valerie A. Earnshaw, Susan L. Davies, Mark A. Schuster. Self-reporting discrepancies of bullying victimization and perpetration measures

Cynthia Claassen, **Folefac D. Atem**, Alan B. Frol, T. Michael Kasher, A. John Rush Can medical claims data be used for nonfatal self-harm surveillance? A data quality analysis.

Presentations/ Abstracts

Olson DM, Aiyagari V, Carlisle B, Ho T, textbf Atem F, Stutzman SE. Eye color does not alter pupilometer readings. Mayo Clinic Neurocritical Care Meeting. Orlando FL. May 2017.

Folefac D. Atem. Linear Regression with a Randomly Censored Covariate: Application to an Alzheimer's Study. *5th International Conference on Alzheimers Disease 2016 & Dementia*, London UK

Folefac D. Atem. Imputation Methods and Survival Regression. *6th International Workshop on the Perspectives on High-Dimensional Data Analysis (HDDA-VI)*. Toronto May-27 -2016.

Jing Qian, **Folefac D. Atem**, and Rebecca Betensky. Threshold Regression with Censored Covariates. *JSM 2014* (210533) .

Folefac D. Atem, Jing Qian and Rebecca A. Betensky. Estimation of the Linear Model with Right-Censored Covariates. *JSM 2013* (182).

Jeremiah D. Schuur , **Folefac D. Atem** , and Arjun K. Venkatesh. Observation Care for ED Patients with Chest Pain: A Statewide Analysis of Society of Chest Pain Centers Metrics. *SCPCP Abstract 27*. 2012.

Neeta Pathe, Sanaullah Khalid, Cyrus Khan, **Folefac D. Atem**, Mark Trombetta, Charles E Geyer Jr. Defining survival for patients with breast cancer with brain metastases. **Committee for the 2011 Breast Cancer Symposium 86598-258. September 8 10, 2011 and ASCO June 2011.**

Folefac D. Atem and Stewart J. Anderson Rationale for choosing explicit Correlation Structure in a Multilevel Analysis with Bivariate Out-comes. *ENAR Spring 2010*.

Robin L. Greenspan, Valmore Suprenant, and **Folefac D. Atem**, Visualization of distal spinal cord on FDG PET/CT: Annual Meeting of the Society of Nuclear Medicine in Toronto June 2009 (151263).

Uma Krishnamurti and **Folefac D. Atem**. Poor prognostic significance of unamplified chromosome 17 polysomy in invasive breast carcinoma, *USA/ Canada Academy of Pathology, April 2007*.

Uma Krishnamurti and **Folefac D. Atem**. Correlation of chromosome 17 polysomy with HER2/NEU immunohistochemistry status, *USA/Canada Academy of Pathology (45180). april 2007*.

Research Experience

Research Fellow (2012 – 2014) Department of Biostatistics, Harvard School of Public Health

Research Assistant- (2011—2012) Department of Emergency Medicine Brigham and Women's Hospital- Harvard Medical School

Research Assistant (2007– 2010) Department of Biostatistics, University of Pittsburgh

Statistical Consultant (2006–2011) West Penn Allegheny Singer Research Institute

Teaching Experience

Instructor: (2015 —) University of Texas Health Science Center-Houston **Graduate courses, PhD and Master Level**

PH1690 :Foundation of Biostatistics (Summer 2016) (Spring 2016) (Fall 2017)

PH1700 :Intermediate Biostatistics (Fall 2015) (Summer 2017)

Teaching Assistant –(2004-2006) Mathematics & Statistics Wright States University

Courses taught: Introduction to Statistics and Algebra