

Curriculum Vitae: David Anderson

Department of Mathematics
Xavier University of Louisiana
New Orleans, LA 70125

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Education

Ph.D. in Statistics, August 2008

Purdue University

Advisor: William S. Cleveland

Dissertation: *Multifractal Fractional Sum–Difference Models for Internet Traffic*

M.S. in Statistics, December 2002

University of Wisconsin–Madison

B.S. in Mathematics, May 1999

Yale University

Professional Experience

Associate Professor: Xavier University of Louisiana, Department of Mathematics

Dates: August 2016 to Present.

Assistant Professor: Xavier University of Louisiana, Department of Mathematics

Dates: August 2008 to August 2016.

Statistical Consultant: Purdue University, Statistical Consulting Service

Dates: August 2006 - August 2007 and January 2008 - August 2008

Research Assistant: Purdue University, Department of Statistics

Dates: August 2007 - May 2008 and January 2005 - August 2005

Advisors: Professor William S. Cleveland (2007), Professor Kristofer Jennings (2005)

Recitation Instructor: Purdue University, Department of Statistics

Dates: August 2005 - December 2005 and August 2004 - December 2004

Instructor: Fresno City College, Department of Mathematics

Dates: August 2002 - August 2003

Substitute Teacher: Fresno Unified School District

Dates: August 2002 - December 2002

Recitation Instructor: University of Wisconsin–Madison, Department of Statistics

Dates: August 1999 - May 2002

Courses Taught (Xavier)

Math 990Drill. Preparation for College Mathematics Drill.

Math 1010. Principles of Modern Mathematics.

Math 1020 (Stat 2010). Basic Statistics I.

Math 1030. Pre–Calculus.

Math 1030I. Intensive Pre–Calculus.

Math 2150L (Stat 2150L). Statistics Technology Lab.

Math 4511 (Stat 4511). Colloquium.

Math 4521 (Stat 4521). Colloquium II.

Stat 2015 (Pharm 4600). Biostatistics.

Stat 2015D. Biostatistics Drill.

Stat 3810. Linear Regression.

Stat 4040 (GMAT 6051). Mathematical Probability and Statistics I.

Papers

Echeverri M, Felder K, **Anderson D**, Apantaku E, Leung P, Hoff C, Dennar P (2022). *Fostering Shared Decision-Making about Prostate Cancer Screening among African American Men Patients and their Primary Care Providers: A Randomized Behavioral Clinical Trial*. *Trials*. (2022) 23:653; <https://doi.org/10.1186/s13063-022-06605-1>

M. Echeverri, E. Yates, **D. Anderson**, A. Napoles. *Prostate Specific Antigen Testing Practices in an Academic Healthcare Organization*. *Journal of Men's Health*. 2 March 2022. Volume 18, Issue 3 (074). <https://www.imrpress.com/journal/JOMH/18/3/10.31083/j.jomh1803074>

T. Maestri, **D. Anderson**, J. C. Abbo, T. Waguespack, and M. Echeverri. *Description of Antipsychotic Prescribing Patterns Based on Race*. *Therapeutic Advances in Psychopharmacology*. June 27, 2021. doi: 10.1177/20451253211023221. PMID: 34249329; PMCID: PMC8239957.

Margarita Echeverri, **David Anderson**, Jacqueline M. Haas, Marc E. Johnson, Friar Sergio A. Serrano, and Anna María Nápoles. *Testing the Preliminary Validity of a Multidimensional Framework for Studying the Effects of Cancer Health Literacy on Cancer Screening Behaviors among Diverse Populations*. *International Journal of Environmental Research and Public Health*. April 25, 2020. <https://www.mdpi.com/1660-4601/17/9/2987/pdf>

M. Echeverri, **D. Anderson**, A. Napoles, J. Haas, M. Johnson, and S. Serrano. *Cancer Health Literacy and Willingness to Participate in Cancer Research and Donate Bio-Specimens*. International Journal of Environmental Research and Public Health. 9-24-18. <http://www.mdpi.com/1660-4601/15/10/2091/pdf>.

M. Echeverri, **D. Anderson**, A. Napoles. *Assessing Cancer Health Literacy Among Spanish-speaking Latinos*. Journal of Cancer Education. July 24, 2017. Springer. DOI 10.1007/s13187-017-1255-y. ISSN 0885-8195.

