

## VITA 2018

**NAME:** CHRISTINE ANNETTE FRANKLIN  
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### ACADEMIC POSITIONS:

American Statistical Association K-12 Ambassador, September 2016 – present  
<http://magazine.amstat.org/blog/2017/09/01/k-12statisticalambassador/>  
Senior Lecturer Emeritus in Statistics, University of Georgia, July 2016 - present  
Senior Lecturer and Lothar Tresp Honoratus Honors Professor  
University of Georgia, Department of Statistics, Athens, GA 2008-June 2016  
Undergraduate Coordinator  
University of Georgia, Department of Statistics, Athens, GA 1999-June 2016  
Professional Enrichment in UGA Mathematics Education Department – Supported Leave  
from the UGA Statistics Department for the Academic Year, August 2008 – May 2009.  
Lecturer/Instructor and Honors Professor  
University of Georgia, Department of Statistics, Athens, GA 1989-2008  
Lecturer, University of Florida, Department of Statistics, Gainesville, FL 1986-1989  
Instructor  
West Virginia University Institute of Technology, Department of Mathematics, Montgomery, WV 1982-1986  
Instructor, University of North Carolina, Department of Mathematics, Greensboro, NC 1980-1982  
Teaching Assistant (Full teaching responsibility of classes)  
University of North Carolina, Department of Mathematics, Greensboro, NC 1978-1980

### NATIONAL AND INTERNATIONAL HONORS AND AWARDS:

International Statistical Institute (ISI) Elected Member [2018]  
Georgia Council of Teachers of Mathematics Gladys Thompson Lifetime Achievement Award [October 2017]  
Fulbright U.S. Scholar to New Zealand [2015]  
American Statistical Association Founder's Award [August 2014]  
<http://www.stat.uga.edu/news/franklin-receives-asa-founders-award>  
United States Conference on Teaching Statistics (USCOTS) Lifetime Achievement Award [May 2013]  
<https://www.causeweb.org/uscots/awards/>  
Fellow of the American Statistical Association [Elected 2004]  
Mu Sigma Rho National Statistics Honor Society Statistical Education Award [2006]  
Phi Kappa Phi Honor Society, inducted as an invited faculty member to UGA Chapter 32 [2010]

### UNIVERSITY OF GEORGIA HONORS AND AWARDS:

Phi Kappa Phi Honor Society 'Love of Learning' Award [April 2016]  
UGA Franklin College International Faculty Exchange Grant awardee [2016]  
UGA Center for Teaching and Learning Teacher of the Week [April 2014] <http://ctl.uga.edu/teacher-of-the-week/cfranklin>  
UGA Palladia Honor Society for Women Leaders, 2012 invited and inducted member [2012]  
UGA Teaching Academy, 2008 inducted class member [October 2008]  
UGA Lothar Tresp Outstanding Honors Professor Honoratus Award [April 2008]  
UGA College of Arts and Sciences Outstanding Faculty Academic Advisor Award [April 2005]  
UGA Student Government Association Professor Recognition Award [January 2005]  
UGA Lothar Tresp Outstanding Honors Professor Award [2002, 2001, 1996, 1995]  
UGA Sandy Beaver (College of Arts and Sciences) Outstanding Teaching Award [April 1999]  
UGA Honors Council Citation for "Fine Teaching Performance in the Honors Program" [March 1992]

**EDUCATION:**

1980	MA	Mathematics and Statistics	University of North Carolina, Greensboro
1978	BA	Political Science. & Mathematics (Summa Cum Laude and Honor's Council Student Excellence Award)	University of North Carolina, Greensboro
1974		Valedictorian, Chase High School, Forest City, NC	

**SELECTED PROFESSIONAL POSITIONS:**

Chair of the American Statistical Association sponsored strategic initiative, "SET – The Statistical Education of Teachers", April 2013 – April 2015. Led a group of writers who developed recommendations for the statistics that teachers should know and how they should come to know that statistics. This report is a companion piece to the CBMS Mathematical Education of Teachers (MET) 2 report.

National Council Teachers of Mathematics High School Task Force writer representing Statistics for the policy document, *Catalyzing Change*. 2017 – 2018. Document published April 2018.

