

Dr. Dustin Marsh Long, PhD

CONTACT

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PROFESSIONAL

EXPERIENCE **University of Alabama at Birmingham, School of Public Health Department of Biostatistics**

Assistant Professor

July 2016 to Present

West Virginia University, School of Public Health Department of Biostatistics

Assistant Professor

August 2012 to July 2016

Graduate Studies Coordinator

July 2013 to June 2016

West Virginia Clinical and Translational Science Institute Clinical Research Design, Epidemiology, and Biostatistics Program

Co-Chair

September 2015 to July 2016

University of North Carolina-Chapel Hill Department of Biostatistics

Graduate Research Assistant

Spring 2008 to August 2012

- Breastfeeding, Antiretroviral, and Nutrition (BAN) Protocol under Michael Hudgens

Training Grant Recipient

August 2006 to August 2010

- Environmental Biostatistics Training Grant, National Institute of Environmental Health Sciences, 2006-2010

Tennessee Technological University Department of Mathematics

Graduate Teaching Assistant

August 2004 to May 2006

EDUCATION **University of North Carolina**, Chapel Hill, North Carolina, USA

Ph.D., Biostatistics, December 2012

- Dissertation Topic: “Causal Inference and Principal Stratification: Competing Risks, Bounds, and Surrogates”
- Advisor: Michael G. Hudgens

Tennessee Technological University, Cookeville, Tennessee, USA

M.S., Mathematics, May 2006

- Thesis Topic: “A Semiparametric Approach to Linear Regression”
- Advisor: Michael Allen

Tennessee Wesleyan College, Athens, Tennessee USA

B.S., Mathematics, *Cum Laude*, May 2001

- Minor in Chemistry

AWARDS

West Virginia University

- Distinguished Student Paper Award, Eastern North American Region of the International Biometrics Society, Orlando, FL. March 2013

University of North Carolina-Chapel Hill

- Runner-up, JSM 2011 Stat Bowl
- JSM 2011 Stat Bowl Team Champion, as member of UNC Biostatistics team
- The Tanner Award for Excellence in Undergraduate Teaching by Graduate Teaching Assistants, 2010
- Delta Omega Recognition of Service Award (Department of Biostatistics), 2009

Tennessee Technological University

- Mathematics Graduate Teaching Assistantship, 2004-2006
- Stanley Dolzycki Memorial Scholarship, 2006

Tennessee Wesleyan College

- Harriet Reeves Neff Full-Tuition Academic Scholarship, 1997-2001
- Townsend Award (Most Representative Student at TWC), 2001
- Sliger's Jewelers Award (Graduate with Highest GPA), 2001
- L & M Motor's Mathematics Award, 2001
- Ann Vaught Daugherty Award (Outstanding Member of Student Government), 2001
- Student Government Association Treasurer, 1999-2000
- Balfour Award (Outstanding Junior), 2000
- Alpha Chi Honor Society, 2000

COURSES
TAUGHT

University of Alabama at Birmingham

- General Linear Models (BST 623): Fall 2017, 2018

West Virginia University

- Intermediate Biostatistics (BIOS 610): Fall 2013, 2014
- Public Health Statistical Inference 1 (BIOS 612): Fall 2015
- Applied Linear Models (BIOS 620): Spring 2013, 2014, 2015
- Principles of Consulting (BIOS 623): Spring 2013, 2014, 2016
- Consulting Experience (BIOS 624): Spring 2014, 2015, 2016, Summer 2015
- Application of Biostatistics to Public Health Data (BIOS 629): Spring 2015, 2016

University of North Carolina at Chapel Hill

- Principles of Statistical Inference (BIOS 600): Fall 2009

Tennessee Technological University

- Elementary Probability and Statistics (MATH 1530): Fall 2005, Spring 2006

Teaching Assistant

- MATH 1530 (Elementary Probability and Statistics) at Tennessee Tech (Spring 2005); Lectured occasionally, held office hours, and graded for the class of 120 students