D. Anderson, W. Cleveland, and B. Xi. *Multifractal and Gaussian Fractional Sum-Difference Models for Internet Traffic*. Performance Evaluation. Volume 107. January 2017. Pages 1-33. <https://doi.org/10.1016/j.peva.2016.11.001>

M. Echeverri, **D. Anderson** & A. Nápoles. *Cancer Health Literacy Test-30-Spanish (CHLT-30-DKspa), a New Spanish-Language Version of the Cancer Health Literacy Test (CHLT-30) for Spanish-Speaking Latinos*. Journal of Health Communication, 21:sup1, 69-78. 2016. Available at <http://www.tandfonline.com/doi/full/10.1080/10810730.2015.1131777>

D. Anderson, W. S. Cleveland, B. Xi. *Multifractal and Gaussian Fractional Sum-Difference Models for Internet Traffic*. Technical Report No. 2015-02, Department of Statistics, Purdue University. 2015. <http://www.stat.purdue.edu/~xbw>

W. Edwards, D. Pringle, T. Palfrey, and **D. Anderson**. *Effects of Chromium Picolinate Supplementation on Body Composition in In-Season Division I Intercollegiate Female Swimmers*. Medicina Sportiva. Volume 16 (3). Pages 99-103. 2012.

K. Chrishon, **D. Anderson**, G. Arora, and T. Bailey. *Race and Psychiatric Diagnostic Patterns: Understanding the Influence of Hospital Characteristics in the National Hospital Discharge Survey*. Journal of the National Medical Association. Volume 104, Numbers 11 and 12, November/December 2012.

A. Russ, **D. Anderson**, J. McGill, K. Haberstroh, A. Rundell. *Ischemias Proliferative and Morphological Effects: Analyzing the Roles of Hypoxia, Hypercapnia, and Glucose Deprivation*. Cellular and Molecular Bioengineering, 3(2):171-186, 2010.

R. Hafen, **D. Anderson**, W. Cleveland, R. Maciejewski, D. Ebert, A. Abusalah, M. Yakout, M. Ouzzani, S. Grannis. *Syndromic Surveillance: STL for Modeling, Visualizing, and Monitoring Disease Counts*. BioMed Central Medical Informatics and Decision Making. 21 April 2009. <http://www.biomedcentral.com/1472-6947/9/21>

H. Winzeller, P. Owens, B. Joern, J. Camberato, B. Lee, **D. Anderson**, D. Smith. *Potassium Fertility and Terrain Attributes in a Fragiudalf Drainage Catena*. Soil Science Society of America Journal. Volume 72, Number 5, September–October 2008.

Presentations

Echeverri M, Felder K, **Anderson D**, Leung P, Apantaku E, Hoff C, Dennar P. *Factors affecting decisions about prostate cancer*. 2022 RCMI Annual Conference, Abstract #C51197 March 16-18, 2022, Online. https://www.youtube.com/watch?v=9my1hGXH_zl **Poster Presentation.**

T. Maestri (presenter), **D. Anderson**, J. C. Abbo, T. Waguespack, and M. Echeverri. *Description of Antipsychotic Prescribing Patterns Based on Race in an Expanded Population*. Louisiana Cancer Research Center. Friday Cancer and Health Disparities Seminar. October 8, 2021. **Contributed Talk.**

Margarita Echeverri, **David Anderson**, Anna María Nápoles , Jacqueline M. Haas , Marc E. Johnson , Friar Sergio A. Serrano. *A Multidimensional Framework for Studying the Effects of Cancer Health Literacy on Cancer Screening Behaviors among Diverse Populations*. Xavier University of Louisiana College of Pharmacy 13th Health Disparities Conference, 2020. **Poster Presentation.**

Yanes E., Echeverri M., Anderson D. *PSA-Test Practices in an Academic Healthcare Organization – A Pilot Study*. Virtual Poster Session of the 111th Annual Meeting of the American Association for Cancer Research; June 22, 2020. Poster #2312, **Poster Presentation.** https://vcusa.sparx-ip.net/aacr2020ep/?c=a&view=2&item=2020AB_2312

Maestri T, Waguespack T, **Anderson D**, Calderon-Abbo J, Echeverri M. *A Description of Antipsychotic Prescribing Patterns Based on Race in a Culturally Diverse Population*. Presented at Louisiana Health-Systems Pharmacists (LHSP) Annual Convention. May, 2019. **Poster Presentation.**

Maestri T, Waguespack T, **Anderson D**, Calderon-Abbo J, Echeverri M. *A Description of Antipsychotic Prescribing Patterns Based on Race in a Culturally Diverse Population*. Presented at College of Psychiatric and Neurologic Pharmacists (CPNP) Annual Meeting. April 7-10, 2019. **Poster Presentation.**

R. Hafen, **D. Anderson**, W. Cleveland, R. Maciejewski, D. Ebert, A. Abusalah, M. Yakout, M. Ouzzani, S. Grannis. *Syndromic Surveillance: STL for Modeling, Visualizing, and Monitoring Disease Counts*. Fall 2018 LSU School of Public Health Biostatistics Seminar. October 8, 2018. **Invited talk.**

M. Echeverri (presenter), **D. Anderson**, A. Napoles. *Measuring Cancer Health Literacy Among Populations in Louisiana*. Xavier University of Louisiana College of Pharmacy Tenth Health Disparities Conference. March 16-18, 2017. New Orleans, LA. **Contributed talk.**

