

# Deborah M. Hurley Curriculum Vitae

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## CONTACT INFORMATION

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Home: 1057 Jones Road  
Irmo, SC 29063  
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Office of Public Health Statistics and Information Services  
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## EDUCATION

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<b>Ph.D.</b>	<b>Epidemiology (Doctoral Candidate, ABD)</b> Arnold School of Public Health, University of South Carolina <b>Dissertation Title:</b> <i>A Multilevel and Spatial Analysis of Oral and Pharyngeal Cancer in South Carolina</i>	(exp: May 2019) Columbia, SC
<b>M.S.P.H.</b>	<b>Biostatistics</b> Arnold School of Public Health, University of South Carolina <b>Thesis Title:</b> <i>An Evaluation of Splines in Linear Regression</i>	August 2003 Columbia, SC
<b>B.S.</b>	<b>Mathematics</b> Campbell University	May 1995 Buies Creek, NC

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## AREAS OF INTEREST

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Epidemiology: Cancer, Social Determinants of Health, Methods, Military Health, Pediatrics, Vaccines/Immunization

Biostatistics: Survival Analysis, Multi-level Analysis, Spatial Analysis

Administrative: Process improvement

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## MANAGEMENT and RESEARCH EXPERIENCE

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**South Carolina Department of Health and Environmental Control** 2006–present  
Bureau of Health Improvement & Equity Columbia, SC  
South Carolina Central Cancer Registry (SCCCR)

**SCCCR Assistant Director/Epidemiologist/Research Coordinator**

- assist SCCCR Director in registry operations, grant management, and supervision of staff
- represent SCCCR at state and national professional meetings, collaborations, and events.
- oversee all data use for internal/external purposes
- evaluate, analyze, interpret, and present cancer data for internal/external purposes
- collaborate with researchers to facilitate data application process, provide expertise on appropriate use of data (variables, methods), and assist with manuscript writing/editing

**Vista Research, LLC** 2005–2010  
**Research and Statistical Consultant** (subcontractor) Irmo, SC

- provided epidemiological/statistical support to medical residents and faculty at the University of South Carolina School of Medicine (USC SOM), University Specialty Clinics, Department of Family and Preventive Medicine
  - advised medical residents and USC SOM faculty on research projects/activities
  - provided epidemiological and statistical concepts and methods instruction to medical residents via targeted journal article reviews

**University of South Carolina** 2001–2006  
Arnold School of Public Health Columbia, SC  
Department of Epidemiology and Biostatistics

**Statistical Research Associate** 2005–2006

- statistical and data management consultant for students and faculty
  - instructed/advised students and faculty (as appropriate) on compiling, organizing, managing, and analyzing data for coursework, thesis, dissertation, and research projects necessary to satisfy educational requirements and to achieve the teaching mission of the school
  - worked to improve school-wide access and use of large public datasets (e.g., Vital Records, BRFSS, NHANES, NHIS, SEER)

**Project Coordinator/Research Associate (CDC funded grant)** 2001–2005

- coordinated/managed pediatric asthma surveillance grant
  - oversaw IRB approvals/continuations and grant renewals
  - hired and supervised graduate assistants
- provided epidemiologic and statistical support
  - participant enrollment, data collection
  - managed complex database, analyzed survey and environmental exposure data

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## TEACHING EXPERIENCE

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**NAACCR Webinar Series (Instructor, Survival Analysis)** **June 2011**  
*Best Practices for Developing and Working with Survival Data*

**University of South Carolina** **2000, 2004**  
Arnold School of Public Health Columbia, SC  
Department of Epidemiology and Biostatistics  
Graduate Teaching Assistant (*Concepts and Methods of Biostatistics*) 2000, 2004  
Graduate Teaching Assistant (*Epidemiological Methods I*) 2004  
Independent Study (*Teaching Methods in Biostatistics from an Epidemiology Perspective*) 2004

**Fort Bragg Schools** **1996–1997**  
Substitute Teacher (K-6) Fort Bragg, NC

**Triton High School** **1995–1996**  
Mathematics Instructor (9-12) Erwin, NC

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## OTHER EXPERIENCE

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**Southland Log Homes** **2000–2001**  
Production Department  
Irmo, SC  
Quality Assurance Specialist

- generate list of (and calculate quantities for) all building materials and components needed to build home per architectural building plans
- provide mathematical support for software program algorithms

