OMB No. 0925-0001 and 0925-0002 (Rev. 03/2020 Approved Through 02/28/2023)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.  
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Long, Dustin M

eRA COMMONS USER NAME (credential, e.g., agency login): DUSTIN\_LONG

POSITION TITLE: Associate Professor of Biostatistics

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

| INSTITUTION AND LOCATION | DEGREE  (if applicable) | Completion Date  MM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| Tennessee Wesleyan College, Athens, TN | BS | 05/2001 | Mathematics |
| Tennessee Tech University, Cookeville, TN | MS | 05/2006 | Mathematics |
| University Of North Carolina at Chapel Hill, Chapel Hill, NC | PhD | 12/2012 | Biostatistics |

**A. Personal Statement**

As an Associate Professor of Biostatistics, my main research focus is collaboration, specifically with HIV and infectious diseases researchers. In addition to various collaborations, I serve as the Co-Director of the Biostatistics and Analysis component in the Clinical Core of the UAB Center for AIDS Research (CFAR). In this role, I oversee several statisticians and ensure that biostatical needs for all CFAR members are met in terms of grant preparation and data analysis. Similarly, I am a Co-Investigator for the Multicenter AIDS Cohort Study/Women’s Interagency HIV Study Combined Cohort Study, an HIV/AIDS cohort study which has been active in Birmingham since 2013. Outside of HIV, I serve as Associate Director for the Training programs in the UAB Center for Outcomes and Effectiveness Research and Education (COERE) where I provide biostatistical education and mentoring to outcomes researchers across UAB.

**B. Positions and Honors**

Positions and Employment

2020 – Present Associate Professor, Biostatistics, University of Alabama at Birmingham, Birmingham, AL

2016 – 2020 Assistant Professor, Biostatistics, University of Alabama at Birmingham, Birmingham, AL

2012 – 2016 Assistant Professor, Department of Biostatistics, West Virginia University, Morgantown, WV

Other Experience and Professional Memberships

2006 – 2010 NIEHS Pre Doctoral Trainee in Environmental Biostatistics (NIEHS grant T32-ES07018)

2008 – present Member of the American Statistical Association

2010 – present Eastern North American Region of the International Biometric Society

**Honors**

2013 Distinguished Student Paper Award, Eastern North American Region of the International Biometrics Society

2010 Tanner Award for Excellence in Undergraduate Education by a Graduate Teaching Assistants, University of North Carolina, Chapel Hill, NC