CURRENT FUNDING	<p>P30-AI027767 Saag (PI) 06/01/14–05/31/19 UAB Center for AIDS Research The UAB Center for AIDS Research (CFAR) will stimulate and facilitate HIV/AIDS research that has high local, national, and international impact and in so doing will promote the NIH priorities of innovation and effectiveness in AIDS treatment and prevention. Role: Investigator</p> <p>P50-AR060772 Dino (PI) 09/30/16–09/29/19 West Virginia Prevention Research Center WV has one of the worst health profiles in the nation with high rates of tobacco use, obesity and related chronic diseases. The WV prevention research center will partner with state and local health departments and others to conduct applied public health research, evaluation, technical assistance, and training. We expect to provide cost-effective strategies, programs, and products that reduce health disparities and to promote a cultural norm where healthy behavior is accepted and practiced. Role: Subcontract Principal Investigator</p> <p>N/A HSRA Mugavero (PI) 01/01/18–12/31/22 Data 4 CARE Alabama (D4C AL): Clinics Achieving Retention And Engagement by Implementing CDC EBIs via the Alabama Regional Quality Group This project proposes a structural-level approach using readily available clinic-wide appointment data to categorize people living with HIV/AIDS as low-, intermediate-, or high-risk for poor. An evidence-informed intervention will be delivered to intermediate- and high-risk individuals in efforts to increase retention in care and viral suppression. Seven HIV clinics across the state of Alabama will provide data and implement the intervention under the auspices of the team at UAB providing training, data capture and rigorous evaluation. Role: Co-investigator</p> <p>R01MH115754 Merlin (PI) 07/01/18–06/30/23 Evaluation of the Efficacy and Mechanisms of a Novel Intervention for Chronic Pain Tailored to People Living with HIV The overall objective of this proposal is to evaluate a novel theory-based Pain Self-Management intervention, “Skills TO Manage Pain” (STOMP), developed for and tailored to people living with HIV (PLWH). This approach incorporates novel peer co-led group sessions that were created based on our formative intervention development work, and includes patients with comorbidities (e.g., depressive symptoms, addiction history) common among PLWH but typically excluded from chronic pain studies. This study also investigates the impact of a chronic pain intervention on disease-specific HIV outcomes in addition to pain and function. Role: Co-investigator</p> <p>1R01NR018391-01 Webel, Willig (PI) 09/26/18–06/30/23 Impact of physical activity routines and dietary intake on the longitudinal symptom experience of the people living with HIV (PROSPER-HIV) Strategies to reduce the high symptom distress among people living with HIV (PLHIV) are urgently needed. Our study examines how two promising symptom management strategies, physical activity and good dietary intake, impact symptom burden and intensity among PLHIV over time. These strategies can be incorporated into ongoing health promotion initiatives in HIV specialty clinics nationwide. Role: Co-investigator</p>
PREVIOUS FUNDING	<p>Wilson (PI), Long, D. M. (Supporting), et al. “Adolescent Trials Network Coordinating Center,” Sponsored by the Eunice Kennedy Shriver National Institute Of Child Health & Human Development (NICHD) (February 15, 2017 – November 30, 2017).</p>

Gurka, M. (Co-Principal), DeBoer, M. (Co-Principal), **Long, D. M.** (Co-Investigator, 10%), et al., “An Ethnicity-Specific MetS Severity Score to Assess Risk: The Jackson Heart Study,” Sponsored by National Heart, Lung, and Blood Institute (NHLBI), Federal, (August 15, 2014 - October 31, 2015).

O’Hara-Tompkins, N. (Co-Principal), Fitch, C. (Principal), **Long, D. M.** (Supporting), et al., “The West Virginia Healthy Children Project,” Sponsored by the Centers for Disease Control (CDC), Federal, (October 1, 2014 - September 29, 2017).