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## SOFTWARE SKILLS

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<b>SAS</b>	– Extensive programming/experience
<b>MS Office Products</b>	– Extensive experience
<b>SEER*Stat</b>	– Extensive experience
<b>SEER*Prep</b>	– Moderate experience
<b>SaTScan</b>	– Moderate experience
<b>R</b>	– Limited experience
<b>STATA</b>	– Limited experience
<b>SUDAAN</b>	– Limited experience
<b>NCSS/PASS</b>	– Limited experience
<b>ArcView/ArcGIS</b>	– Limited experience
<b>SPSS</b>	– Limited experience
<b>Epi Info</b>	– Limited experience
<b>EpiData</b>	– Limited experience

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**PROFESSIONAL ACTIVITIES**

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<b>COMMITTEES</b>	Survival Analysis Work Group (Subcommittee of the Research and Data Use Committee of the North American Association of Central Cancer Registries (NAACCR)) <b>Committee Co-chair</b>	2008-2016
	National Death Index Work Group (Centers for Disease Control and Prevention, Nation Program of Cancer Registries) <b>Committee Member</b>	2007-2008
	SC Cancer Control Advisory Committee <b>SCCCR Representative to CCAC</b>	2018-present
	SC Cancer Control Advisory Committee Surveillance Subcommittee (CCAC-SS) <b>SCCCR Representative to CCAC-SS</b>	2006-present
<b>HONORS</b>	Delta Omega Honor Society Dean's List	
<b>MEMBERSHIPS</b>	American Public Health Association (APHA) National Cancer Registrar's Association (NCRA) North American Association of Central Cancer Registries (NAACCR, via SCCCR) Society for Epidemiologic Research South Carolina Cancer Alliance South Carolina Cancer Registrar's Association South Carolina Public Health Association	
<b>REVIEWER</b>	Journal for Healthcare Quality APHA Annual Meetings (Epidemiology Section: abstract submissions) NAACCR Annual Meetings (abstract submissions)	

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## PUBLICATIONS

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Bea VJ, Cunningham JE, Alberg AJ, Burshell D, Bauza CE, Knight KD, Hazelton TR, Varner H, Kramer R, Bolick S, **Hurley D**, Mosley C, Ford M. Alcohol and Tobacco Use in an Ethnically Diverse Sample of Breast Cancer Patients, Including Sea Island African Americans: Implications for Survivorship. *Frontiers in Oncology* 8 (September 2018).

Allemani C, Matsuda T, Di Carlo V, Harewood R, Matz M, Nikšić M, Bonaventure A, **et al**. Global Surveillance of Trends in Cancer Survival 2000–14 (CONCORD-3): Analysis of Individual Records for 37 513 025 Patients Diagnosed with One of 18 Cancers from 322 Population-Based Registries in 71 Countries. *The Lancet* 0, no. 0 (January 30, 2018).

Rotejanaprasert C, Lawson A, Bolick-Aldrich S, **Hurley D**. Spatial Bayesian surveillance for small area case event data. *Stat Methods, Med Res.* 2016 Aug;(25):1101-17.

Samson ME, Porter NG, **Hurley DM**, Adams SA, Eberth JM. Disparities in breast cancer among African American and European American women in South Carolina. *South. Med. J.* Accepted for publication in September 2015.

Xirasagar S, Li YJ, Hurley TG, Tsai MH, Hardin JW, **Hurley DM**, Hebert JR, de Groen PC. Colorectal cancer prevention by an optimized colonoscopy protocol in routine practice. *Int. J. Cancer.* Published online (early view) 2014 Sep 30.

Wagner SE, **Hurley DM**, Hebert JR, McNamara C, Bayakly AR, and Vena JE. Cancer mortality-to-incidence ratios in Georgia: Describing racial cancer disparities and potential geographic determinants. *Cancer.* 2012 Aug 15; **118**(16): p. 4032-45.

Allemani, C., **et al**. Global surveillance of cancer survival 1995–2009: analysis of individual data for 25 676 887 patients from 279 population-based registries in 67 countries (CONCORD-2). *Lancet* 2015; **385**: 977–1010.