**C. Contributions to Science**

1. My methods research has focused on causal inference in the presence of a post randomization variable with effected the outcomes. Principal stratification is one method to allow for causal effect estimates when these issues arise. Two publications dealt with this issue directly with regards to prevention of mother-to-child transmission of HIV via breastmilk using data from the Breastfeeding, Antiretrovirals, and Nutrition Study, first in a competing risk setting and secondly, the use of a baseline covariate to improve estimation of the causal effect. The third used principal stratification to improve determination surrogates of protection in repeated low dose studies of HIV which typically take place in monkeys.
   1. **Long DM**, Hudgens MG. (2012). Comparing competing risk outcomes within principal strata, with application to studies of mother-to-child transmission of HIV. Stat Med, 31(27):3406-18. PMID:22927321.
   2. **Long DM**, Hudgens MG. Sharpening bounds on principal effects with covariates. Biometrics. (2013) Dec;69(4):812-9. PMC4086842.
   3. **Long DM**, Hudgens MG, Wu CD. Surrogates of protection in repeated low-dose challenge experiments. Stat Med. 2015 May 10;34(10):1747-60. PMC4390486.
2. As a member of academic medical centers, I have worked on projects connected to the UAB CFAR and its community partners and other HIV centers across the county.
   1. Dionne-Odom J, Khan MJ, Jauk VC, Szychowski J, **Long DM**, Wallace S, Neely C, Fry K, Marrazzo J, Crain M, Tita ATN. (2019) [HIV Status and Other Risk Factors for Prevalent and Incident Sexually Transmitted Infection during Pregnancy (2000-2014).](https://pubmed.ncbi.nlm.nih.gov/31057323/?from_term=long%2C+dm+hiv&from_pos=1)  Infectious Diseases in Obstetrics and Gynecology. 2019 Apr 1. PMID: 31057323
   2. Sohail M, Levitan EB, Rana AI, Heath SL, Rastegar J, Kempf MC, **Long DM.** (2020) Estimating the First 90 of the UNAIDS 90-90-90 Goal: A Review. Journal of the International Association of Providers of AIDS Care. 2020 Jan-Dec. PMID: 32351155
   3. Van Gerwen OT, Jani A, **Long DM**, Austin EL, Musgrove K, Muzny CA. Prevalence of Sexually Transmitted Infections and Human Immunodeficiency Virus in Transgender Persons: A Systematic Review. Transgender Health. 2020 Jun 1;5(2):90-103. PubMed PMID: 32656353; PubMed Central PMCID: PMC7347015.
   4. Sohail M, Rastegar J, **Long D**, Rana A, Levitan EB, Reed-Pickens H, Batey DS, Ross-Davis K, Gaddis K, Tarrant A, Parmar J, Raper JL, Mugavero MJ. Data for Care (D4C) Alabama: Clinic-Wide Risk Stratification With Enhanced Personal Contacts for Retention in HIV Care via the Alabama Quality Management Group. Journal of Acquired Immune Deficiency Syndrome. 2019 Dec;82 Suppl 3:S192-S198. PubMed PMID: 31764254.
3. While I primarily work with clinical or observational data, I have had the opportunity to work with basic science investigators.
   1. Files JK, Sarkar S, Fram TR, Boppana S, Sterrett S, Qin K, Bansal A, Long DM, Sabbaj S, Kobie JJ, Goepfert PA, Erdmann N. Duration of post-COVID-19 symptoms is associated with sustained SARS-CoV-2-specific immune responses. JCI Insight. 2021 Aug 9;6(15). PubMed PMID: 34143754; PubMed Central PMCID: PMC8410022.
   2. Files JK, Boppana S, Perez MD, Sarkar S, Lowman KE, Qin K, Sterrett S, Carlin E, Bansal A, Sabbaj S, Long DM, Kutsch O, Kobie J, Goepfert PA, Erdmann N. Sustained cellular immune dysregulation in individuals recovering from SARS-CoV-2 infection. J Clin Invest. 2021 Jan 4;131(1). PubMed PMID: 33119547; PubMed Central PMCID: PMC7773371.
   3. Havens PL, Long D, Schuster GU, Gordon CM, Price G, Wilson CM, Kapogiannis BG, Mulligan K, Stephensen CB. [Tenofovir disoproxil fumarate appears to disrupt the relationship of vitamin D and parathyroid hormone.](https://www.ncbi.nlm.nih.gov/pubmed/30260797/) Antivir Ther. 2018;23(7):623-628. Epub 2018 Sep 27. PubMed PMID: 30260797.
   4. Croston TL, Thapa D, Holden AA, Tveter KJ, Lewis SE, Shepherd DL, Nichols CE, Long DM, Olfert IM, Jagannathan R, Hollander JM. Functional deficiencies of subsarcolemmal mitochondria in the type 2 diabetic human heart. Am J Physiol Heart Circ Physiol. 2014 Jul 1;307(1):H54-65. Epub 2014 Apr 28. PubMed PMID: 24778174; PubMed Central PMCID: PMC4080178.
4. Understanding pain is a complex and difficult research area. I have worked with several researchers examining pain and pain management specifically in people living with HIV.
   1. LaRowe LR, Cleveland JD, **Long DM**, Nahvi S, Cachay ER, Christopoulos KA, Crane HM, Cropsey K, Napravnik S, O'Cleirigh C, Merlin JS, Ditre JW. Prevalence and impact of comorbid chronic pain and cigarette smoking among people living with HIV. AIDS Care. 2021 Dec;33(12):1534-1542. Epub 2021 Feb 17. PubMed PMID: 33594924; PubMed Central PMCID: PMC8368072.
   2. Slawek DE, Merlin JS, Owens MA, **Long DM**, Gonzalez CE, White DM, Lopez SA, Heath SL, Goodin BR. Increasing age is associated with elevated circulating interleukin-6 and enhanced temporal summation of mechanical pain in people living with HIV and chronic pain, PAIN Reports: November/December 2020 - Volume 5 - Issue 6 - p e859 doi: 10.1097/PR9.0000000000000859
   3. Merlin JS, **Long DM**, Becker WC, Cachay ER, Christopolous KA, Claborn KR, Crane HM, Edelman EJ, Lovejoy TI, Mathews WC, Morasco BJ, Napravnik S, OʼCleirigh C, Saag MS, Starrels JL, Gross R, Liebschutz JM. Marijuana Use Is Not Associated With Changes in Opioid Prescriptions or Pain Severity Among People Living With HIV and Chronic Pain. J Acquir Immune Defic Syndr. 2019 Jun 1;81(2):231-237. PubMed PMID: 30865181; PubMed Central PMCID: PMC6522289.
   4. Merlin JS, **Long DM**, Becker WC, Cachay ER, Christopoulos KA, Claborn K, Crane HM, Edelman EJ, Harding R, Kertesz SG, Liebschutz JM, Mathews WC, Mugavero MJ, Napravnik S, C OʼCleirigh C, Saag MS, Starrels JL, Gross R. Brief Report: The Association of Chronic Pain and Long-Term Opioid Therapy With HIV Treatment Outcomes. J Acquir Immune Defic Syndr. 2018 Sep 1;79(1):77-82. PubMed PMID: 29771793; PubMed Central PMCID: PMC6092197.

**Complete List of Published Work in MyBibliography:** <http://www.ncbi.nlm.nih.gov/sites/myncbi/dustin.long.1/bibliography/47446290/public/?sort=date&direction=ascending>