

## Folefac Désiré Atem, MS PhD

### Assistant Professor

Dept. Biostatistics and Data science  
UT Health Science Center Houston  
Houston, TX 77030  
(972) 546-2926

### 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—

**Assistant Professor**, UT Southwestern Medical Center, Dallas, TX USA 2016—

**Research Associate**, 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, Pittsburgh, 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

Mentor at ASA Diversity Mentoring Program 2017—  
Global Health Advisor Dallas Campus 2015—  
Academic Council Member for Dallas Campus 2015—  
JPS Annual Research Day Judge 2015—  
Admission Committee Member UT Health Biost & Data Sc. 2015—  
**Recruitment:**Talk at University of Houston-Victoria, Nov 2015  
**Recruitment:** Talk at University of Houston-Arlington, Nov 2017  
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—  
Statistics in Medicine 2018—  
Biometrical Journal 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

Afrida Faria, MPH, MPH-Customized Graduation: August 2018

## 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. Projected Graduation: 2018.

John Bosco Umejiego MBBS: Ph.D hopeful. Dept. of Epidemiology. Projected Graduation: 2018.

Xiao Yu, MS: Ph.D hopeful. Dept. of Biostat & Data Sc Projected Graduation: 2018

Tiffany Kindratt : PhD hopeful Dept. of Epidemiology. Projected Graduation: 2018

## 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

1. Aoun SG, Stutzman S, Phuong-uyen Vo, El Ahmadi TY, Osman M, Neeley O, Plitt A, Caruso J, Aiyagari V, **Atem F**, White JA, Welch BG, Batjer HH, Olson D. Detection of Delayed Cerebral Ischemia In Aneurysmal Subarachnoid Hemorrhage Using Objective Pupilometry. Accepted Journal of Neurosurgery
2. Jing Qian, Sy Han Chiou, Jacqueline Maye, **Folefac D. Atem**, Keith A Johnson, Rebecca Betensky. Threshold Regression to accomodate a censored covariate. Biometrics (06-2018) (DOI) - 10.1111/biom.12922 .
3. Ifeoluwa Shoyombo, Venkatesh Aiyagari, Sonja Stutzman, **Folefac D. Atem**, Michelle Hill, Stephen Figueroa, Chad Miller, Amber Howard, and DaiWai Olson. Understanding the Relationship Between the Neurologic Pupil Index and Constriction Velocity Values. Scientific Reports, 8(1), 6992. doi:10.1038/s41598-018-25477-7

4. 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:(2018). doi:10.1002/jca.21572
5. **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
6. 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. .
7. **Folefac D. Atem** and Roland Matsouaka. Linear regression with a randomly censored predictor: Estimation Procedures. *Biostat Biometrics Open Acc J*. 2017;1(2):DOI: 10.19080/BBOAJ.2017.01.5555
8. 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*. 10.5530/ijmedph.2017.1.3,7(1), 23-27.
9. 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 .
10. **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
11. 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.
12. 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. *Drug & Alcohol Dependence*, 163, pp.71-76.
13. **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
14. **Folefac D. Atem**, Julius S. Ngwa , Abidemi Adeniji: Regression models for mixed overdispersed Poisson and continuous clustered data: Modeling BMI and number of cigarette smokes per day. *JMASM MS* 1300 issue 11 2012.
15. 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.
16. 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).
17. Rubens Costa, Haifaa Abdulhaq, Bushra Haq, Richard K. Shaddock, 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.
18. **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.
19. 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 .

20. Uma Krishnamurti, Alireza Zarineh, **Folefac D. Atem** and Jan F. Silverman Correlation of Im-munohistochemical Expression of p53. 3 Unamplified Chromosome 17 Polysomy in Invasive Breast Carcinoma. *Appl Immunohistochem Mol Morphol* .2011 Jan;19(1):28-32. doi: 10.1097/PAI.0b013e3181e9bb6f
21. 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

Sameer Al-Obaidi, **Folefac D. Atem**, Sonja Stutzman, Venkatesh Aiyagari, DaiWai M. Olson. Investigating the Association Between Eye Color and Neurologic Pupil Index.

Frank Bandiera, Eliseo Perez-Stable, **Folefac D. Atem**, Raul Caetano, Denise Vidot, Marc Gellman, Elena Navas-Nacher, Jianwen Cai, Gregory Talavera, Gregory Talavera, Neil Schneiderman, Robert Kaplan. At Risk Alcohol Consumption with Smoking by National Background: Results from the Hispanic Community Health Study/Study of Latinos.

**Folefac D. Atem**, Roland A Matsouaka, and Vincent Zimmern. Cox regression with a randomly censored covariates.

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 Pupillometer Assessments in the Neuro-Intensive Care

Alex Andaluz, Dustin DeMoss, Cynthia Claassen, Somer Blair, Jennifer Hsu, Sulaimon Bakre, **Folefac D. Atem**, A John Rush. A Fixed Dose Gabapentin Augmentation Protocol in Alcohol Withdrawal Syndrome: An Intent to Treat Analysis

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.

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. Mechanisms and frequency of violent injuries among victims and perpetrators of bullying

Stefany Ortega-Perez, Venkatesh Aiyagari, **Folefac Atem** Ifeoluwa Shoyombo Michelle Hill Sonja Stutzman DaiWai M. Olson. Pupillary light reflex values as predictors of clinical outcomes in subarachnoid hemorrhage.

Mohamed Osman, **Folefac Atem**, Amber Howard, Stephany Ortega, Daiwai Olson, Sonja Stutzman, Salah Aoun, Ahmed Salem, Venkatesh Aiyagari. Correlation of Objective Pupillometry to Midline Shift in Acute Stroke Patients.

### Manuscripts In Progress

#### Presentations/ Abstracts

Olson DM, Aiyagari V, Carlisle B, Ho T, **Atem F**, Stutzman SE. Eye color does not alter pupillometer 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 Biostatistician-** (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

### Research Support

- 10% UT NNRC Southwestern Neurology and Neurotherapeutics 9-1-2016—.
- Training Grant Program in Biostatistics at UTHSC - SPH  
Project Id 0012018  
Start - End Date 07/01/2016 - 06/30/2019  
Funding Agency NIH  
Project Status Funded  
Faculty Role Mentor  
Total Direct Costs \$ 449,712.00  
Total Indirect Costs \$26,760.00
- United States Department of Agriculture AFRI NRI 2015-68001-23232 Messiah (MPI) 4/1/15 -3/31/19

HEALTHY CAREGIVERS-HEALTHY CHILDREN PHASE II: Integrating Culturally Sensitive Childhood Obesity Prevention Strategies into Policy

- **Percentage cover will be for 2018-2019 academic year. We are still working on the details.**