**Hurley DM**, Ehlers ME, Mosley-Broughton CM, Bolick-Aldrich SW, Savoy JE. *Cancer in South Carolina, USA 1996-2005: South Carolina Central Cancer Registry Ten Year Report*. South Carolina Department of Health and Environmental Control, Office of Public Health Statistics and Information Services, Central Cancer Registry. Columbia, SC. 2009.

Savoy JE, **Hurley DM**, Brandt HM, Bolick-Aldrich SW, Ehlers ME. Cervical cancer in South Carolina: epidemiologic profile. *J S C Med Assoc.* 2009; **105**(7): p. 227-30.

Hebert JR, Daguise VG, **Hurley DM**, Wilkerson RC, Mosley CM, Adams SA, Puett R, Burch JB, Steck SE, Bolick-Aldrich SW. Mapping cancer mortality-to-incidence ratios to illustrate racial and sex disparities in a high-risk population. *Cancer.* 2009; **115**(11): p. 2539-52.

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## **PUBLICATIONS (continued)**

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Adams SA, Fleming A, Brandt HM, **Hurley D**, Bolick-Aldrich SW, Bond SM, Hebert JR. *Racial disparities in cervical cancer mortality in an African American and European American cohort in South Carolina*. J S C Med Assoc. 2009; **105**(7): p. 237-44.

**Hurley D**, Hussey J, McKeown RM, Addy C. *An evaluation of splines in linear regression*. in *Proceedings of the 31st Annual SAS® Users Group International Conference*. 2006. San Francisco, CA: SAS Institute Inc.

Hebert JR, Adams SA, Daguise VG, **Hurley D**, Smith EW, Purdon C, Lawson A, Mitas M, Reed CE. *Esophageal cancer disparities in South Carolina: early detection, special programs, and descriptive epidemiology*. J S C Med Assoc. 2006; **102**(7): p. 201-9.

Brandt HM, Modayil MV, **Hurley D**, Pirisi-Creek LA, Johnson MG, Davis J, Mathur SP, Hebert JR. *Cervical cancer disparities in South Carolina: an update of early detection, special programs, descriptive epidemiology, and emerging directions*. J S C Med Assoc. 2006; **102**(7): p. 223-30.

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## **SELECTED PRESENTATIONS/POSTERS**

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Clugstone S, Lynes C, **Hurley D**, Nitcheva, Davis HT. (June 2017). *Screening recommendation and breast cancer incidence in South Carolina: A BRFSS and cancer registry analysis*. Annual Meeting of the North American Association of Central Cancer Registries (NAACCR), Albuquerque, NM. Oral Presentation.

Walter G, Lewis T, Smoak L, **Hurley D**, Berger FG. (April 2017). *Removing Cost Barriers for Colorectal Cancer Screening Under the South Carolina State Health Plan for Subscribers and Their Families*. 19<sup>th</sup> Annual National Conference, 2017 Dialogue for Action: On Cancer Screening & Prevention, McLean, VA. Poster Presentation.

Ford ME, Bauza CE, Brown ET, Alberg AJ, Kistner-Griffin E, Spruill IJ, Bryant DC, Esnaola NF, Jefferson MS, Whitfield K, Kramer RM, Bolick S, **Hurley D**, Mosley C, Hazelton TR; Bea VJ, Burshell DR, Knight K, Cunningham JE. (December 2014). *BMI and Physical Activity Rates in Diverse BRCA Survivors*. 2014 NIH/NIMHD Health Disparities Conference. National Harbor, MD. Poster Presentation.

Ford ME, Cunningham JE, Brown ET, Spruill IJ, Alberg AJ, Bryant DC, Charles KD, Esnaola NF, Jefferson MS, Whitfield K, Kramer RM, Bolick S, **Hurley D**, Mosley C, Hazelton TR, Bea VJ, Burshell DR, Singh S, Kistner-Griffin E. (October 2012). *Design of a Feasibility Study of Breast Cancer Candidate Genes in Three Ethnic Groups*. Sixth American Association for Cancer Research Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved. San Diego, CA. Poster Presentation.

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## PRESENTATIONS/POSTERS (continued)

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Ford ME, Bauza CE, Brown ET, Alberg AJ, Kistner-Griffin E, Spruill IJ, Bryant DC, Charles KD, Esanola NF, Jefferson MS, Whitfield K, Kraer RM, Bolick S, **Hurley D**, Mosley C, Hazelton TR, Bea VJ, Burshell DR, Cunningham JE. (October 2012). *Evaluating Overweight/Obesity and Physical Activity Rates in an Ethnically Diverse Sample of Breast Cancer Survivors*. South Carolina Clinical and Translational Research Institute (SCTR) Obesity Retreat, Medical University of South Carolina. Charleston, South Carolina. Oral Presentation.