Chair of the American Statistical Association (ASA) -NCTM Joint Committee on Curriculum in Statistics and Probability 2015 - 2017; regular member 2011 – 2014.

President of the National Statistics Honor Society, *Mu Sigma Rho*, elected for a 3 year term (August 2007 – December 2010); Past-President January 2011- December 2013; Secretary/Treasurer January 2014 – 2017.

Content Specialist for the NEGA RESA and UGA STEM Advanced Placement Statistics Learning Community for regional AP Statistics teacher. 2005 – present. This LC meeting meets once a month during the academic year.

Educational Testing Service (ETS) Advanced Placement Statistics Working Group member of test development committee responsible for developing international versions of the AP Statistics exam, September 2010 – December 2013.

Chair of the state of Georgia Department of Education Committee to develop and write standards for the new high school math elective course, *Statistical Reasoning*. January 2013 – August 2013.

Consultant and Advisor for the GA Department of Education and GA Council of Teachers of Mathematics Summer Academies in Statistics to prepare grades 6-12 teachers for the CCGPS. This included filming videos to be shown at different academies across the state. April 2012 – present.

Invited member of the Georgia Department of Education Mathematics Advisory Board for transitioning the Georgia Performance Standards (GPS) to the national Common Core School Standards (CCSS), January 2011 – present.

*Chief Reader* for Advanced Placement Statistics (July 2007-July 2009), *Chief Reader Designate* (July 2006-July 2007), College Board and Educational Testing Service. In addition to the year -long responsibilities of Chief Reader, I served as a member of the College Board AP Statistics Test Development Committee where my primary responsibility was drafting rubrics for 12 - 18 free response questions per year in addition to writing assessment items. *Question Leader* for the AP Placement Exam in Statistics. Educational Testing Service 2006 and 2005; *Table Leader* for the AP Placement Exam in Statistics; 1997 – 2003.

Board of Directors member for the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), Nov. 2007 – present.

Co-chair Judge (Director of Grand Award Judges in Mathematics Division), 2008 Intel International Science and Engineering Fair, Atlanta, GA, May 13-14, 2008.

Chair of the American Statistical Association Section on Statistical Education (2006), Chair-Elect (2005), Past-Chair (2007).

Vice-chair of American Statistical Association ACTE (Advisory Committee for Teacher Enhancement), 2004-2005; member, 2000-2006.

Chair of the American Statistical Association sponsored strategic initiative, "GAISE – Guidelines for Assessment and Instruction in Statistics Education", April 2003- August 2005. Led a group of writers who developed statistical standards for Pre-K-12 which enhance the NCTM National Standards. The standards developed from the GAISE project were endorsed by ASA in August 2005 with publication in 2007. This policy document was the basis of the statistics standards in the Common Core Math Curriculum.

## Selected PUBLICATIONS in Statistics Education:

### Peer Reviewed:

Statistics: The Art and Science of Learning from Data, by Agresti, A., Franklin, C., and Klingenberg, B., Prentice Hall, 4th Edition, January 2016. (Textbook for the Introductory Statistics Course and AP Statistics)

Statistical Reasoning in Sports by Tabor, Josh and Christine Franklin, Freeman Publishing, 1st edition, January 2012. Second edition to be published January 2019. (Textbook for High School Statistics Course or College Special Seminar Course).  
<http://www.highschool.bfwpub.com/Catalog/product/statisticalreasoninginsports-firstedition-tabor>

"Building Conceptual Understanding of Probability Models: Visualizing Chance", Budgett, S., Pfannkuch, M., and Franklin, C., In C. Hirsch (ed.), Chapter in: Annual Perspectives in Mathematics Education (APME) 2016: Mathematical Modeling and Modeling Mathematics, NCTM, Reston, VA. 2016.

The Statistical Education of Teachers. Franklin, C., Bargagliotti, A., Case, C., Kader, G., Schaeffer, R., Spangler, D., American Statistical Association, Arlington, VA. 2015 <http://www.amstat.org/education/SET/SET.pdf>

"We Need to Rethink the Way We Teach Statistics at K-12"- A Response to "Mere Renovation is Too Little Too Late: We Need to Rethink the Undergraduate Curriculum from the Ground Up", Franklin, Christine. The American Statistician, Vol. 69, No. 4. 2015.