Hodder, S. (Principal), **Long, D. M.** (Supporting), et al., “West Virginia IDEA-CTR Clinical Research Design, Epidemiology, and Biostatistics Program,” Sponsored by National Institute of General Medical Sciences (NIGMS), Federal. (August 15, 2012 - July 26, 2016).

Misra, R (Principal), **Long, D. M.** (Co-Investigator), et al., “West Virginia Community Genetics Project,” Sponsored by National Heart, Lung, and Blood Institute (NHLBI), Federal. (September 24, 2012 - September 23, 2013).

PUBLICATIONS

(PEER-

REVIEWED)

(* denotes presenter)

PRESENTATIONS

Workman, C., Cottrell, L. A.*, Tompkins, N., Jarrett, T., Ludwick, H., Ramsey, Z., Northrup, K., **Long, D. M.**, “Assessing Social Determinant Differences in Physical Activity Among Rural Children,” American Public Health Association Annual Meeting, San Diego, CA. (November 2018)

Heudebert, J. P.*, Tamhane, A., Burkholder, G., Westfall, A. O., **Long, D. M.**, Dionne-Odom, J., “Sexually transmitted infection rates in men with HIV prescribed erectile dysfunction medication,” 2018 STD Prevention Conference, Washington, DC. (August 2018)

Merlin, J. S.*, **Long, D. M.**, Becker, W., Cachay, E. R., Christopoulos, K. A., Crane, H. M., Edelman, E. J., Harding, R. Liebschutz, J., Mathews, W. C., Mugavero, M. J., Napravnik, S., Saag, M., Starrels, J., Gross, R., “The association of pain and long-term opioid therapy with hiv treatment outcomes,” Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, Washington (March 2018)

Merlin, J. S.*, Westfall, A. O., **Long, D. M.**, Davies, S., Saag, M., Demonte, W., Young, S., Kerns, R. D., Bair, M. J., Kertesz, S., Turan, J. M., Kilgore, M., Clay, O. J., Starrels, J., Pekmezi, D., Johnson, M. O., “A Randomized pilot trial of a novel behavioral intervention for chronic pain tailored to individuals with HIV,” AIDSImpact Conference, Cape Town, South Africa (November 2017)

O’Hara Tompkins, N., Cottrell, L., Grant, J., Northrup, K., Ramsey, Z.*, **Long, D. M.**, Bassler, J., “Physical education and physical activity policy implementation in West Virginia elementary schools,” American Public Health Association Annual Meeting, Atlanta, GA. (November 2017)

Baus, A.*, Coben, J. H., Zullig, K., **Long, D. M.**, Pollard, C., Mullett, C., Jarrett, T., Cochran, J., Taylor, H., “Modeling Electronic Health Record Data to Identify Older Adults at Risk for Unintentional Falls,” American Public Health Association Annual Meeting, Atlanta, GA. (November 2017)

Hunter, A.*, **Long, D. M.**, Davidov, D., Rockett, I. R. H., “Comparison of Characteristics of

Child Maltreatment Re-report in Periods Before and After CAPTA 2010,” American Public Health Association Annual Meeting, Atlanta, GA. (November 2017)

Hunter, A.*,**Long, D. M.**, Rockett, I. R. H., “Long Term Effectiveness of Differential Response in Preventing Child Maltreatment Re-Report,” American Public Health Association Annual Meeting, Denver, CO. (November 2016)

Long, D. M.*, Wheeler, M., Park, R., Bailer, J., Smith, R., “Erroneous Hormetic Effect Identification in Cox Models Due to Polynomial Splines,” 2016 Joint Statistical Meetings, Chicago, IL. (August 2016)

O’Hara-Tompkins, N.* , Cottrell, L., **Long, D. M.**, Jarrett, T., Northrup, K., “Move to Achieve: Establishing a Statewide Baseline of Physical Education and Physical Activity Practices and Examining Impact on Elementary Students’ Academics and Health,” American Public Health Association Annual Meeting, Chicago, IL. (November 2015).

