

Curriculum Vitae

Jing Xiong Kersey

Contact Information

Department of Biostatistics, Epidemiology and Environmental Health Sciences
Jiann-Ping Hsu College Public Health
Georgia Southern University
E-mail: jxkersey@georgiasouthern.edu

Tel: 912-478-5958(Office)

Education

- DrPH (Doctor in Public Health) Georgia Southern University July 2020
Major: Biostatistics (Advisor: Dr. Hani Samawi)
- M.S. in Mathematics Georgia Southern University May 2010
Concentration: Statistics (Advisor: Dr. Broderick Oluyede)
- B.S. in Mathematics Hubei University, China June 1998
Major: Applied Mathematics and Mathematics Education

Professional Experience

- August 2022-Present Assistant Professor of Biostatistics, Georgia Southern University
- August 2021-May 2022 adjunct instructor at Georgia Southern University
BIOS 9231 Bayesian Statistics
BIOS 9134 Stochastic Processes
- January 2020-May 2022 Instructor for eCore
Elementary Statistics
Quantitative Skills & Reasoning
- August 2019-July 2022 Associate Professor of Mathematics, School of Mathematics and Natural Sciences, East Georgia State College
- August 2018-December 2018 Preceptorship, School of Health and Kinesiology, Georgia Southern University
- August 2014-July 2019 Assistant Professor of Mathematics, School of Mathematics and Natural Sciences, East Georgia State College
- 2010- 2014 Instructor of Mathematics, Division of Math & Sciences, East Georgia State College
- 2008-2010 Graduate Assistant, Dept. of Mathematical Sciences, Georgia Southern University
- 2002-2008 Teacher, Shanghai Jiaoyan School, China
Mathematics Teacher for Grades 6 through 9
Mathematics Competitions Instructor (held weekly training sessions)
Certified Applied Mathematics Competition Instructor
Certified Hope League Mathematics Competition Instructor
Coached National Applied Mathematics Competition Teams
(Recognition: 2nd place team grade 9, 1st and 2nd place student grade 8)
Coached National Hope League Mathematics Competition Team

(Recognition: 3rd place student grade 6)

- Spring 2002, Math teacher (Practicum) in Wuhan 23Th High School, Hubei, China
Math teacher in grade 11
Coach for International Mathematical Olympiad (Grade-11group)

Awards

- 2020 Travel Award for ENAR Fostering Diversity in Biostatistics Workshop funded by NIH/NIGMS (did not use the grant due to the Pandemic, attended online)
- 2019 College of Graduate Study Professional Development Grant for Spring 2020, Georgia Southern University (did not use the grant due to the Pandemic)
- 2019 Public Health Travel Grant for Spring 2020, Georgia Southern University (did not use the grant due to the Pandemic)
- 2019 Distinguished faculty of the Year 2019, East Georgia State College
- 2018 Public Health Travel Grant for Spring 2019, Georgia Southern University
- 2018 College of Graduate Study Professional Development Grant for Spring 2019, Georgia Southern University
- 2018 BASS XXV Travel Award
- 2018 (Spring) Dean's List, Georgia Southern University
- 2017 (Fall) Dean's List, Georgia Southern University
- 2016 Affordable Learning Georgia (ALG) grant: Open Mathematics in Action, University System of Georgia
- 2015 Distinguished Faculty of the Year 2015, East Georgia State College
- 2010 (Spring) Bobby Johnson Scholarship, Georgia Southern University
- 2009 (Fall) Bobby Johnson Scholarship, Georgia Southern University
- 2009 (Spring) Bobby Johnson Scholarship, Georgia Southern University
- 2007 Rising Star Teaching Award in mathematics, Shanghai, China

Professional Development:

Presentations:

- Comparing Measures of Diagnostic Accuracy with Cut-point Selection Criterion for K-stage diseases, ICSA Symposium 2020, invited presentation, Zoom, 12/15/2020
- A New Measure of Diagnostic Accuracy with Cut-point Selection Criterion for K-stage diseases Using Concordance and Discordance, ENAR 2019 Spring Meeting, Philadelphia, PA, 03/25/2019
- Valid Common Odds Ratio Estimators Using Different Stratified Sampling Schemes, Department Seminars-Biostatistics, Epidemiology & Environmental Health Sciences (BEE), Georgia Southern University, 02/11/2019
- A New Measure of Diagnostic Accuracy with Cut-point Criteria Based on Concordance and Discordance, 25th Annual Biopharmaceutical Applied Statistics Symposium (BASS XXV), Savannah, GA, 10/16/2018
- Dose-Response in Clinical Trials, Statistics Seminar, Georgia Southern University, 03/24/2017
- Textbook Transformation on Course Math1121_Introduction to Statistics, Symposium on the Future of Educational Resources, University of Middle Georgia, GA, 01/13/2017