"The Big Picture: Preparing Students for a Data-centric World", Lazar, N. and Franklin, C., Chance, Vol. 28, No.4. 2015

"The Statistical Education of Teachers: Preparing Teachers to Teach Statistics", Bargagliotti, A. and Franklin, C., Chance. Vol. 28, No. 3. 2015.

"Simulation of the Sampling Distribution of the Mean Can Mislead", Watkins, A., Bargagliotti, A., and Franklin, C., The Journal of Statistics Education, Vol. 22, No. 3, November 2014.

"The Statistical Education of Teachers (SET): An American Statistical Association Policy Document", Franklin, Christine, Proceedings of the Ninth International Conference on Teaching Statistics, (invited referred paper), July 2014. [http://iase-web.org/icots9/proceedings/pdfs/ICOTS9\\_1A2\\_FRANKLIN.pdf](http://iase-web.org/icots9/proceedings/pdfs/ICOTS9_1A2_FRANKLIN.pdf)

"Interview with Christine Franklin", Franklin, Christine and Allan Rossman, Journal of Statistics Education, Vol. 21, No.3, Nov. 2013.  
<http://www.amstat.org/publications/jse/v21n3/rossmanint.pdf>

"Preparing Students and Teachers to Navigate the Data Stream", Franklin, Christine and Rob Gould, Huffington Post, May 14, 2013.  
[http://www.huffingtonpost.com/christine-franklin/statistics-education\\_b\\_3273855.html](http://www.huffingtonpost.com/christine-franklin/statistics-education_b_3273855.html)

"Common Core State Standards and the Future of Teacher Preparation In Statistics", Franklin, Christine, The Mathematics Educator, Vol. 22, No. 2, 2013, 3-10.

"LOCUS: Expanding the A in GAISE", Jacobbe, Tim and Christine Franklin, The Statistics Teacher Network, No. 81, Spring 2013, 4-5.  
<https://www.amstat.org/education/stn/pdfs/STN81.pdf>

"Statistics in the Elementary Grades: Exploring Distributions of Data", Franklin, Christine A. and Denise S. Mewborn. In Curriculum Issues in an Era of Common Core State Standards for Mathematics, edited by Christian R. Hirsch, Glenda T. Lappan, and Barbara Reys, pp. 165-173. Reston, VA: National Council of Teachers of Mathematics, 2012.

"Is Central Park Warming?" Franklin, Christine and Madhuri Mulekar, Reasoning and Sense-Making Activities for High School Mathematics: Selections from Mathematics Teachers, Kasten, S., & Newton, J. (Eds.). Reston, VA: National Council Teachers of Mathematics, March 2012.

Statistics: The Art and Science of Learning from Data, by Agresti, Alan and Christine Franklin, Prentice Hall, 3<sup>rd</sup> Edition, January 2012. 2<sup>nd</sup> Edition, January 2008. 1<sup>st</sup> Edition, January 2006. (Textbook for the Introductory Statistics Course and AP Statistics)  
<http://www.pearsonhighered.com/educator/product/Statistics-The-Art-and-Science-of-Learning-from-Data/9780321755940.page>

"AP Statistics: Building Bridges Between High School and College Statistics Education", Franklin, C., Hartlaub, B., Peck, R., Schaeffer, R., Thiel, D., and Tranbarger, K., The American Statistician, Vol. 65, No. 3, August 2011, 177-182.

"A Capstone Course for Undergraduate Statistics Majors", Lazar, N., Reeves, J., and Franklin, C., The American Statistician, Vol. 65, No. 3, August 2011, 183-189.