Leung, A.* , Con, J., Vaughan, R., **Long, D. M.** , Khan, U., Knight, J., Schaefer, G., Wilson, A., “Pediatric Secondary Overtriage in a Statewide Rural Trauma System,” Templeton Trauma Symposium, Pittsburgh, PA. (March 2015).

Long, D. M.*, Sasala, E. A., “Is More Data Better? Comparison of using entire United States versus West Virginia only responses in predicting county level smoking rates using publicly available data,” Annual Meeting of the Eastern North American Region of the IBS 2015, Miami, FL. (March 2015).

Con, J.* , **Long, D. M.**, Sasala, E. A., Kahn, U., Knight, J., Schaefer, G., Wilson, A., “Factors Associated with Secondary Overtriage in a Statewide Rural Trauma System,” 10th Annual Academic Surgical Congress, Las Vegas, NV. (February 2015).

Leung, A.* , Con, J., Vaughan, R., **Long, D. M.**, Khan, U., Knight, J., Schaefer, G., Wilson, A., “Pediatric Secondary Overtriage in a Statewide Rural Trauma System,” E.J. Van Lier Memorial Convocation & HSC Research Day, Morgantown, WV. (February 2015).

Misra, R.* , Dino, G., Frey-McClung, V., Crowder, L., **Long, D. M.**, Barr, T., “WV GENOME Evaluation of the Surgeon General’s Diabetes Risk Family Health History Tool in Rural Patients,” American Public Health Association Annual Meeting, New Orleans, LA. (November 2014).

Misra, R.* , Dino, G., Crowder, L., Prendergast, L., Frey-McClung, V., **Long, D. M.** , Mellow, J. , “WV GENOME Evaluation of the Surgeon General’s Diabetes Risk Family Health History Tool in Rural Patients.” American Public Health Association Annual Meeting, New Orleans, LA. (November 2014).

Misra, R.* , Dino, G., Crowder, L., Prendergast, L , Frey-McClung, V , **Long, D. M.** , Mellow, J. , Diabetes Symposium, “Evaluation of the Surgeon General’s Diabetes Risk Family Health History Tool in Rural Patients.” Charleston WV. (October 16, 2014).

Conway, B.* , **Long, D. M.**, May, M. E., 74th Annual Scientific Sessions of the American Diabetes Association, “Glycemic Control and Fracture Risk in Geriatric Patients with Diabetes,” American Diabetes Association, San Francisco. (June 2014).

Long, D. M. and Hudgens, M. G.* [Invited], “Evaluation of Surrogates of Protection in Pre-clinical HIV Vaccine Trials”, Eastern North American Region of the International Biometrics Society, Baltimore, MD. (March 2014).

Riffon, M.* and **Long, D. M.**, “A simulation study comparing confidence interval calculations for age-adjusted standardized rates”, E.J. Van Liere Memorial Convocation & HSC Research Day, Morgantown, WV. (February 2014).

Misra, R.* , Balagopal, P., Raj, S., **Long, D. M.**, “Are vegetarian Asian Indians at lower risk for diabetes and metabolic syndrome than non-vegetarians?”, American Public Health Association Annual Meeting, Boston, MA. (November 2013).

Long, D. M.* and Hudgens, M. G. ,“Sharpening bounds on principal effects with covariates.” Eastern North American Region of the International Biometrics Society, Orlando, FL. (March 2013).

Bonasso, P.* , Riffon, M., Lucke-Wold, B., Knight, J., **Long, D. M.**, Wilson, A., “Country Roads take me home: Delay in Trauma Transport during WVU Football games.” E.J. Van Liere Memorial Convocation & HSC Research Day. (March 2013).

Mallow, J.A., “Mobile Health (mHealth) applications for Chronic Illness in Rural Healthcare Settings.” WVU Linking Innovation Industry and Commercialization (LIINC) (member of research team)(February 2013)

Long, D. M.* and Hudgens, M. G. ,“Estimating the effect of interventions to prevent postnatal mother-to-child transmission of HIV.” XIX (19th) International AIDS Conference or AIDS 2012, Washington, DC. (July 2012).