M. Echeverri (presenter), **D. Anderson**, A. Napoles. *Item Analysis of a Cancer Health Literacy Tool for Spanish Speaking Populations*. Louisiana Cancer Research Consortium. March 10, 2017. Xavier University of Louisiana (UC, 3rd Floor). **Contributed talk.**

Brooks H (presenter), Wilson T, **Anderson D**, Knaus T, Tager-Flusberg H, Cohen JD. *Select Surface Based Morphometry Predicts Symptom Severity in Autism Spectrum Disorder*. Cognitive Neuroscience Annual Meeting, San Francisco, CA (March 2017). **Poster Presentation.**

M. Echeverri (presenter), **D. Anderson** & A. Nápoles . *Cancer Health Literacy Test-30-Spanish (CHLT-30-DKspa), a New Spanish-Language Version of the Cancer Health Literacy Test (CHLT-30) for Spanish-Speaking Latinos*. Health Literacy Annual Research (HARC) Conference. November 2-3, 2015. Bethesda, Maryland. **Poster presentation.**

R. Hafen, **D. Anderson**, W. Cleveland, R. Maciejewski, D. Ebert, A. Abusalah, M. Yakout, M. Ouzzani, S. Grannis. *Syndromic Surveillance: STL for Modeling, Visualizing, and Monitoring Disease Counts*. Spring 2010 Meeting of the Louisiana Chapter of the American Statistical Association. University of New Orleans. **Invited talk.**

D. Anderson, W. Cleveland, B. Xi. *Multifractal Fractional–Sum Difference Models for Internet Traffic*. Louisiana State University School of Public Health Spring 2010 Biostatistics Seminar. New Orleans, LA. **Invited talk.**

D. Anderson, W. Cleveland, B. Xi. *Multifractal Fractional–Sum Difference Models for Internet Traffic*. Fall 2009 Meeting of the Louisiana Chapter of the American Statistical Association. Louisiana State University. **Invited talk.**

D. Anderson, W. Cleveland, B. Xi. *The Fractional Sum Difference Model for Internet Traffic*. (2008) University of Southern Georgia. Statesboro, GA. **Invited talk.**

D. Anderson, W. Cleveland, B. Xi. *The Fractional Sum Difference Model for Internet Traffic*. (2008) University of Texas–Brownsville Mathematics Seminar. Brownsville, TX. **Invited talk.**

D. Anderson, R. Maciejewski, R. Hafen, W. Cleveland, D. Ebert, M. Ouzzani, S. Grannis, M. Wade. *STL and Local Regression for Modeling Disease Surveillance Counts*. 2008 Department of Homeland Security Conference. Washington, DC. **Poster presentation.**

D. Anderson, C. Zheng, R. Maciejewski, R. Hafen, W. Cleveland, D. Ebert, M. Ouzzani, S. Grannis. *STL and Local Regression for Modeling Disease Surveillance Counts*. 2007 Syndromic Surveillance Conference. Indianapolis, IN. **Contributed talk.**

D. Anderson. *Recent Developments in Bootstrapping for Parametric Likelihood Inference and Super–efficient Estimators*. (2004) Purdue Graduate Student Organization. West Lafayette, IN. **Student presentation.**

Research Area

Applied statistics.

Awards and Fellowships

I.W. Burr Award. 2009.

Awarded for excellence in statistical consulting, research, and teaching.

VIGRE Fellowship. Purdue University. 2003–2008.

Statistical Programming Skills

Expert in R

Extensive experience in SAS, Matlab, SPSS, and Fortran

Service

Xavier University of Louisiana

Chair. Search Committees. 2022 (Chair), 2021 (Member), 2018 (Member).

Core Governance Council. 2017 – Present.

Chair. Math Department Education / Curriculum Committee.
2020 – Present (Chair), 2017 – 2020 (Member).

Chair. Quantitative Reasoning Faculty Area Committee. 2017 – 2018.

University Academic Council. 2016 – 2018.

Graduate Council (manages Graduate School Curriculum). 2016 – 2018.

College of Arts and Sciences Coordinating Committee. 2012–2014.

Chair. Core Curriculum Assessment Committee. 2011–2012 (Chair), 2010–2011 (Member).

Chair. Math Lab Committee. 2009–2010.

Purdue University

Board Member (first graduate student placed on the board). Aquinas Educational Foundation. 2005–2008.

Statistics in the Community (STATCOM). 2005–2006. <http://www.stat.purdue.edu/externalrelations/statcom>.

Advising and Mentoring

Advisor for five students.

Colloquium Advisor for two students.

Conducted research with two students (K. Keller and S. El-Rachidi) leading to a presentation at the Xavier Festival of Scholars.