"Assessment of Learning, For Learning, and As Learning in Statistics Education", Garfield, Joan and Christine Franklin, Teaching Statistics in School Mathematics - Challenges for Teaching and Teacher Education: A Joint ICMI/IASE Study (Chapter 16), Springer Publishers, Vol. 14, September 2011, 133-145. <http://www.springer.com/series/6351?detailsPage=titles>

"Models of Teacher Preparation Designed around the GAISE Framework", Franklin, Christine and Gary Kader, Proceedings of the Eighth International Conference on Teaching Statistics, (invited referred paper), July 2010. [http://www.stat.auckland.ac.nz/~iase/publications/icots8/ICOTS8\\_3E3\\_FRANKLIN.pdf](http://www.stat.auckland.ac.nz/~iase/publications/icots8/ICOTS8_3E3_FRANKLIN.pdf)

"The Evolution of Pearson's Correlation Coefficient", Kader, Gary and Christine Franklin, Mathematics Teacher, NCTM, Vol. 102, Number 4, November 2008, 292-299.

"Shaping K-12 Statistics Education in the United States", Peck, R., G. Kader, and C. Franklin, Proceedings for the Joint International Commission on Mathematical Instruction/International Association for Statistical Education (ICMI/IASE) Study Statistics Education in School Mathematics Conference, June 30-July 4, 2008, Monterrey, Mexico.

Guidelines for Assessment and Instruction in Statistics Education (GAISE) Report: A Pre-K-12 Curriculum Framework, Franklin, Christine, Gary Kader, Denise Mewborn, Jerry Moreno, Roxy Peck, Mike Perry, and Richard Scheaffer, American Statistical Association, Alexandria, VA, 2007. <http://www.amstat.org/education/GAISE/>

"The Statistical Education of PreK-12 Teachers: A Shared Responsibility", Franklin, Christine and Denise Mewborn, In G. Burrill (ed.), NCTM 2006 Yearbook: Thinking and Reasoning with Data and Chance, NCTM, Reston, VA. 2006, 335-344.

"The GAISE Project: Developing Statistics Education Guidelines for Grades Pre-K-12 and College Courses", Franklin, Christine, Joan Garfield, In G. Burrill (ed.), NCTM 2006 Yearbook: Thinking and Reasoning with Data and Chance, NCTM, Reston, VA. 2006, 345-375.

"A Sequence of Activities for Developing Statistical Concepts", Franklin, Christine and Gary Kader, The Statistics Teacher Network, ASA/NCTM Joint Committee on the Curriculum in Statistics and Probability, No. 68, Winter 2006, 1-11.

"Effect of Prior Information on String Length Estimates", Franklin, Christine and Madhuri Mulekar. Teaching Statistics, Vol. 26, No. 3, 2004.

Data Analysis Book, Grades 9-12, part of the NCTM Navigation Series, Burrill, Gail, Christine Franklin, Landy Godbold, and Linda Young, NCTM, Reston, VA. 2003.

"The Other Life of Florence Nightingale", Franklin, Christine, Mathematics Teaching in the Middle School, NCTM, Vol. 7, No. 6, February 2002, 337-340.

*Non-Peer Reviewed:*

"Preparing Students and Teachers to Navigate the Data Stream", Franklin, Christine and Rob Gould, Huffington Post, May 14, 2013. [http://www.huffingtonpost.com/christine-franklin/statistics-education\\_b\\_3273855.html](http://www.huffingtonpost.com/christine-franklin/statistics-education_b_3273855.html)

"Foreword" by Christine Franklin, In Bridging the Gap Between Common Core State Standards and Teaching Statistics, Hopfensperger, P., Jacobbe, T., Lurie, D. and Moreno, J., pp.vi-vii. Alexandria, VA: American Statistical Association, 2012.

"Statistical Literacy is Essential in K-12", Franklin, Christine, UGA Research, Vol. 42, No.2, Fall 2012, 32-33.

"When Statistics Education and State Policy Meet", Franklin, Christine, Amstat News, Issue #419, May 2012, 27-28.

"Statistics in Action: Is Discrimination Being Practiced in the Promotion of Women?" Franklin, Christine, In L. Johnson (ed.), Chalk Talk: Teaching Tips from the UGA Teaching Academy, UGA Teaching Academy, Athens, GA. 2010, 41-42.