Long, D. M.* and Hudgens, M. G. ,“Comparing Competing Risks Outcomes Within Principal Strata.” Eastern North American Region of the International Biometric Society, Miami, Fl., (March 2011).

Long, D. M.* and Hudgens, M. G. ,“Comparing Competing Risks Outcomes Within Principal Strata.” Causal Inference Research Group, UNC-Chapel Hill, (May 2011).

Long, D. L., Preisser, J. S., Phillips, C., **Long, D. M.***, “A Quasi-Likelihood Analysis of Patient Satisfaction following Orthognathic Surgery” 2010 Joint Statistical Meetings (August 2010)

Chasela, C. * , Hudgens, M., Jamieson, D., Martinson, F., Kazembe, P., Mofolo, I., **Long, D. M.**, Soko, A., Smith, S.B., and van der Horst, C., “Both maternal HAART and daily infant nevirapine (NVP) are effective in reducing HIV-1 transmission during breastfeeding in a randomized trial in Malawi: 28 week results of the Breastfeeding, Antiretroviral and Nutrition (BAN) Study, ”5th IAS Conference on HIV Pathogenesis, Treatment and Prevention: Cape Town, South Africa. WELBC103, 2009.

MEMBERSHIPS

- American Statistical Association
- International Biometric Society (Eastern North American Region (ENAR))

SERVICE: STUDENTS ADVISED

- Active
 - Audrey Moore, PhD (UAB)
 - Mei Li, MSPH (UAB)
 - Jiaying Hao, MS (UAB)

- Complete
 - John Bassler (MS WVU), Lucas Moore (MS WVU), Emily Sasala (MS WVU), Mark Riffon (MPH WVU)

SERVICE:
COMMITTEE

- Doctoral (Active)
 - Mohammed Alqahtani (Rehabilitation Sciences, UAB)
 - Lindsey Elliott (Clinical Psychology, UAB)
- Doctoral (Complete)
 - Traci LeMasters (Pharmacy, WVU)
 - Adam Baus (Public Health Sciences (Social and Behavioral Sciences), WVU)
 - Amy Hunter (Epidemiology, WVU)
- Master's (Complete)
 - Yue May Zhang (MS Biostatistics, UAB)
- Master's (Active)
 - Mei Li, MSPH, Jiaying Hao, MS (Biostatistics, UAB)
 - Stager, Lindsay (Psychology, UAB)

SERVICE:
REVIEWER

- Manuscripts
 - *Journal of Research on Educational Effectiveness*
 - *Journal of AIDS and HIV Research (JAHR)*
 - *Biometrics*
 - *Journal of the American Board of Family Medicine (JABFM)*
 - *Trials*
 - *Statistics in Medicine*
- Grants
 - Congressionally Directed Medical Research Programs (CDMRP), 2015-2018
 - UAB CFAR Developmental Core Pilot Program, 2017-present
 - West Virginia Clinical and Translational Sciences Pilot Grant Program, 2015

SERVICE:
FACULTY
ENGAGE-
MENT

University of Alabama at Birmingham

- Department of Biostatistics Recruitment and Retention Committee, 2017 to present
- Department of Biostatistics Comprehensive/Qualifying Exam Committee, 2017 to present
- School of Public Health Admissions and Graduation Committee, 2017 to present
- School of Public Health Scholarship Committee, 2018 to present
- School of Public Health Educational Policy Committee (Biostatistics alternate), 2017 to present
- Center for AIDS Research Executive Committee, 2016 to present

West Virginia University

- School of Public Health Information Technology Committee (2012-2016)
- School of Public Health Student Outreach and Recruitment (2013-2016)
- School of Public Health MPH Student Poster Evaluator (2012-2016)
- Judge, [Van Liere Convocation & HSC Research Day](#), 2014, 2015
- University-wide Academic Computing Advisory Committee
- School of Public Health Dean's Council, Biostatistics Representative (October 2015 to July 2016)