Hebert JR, Daguise VG, **Hurley DM**, et al. (June 2011). *Mapping Cancer-to-Incidence Ratios to Illustrate Racial and Sexual Disparities in a High-Risk Population*. Annual Meeting of the North American Association of Central Cancer Registries (NAACCR), Louisville, KY. Oral Presentation (**Hurley** presented for Dr. James Hebert, University of South Carolina).

**Hurley DM**. (June 2010). *Streamlining Research Collaboration with State Cancer Registries*. Annual Meeting of the North American Association of Central Cancer Registries (NAACCR), Quebec, Canada. Oral Presentation.

**Hurley DM**. (May 2010). *Streamlining Research Data Requests*. Centers for Disease Control and Prevention, National Program of Cancer Registries, Annual Program Director Meeting. Atlanta, GA. (Invited speaker) Oral Presentation.

**Hurley D**, Hussey J, McKeown R, Addy C. (November 2004). *An Evaluation of Splines in Linear Regression*. Annual Meeting of the American Public Health Association (APHA), Washington DC. Oral Presentation (Innovations in Biostatistical Methods and Applications section).

Aldrich T, **Hurley D**. (June 2004). *Emergency department surveillance for asthma in South Carolina*. 2004 CSTE Annual Conference “Balancing Tradition with the “New Normal” in Epidemiology”, Boise, Idaho. Poster Presentation.

**Hurley D**, (April 2004). **An Evaluation of Splines in Linear Regression**. South Carolina Chapter of the American Statistical Association (2004 Annual Meeting). Columbia, SC. Oral Presentation.

**Hurley D**, Aldrich T. (March 2004). *Surveillance for asthma using emergency department data in South Carolina*. 2004 National Environmental Public Health Tracking Conference, Philadelphia, PA. Poster Presentation (accepted but was unable to attend).

Aldrich T, **Hurley D**. (November 2003). *Asthma surveillance and emergency department-based intervention: lessons learned*. Managing Pediatric Asthma Emergency Department Demonstration Program, 2003 AAAAI Annual Grantee/National Advisory Committee Meeting, San Francisco, CA. Oral Presentation.

**Hurley D**, Puett R and Aldrich T. (November 2002). *GIS-based asthma surveillance. Managing Pediatric Asthma Emergency Department Demonstration Program*, AAAAI 2002 Annual Grantee/National Advisory Committee Meeting, Las Vegas, NV. Oral Presentation.

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## PRESENTATIONS/POSTERS (continued)

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Aldrich T, Puett R and **Hurley D.** (October 2002). *Spatial Statistical Methods For Surveillance of Asthma in Small Areas.* *Living Well with Asthma*, 2002 CDC National Asthma Conference, Atlanta, GA. Oral Presentation.

Childers B, Semeniuc R, Feigley CE and **Hurley D.** (October 2002). *Residential Environmental Exposure Assessment for Asthma Risk.* *Living Well with Asthma*, 2002 CDC National Asthma Conference, Atlanta, GA. Poster Presentaion.

Puett R, **Hurley D** and Aldrich T. (October 2002). *Elements of a GIS infrastructure for asthma surveillance.* *Living Well with Asthma*, 2002 CDC National Asthma Conference, Atlanta, GA. Oral Presentation.

Puett R, McKeown RE, Aldrich T, Feigley CE and **Hurley D.** (August 2002). *Temporal patterns in South Carolina emergency department asthma admissions.* *Linking Exposure and Health: Innovations and Interactions*, 14th Conference of the International Society for Environmental Epidemiologists (ISEE), Vancouver, BC. Poster Presentation.

**Hurley D,** Puett R and Aldrich T. (November 2001). *Building a GIS infrastructure to address environmental and human health,* ESRI GIS and Public Health, Washington D.C. Oral Presentation.

Puett R, **Hurley D** and Aldrich T. (November 2001). *Use of GIS for sample size refinement.* ESRI GIS and Public Health, Washington D.C. Poster Presentation.