"Developing Graduate Programs in Statistics Education at the University of Georgia", Franklin, Christine, 2002 Proceedings of the American Statistical Association, Statistical Education Section [CD-ROM], Alexandria, VA: American Statistical Association.

"The CBMS Mathematics Education of Teachers Report and Preparing K-12 Teachers to Deliver Statistical Content", Franklin, Christine, Peter Holmes, Richard Scheaffer, Alan Tucker, Pat Wilson. 2002 Proceedings of the American Statistical Association, Statistical Education Section [CD-ROM], Alexandria, VA: American Statistical Association.

“Statistics a Rapidly Growing Area within the K-12 Curriculum – K-12 Teachers Need Training with Content and Pedagogy”, Franklin, Christine, National Summit on the Mathematical Education of Teachers Proceeding Paper, Dec. 2001, assessable on the web at [www.maa.org/cbms/NationalSummit/Speakers/Franklin&Gould.htm](http://www.maa.org/cbms/NationalSummit/Speakers/Franklin&Gould.htm)

“Are Our Teachers Prepared to Provide Instruction in Statistics at the K-12 Level?” Franklin, Christine, NCTM Mathematics Education Dialogues, Vol.37, Issue 3, October 2000.

### **GRANT PARTICIPATION: (Recent)**

NSF funded grant - Collaborative Research: Mathematics of Doing, Understanding, Learning and Educating for Secondary Schools, MODULE(S<sup>2</sup>), serving as an expert consultant and advisor. 2017 – present.

NSF funded grant - Enhancing Statistics Teacher Education with E-Modules [ESTEEM] , serving as expert consultant and advisor. 2015-2017

Teaching Statistics Through Data Investigations MOOC-Ed funded by NC State and the William and Ida Friday Institute. I was an expert consultant , advisor, and panelist for videos. <https://place.fi.ncsu.edu/course/view.php?id=9>

NSF funded project – Levels of Conceptual Understanding in Statistics (LOCUS). I served as a consultant/test development chair helping to develop assessment items. The principle investigator was Tim Jacobbe. 2012 – 2015. <http://education.ufl.edu/locus/>

NSF funded project – Statistics Education of Teachers (SET). I served as a consultant and advisor, The principal investigators were Anna Bargagliotti and Celia Anderson, 2012 – 2015. <http://project-set.com/>

NSF funded project – Transition to College Mathematics and Statistics Course (TCMS). This course is part of the Core-Math project. I served as the statistics advisor. Principle investigator (Christian Hirsch) is housed at Western Michigan. 2010 – 2014.

COLCIENCIAS, Colombia Grant, "What is Statistics Education in Colombia and What It Should Be", serving as International Advisor. The principal investigators are Lucia Zapata (former PhD graduate student) and Pedro Gerardo Rocha, February 2010 - August 2011. Invited to Universidad De Antioquia to work with faculty and graduate students (university presentation and teach). Medellin-Colombia, South America, May 23 – 28, 2011.

### **US FULBRIGHT SCHOLAR EXPERIENCE [January 2015 – July 2015]:**

Project Title: Implementing K-12 Statistics Standards: Comparing Practices in New Zealand and the United States.

Project Statement: In our increasingly data-centric society, statistical literacy is essential for all citizens. It is crucial that students understand, from an early age, the impact data makes on their lives and that the ability to reason statistically is a necessity for their future. Achieving this goal requires international collaboration between countries developing and implementing extensive K-12 data-centric statistics curricula, which for most countries are in their infancy. This project proposes important timely collaboration between the United States and New Zealand, countries prioritizing K-12 statistics curricula in their national standards, to advance the goal of “statistical literacy for all”.

Delivered 16 keynotes presentations, seminars, and professional development workshops for school level teachers and university teacher educators over the entire country of NZ.

Collaborated with NZ university faculty on research resulting in book chapters and research journals articles that are currently accepted for publication or in process of being written. I worked closely with the NZ Statistical Association and the NZ Ministry of Education.

### **PROFESSIONAL SOCIETIES MEMBERSHIP:**

American Statistical Association (ASA)

American Mathematical Association of Two Year Colleges (AMATYC)

Association for Mathematics Teacher Educators (AMTE)

National Council of the Teachers of Mathematics (NCTM)

International Association for Statistical Education (IASE)

International Statistical Institute (ISI)

Georgia Council of the Teachers of Mathematics (GCTM)

Mu Sigma Rho National Statistical Society

### **PROFESSIONAL JOURNAL CONTRIBUTION:**

Assistant Technical Editor for the Statistics Education Research Journal (SERJ), 2016 – 2018

Editorial Advisor on the American Statistical Association Journal of Educational and Behavioral Statistics management committee, appointed by ASA President, August 2009 - present.

Associate Editor for the Journal of Statistical Education, Dec 2000 – Aug. 2006.

Technology Innovations in Statistics Education (TISE), Board of Directors member, 2006 – present.

### **PROFESSIONAL DEVELOPMENT PRESENTATIONS:**

*Presenter and developer of over forty K-12 professional development workshops for K-12 teachers since 1995. These workshops support Advanced Placement Statistics, GAISE Framework for Pre-K-12, and Common Core State Standards in Mathematics. Most of the workshops have been in the state of Georgia but several in other states within the U.S. I continue to help organize and present at the successful annual American Statistical Association 2-day professional development workshop for K-12 teachers, Meeting Within a Meeting (since 2007).*

### **PROFESSIONAL PRESENTATIONS:**

*Invited speaker for over 100 state, national, and international conferences and seminars. A few recent presentations:*

Keynote Speaker for Statistics at the Georgia Conference Teachers of Mathematics, Rock Eagle, GA, October 2017. Also, presented a breakout session.

Keynote Speaker for Statistics at the New Zealand Association of Math Teachers (NZAMT) conference, Christchurch, NZ, October 2017. Also, presented two breakout sessions.

Keynote Speaker for Statistics at the Australian Association of Math Teachers (AAMT) conference, Canberra, AU, July 2017. Also, presented two breakout sessions.

Keynote Panelist at the Association of Mathematics Teacher Educators (AMTE) conference, Orlando, FL, February 2017.

### **TEACHING**

Have taught 25 different courses at the university undergraduate and graduate level. I developed and taught 3 statistics courses specially designed for teachers at K-12; one at elementary, one at middle, and one at secondary.

### **UNIVERSITY SERVICE (Selected roles)**

Faculty mentor for the UGA Teaching Academy Fellows Program since program began in 2011 – mentor junior faculty (5 years or less).

President of UGA Phi Kappa Phi Honor Society Chapter 2014-2017, Past President 2018 - present

Faculty Senator in Franklin College of Arts and Sciences Senate 2011-2014 (Secretary for two years)

Executive Committee (Program Chair) for UGA Teaching Academy 2010 – 2014

Student Marshall (representing Arts and Sciences) for UGA Fall and Spring Commencements 2010 - 2016

Member of Arts and Sciences Dean Search Committee 2011 – 2012

Faculty mentor in Department of Statistics for 6 colleagues since 2010

Chair of the Undergraduate Committee, Department of Statistics 2002 – 2016

AP Department of Statistics representative for University Advanced Placement Committee, 1997 – 2016.

## **COMMUNITY SERVICE**

Member of the Oconee Presbyterian Church: (1) Co-Director of the Church Conformation Class 2009 – 2015. This class is a year-long class providing an educational environment for high school students to reflect on their faith. (2) Elder of the church (2016 – 2019).

Troop committee member for Boy Scouts of America Troop 149. (1999 – 2014). I have led four 2-week outdoor adventure-backpacking trips as an adult leader.

Oconee County Board of Education (1999 – 2008); Chairperson (2001 – 2008). This elected board by the citizens of Oconee County oversees the operations, policies, and budget of a county public school system within the state of Georgia.

## **PERSONAL INFORMATION AND INTEREST**

Husband – Dale Green; Physician and Associate Professor in UGA School of Public Health; Two sons - Corey, Phd graduate student in Forestry at Virginia Tech (Blacksburg, VA); Cody, an undergraduate at University of Georgia (Athens) December 2018 graduation.

Personal interests: Running, backpacking and hiking, sailing, softball, travel, playing the piano, reading, and scoring baseball games.