Publications:

- **J. Kersey**, Chapter 3 Government's Role in Healthcare Market, eCore textbook: Healthcare

Economics, University of North Georgia Press, Review completed, to be published in Jan 2023

- **J. Kersey**, Chapter 7 Long-term Care, eCore textbook: Healthcare Economics, University of North Georgia Press, Review completed, to be published in Jan 2023
- **J. Kersey**, H. Samawi, J. Yin, H. Rochani & X. Zhang, *On diagnostic accuracy measure with cut-points criterion for ordinal disease classification based on concordance and discordance*, Journal of Applied Statistics, Feb 2022, DOI: 10.1080/02664763.2022.2041567
<https://doi.org/10.1080/02664763.2022.2041567>
- H.Samawi, D. Chen, F. Ahmed, **J. Kersey**, *Medical Diagnostics Accuracy Measures and Cut-point Selection: An Innovative Approach Based on Relative Net Benefit*, Communications in Statistics – Theory and Methods, November 8, 2021
<https://www.tandfonline.com/doi/full/10.1080/03610926.2021.2001016>
- J. Yin and **J. Kersey**, *Chapter 11 Meta-analysis for Evaluating Diagnostic Accuracy*, Meta-analysis with R and Stata, ISBN: 9780429592171, CRC Press, March 31, 2021
- H. Samawi, J. Yin, H. Rochani, C. Mo & **J. Kersey**, *Post-test diagnostic accuracy measures of a continuous test with diseases of ordinal multi-stages*, Statistics in Biopharmaceutical Research, Feb 2021
<https://doi.org/10.1080/19466315.2021.1873841>
- **J. Kersey**, H. Samawi, J. Yin, H. Rochani, X. Zhang, *A New Measure of Diagnostic Accuracy With Cut-Points Criterion for k-Stage Classification Disease Based on Concordance and Discordance*, Electronic Theses and Dissertations. 2128. July 2020
<https://digitalcommons.georgiasouthern.edu/etd/2128>
- **J. Kersey**, J.J.Yin, Chapter 3 *Case Study: Does PM2.5 contribute to the incidence of lung and bronchial cancers in the United States?*, Book chapter in Spatiotemporal Analysis of Air Pollution and Its Application in Public Health, ISBN: 978012815822; eBook ISBN: 9780128165263, Elsevier, November 13, 2019
<https://www.sciencedirect.com/book/9780128158227/spatiotemporal-analysis-of-air-pollution-and-its-application-in-public-health>
- **J. Kersey**, J.J.Yin, A. Ashikari, X.L. Zhou, W. Tong & L.Li, *The Impact of PM2.5 on Lung and Bronchial Cancers: Regression and Time Series Analysis in the U.S. from 1999-2014*, Proceeding paper in 11th EAI International Conference on Mobile Multimedia Communications, June21-22, 2018
- **J. Kersey** and B.O. Oluyede, *Theoretical Properties of the Length-biased Inverse Weibull Distribution*, INVOLVE 5:4 (2012), dx.doi.org/10.2140/involve.2012.5.379. 2012

Work Submitted:

- H. Samawi, K. Gohil, J. Kersey, C. Mo, *Valid Overall Odds Ratio Estimators Using Different Stratified Sampling Schemes*, Computational Statistics, under Review
- J. Kersey, H. Samawi, J. Yin, H. Rochani & X. Zhang, *Justification of Youden Index with Comparison to MADET Measure of Diagnostic Accuracy for k-stage Disease*, Communications in Statistics – Theory and Methods, submitted
- H. Samawi, J. Kersey, J. Yin, C. Mo, *New Post-test diagnostic accuracy measures of a continuous test based on the average predictive values*, Statistical Methods in Medical Research, submitted

Editor-in-Chief:

- eCore textbook: Healthcare Economics 2020, Review completed, to be published in Jan 2023

Peer-Reviewing:

- PLOS ONE, August 2022--Present

- Statistical Methods in Medical Research, June 2020--Present
- Public Health Reports, December 2019--Present

DrPH Dissertation:

- A New Measure of Diagnostic Accuracy With Cut-Points Criterion for k-Stage Classification Disease Based on Concordance and Discordance

M.S. Thesis:

- Weighted Inverse Weibull and Beta-inverse Weibull Distribution, May 2010

Memberships:

- International Biometric Society (IBS), Feb 2023-Present
- American Statistics Association (ASA), Aug 2017-Present
- International Biometric Society Eastern North American Region (ENAR), Jan 2019-Present
- American Public Health Association (APHA), August 2016-Present
- EGSC's representative on the Regents Advisory Committee for Mathematical Subjects, Aug 2021- July 2022
- Georgia Mathematics Association of Two-Year Colleges (GMATYC), January 2021- July 2022
- Public Health Students Association (PHSA), Aug 2016-July 2020
- American Mathematical Society (AMS), Aug 2008-December 2010

Conferences, Workshops & Seminars Attended:

- Weekly Biostatistics Research Meeting, Karl E. Peace Center for Biostatistics and Survey Research, Georgia Southern University, Jan 2017-Present
- Georgia Southern TOC (Teaching Online Course) Workshop: January 20-March 5, 2023
- CITI Training: August 1—December 5, 2022
- FOCI (Focused Online Collaborative Interactions) Workshop Series 2: Strengthening the Classroom Experience, September 22 | October 6 | October 20 | November 3 | November 17 | December 1, 2021.
- 2nd Annual eCampus Faculty Conference, Virtual on Zoom, Nov 4, 2021
- 2021 ENAR Fostering Diversity in Biostatistics Workshop, Virtual on Zoom, March 13-14, 2021
- Pan(Aca)demic: Student Success Amid Chaos virtual conference co-hosted by the Georgia Organization for Student Success (GOSS) and the USG Corequisite Academy, February 12, 2021
- Georgia Mathematics Association for Two Years Colleges (GMATYC) meeting, 12:00 pm- 1:30 pm February 12, 2021
- Fall 2020 Statistics Pathway Summit, Complete College Georgia University System of Georgia, November 18, 2020
- USG Motivating Learners Mini-Course, September 14-18, 2020.
- Electronic Conference On Teaching Statistics (eCOTS) 2020: Engage Everyone, virtual conference, May 18-22, 2020
- Biweekly Faculty Teaching and Learning Community Meeting (Subgroup: Brain-based Learning led by Breana Simmons), Spring 2020
- Biweekly Faculty Teaching and Learning Community Meeting (Subgroup: Transparency in Learning and Teaching led by Lisa Yocco), Spring 2020
- ENAR 2019 Spring Meeting, Philadelphia, PA, March 24-27, 2019 (Oral presentation: A New Measure of Diagnostic Accuracy with Cut-point Selection Criterion for K-stage diseases Using Concordance and Discordance).

- Biweekly Faculty Teaching and Learning Community Meeting (Subgroup: Small Changes Led by Lisa Yacco), Department of Mathematics, East Georgia State College, February 2019-April 2019
- Weekly Health and Kinesiology Research Meeting, School of Health and Kinesiology, Georgia Southern University, August 2018-December 2018
- 25th Annual Biopharmaceutical Applied Statistics Symposium (BASS XXV) (Poster presentation: New Diagnostic Measures Based on Concordance and Discordance Measures with Cut-point Criteria for K-Stage Diseases), Savannah, October 15-18, 2018
- University System of Georgia STEM Summit, Middle Georgia State University, 5/18/2017.
- International Conference in Approximation Theory, Coastal Georgia Center, Savannah GA, May 8-11, 2017.
- Monthly conference meeting on 'Open Mathematics in Action' program, Aug 2016-July 2017
- Statistics Seminar, Georgia Southern University, GA, Aug 2016-May 2017
- Biostatistics--Teacher/Scholar Presentation: 'Bayesian Hierarchical Modeling and its Application in Prediction for Cancer' by Xinyan (Abby) Zhang from Alabama University, Georgia Southern University, 1/20/17
- Biostatistics--Teacher/Scholar Presentation: 'Integrating Data for Comparative Effectiveness Research' by Hwanhee Hong from John Hopkin University, Georgia Southern University, 1/18/17
- Symposium on the Future of Educational Resources (presentation: Textbook Transformation on Course Math1121_Introduction to Statistics), University of Middle Georgia, GA, January 2017
- eCore certification program (certified), West Georgia University, December 2016
- Open Mathematics in Action Kick out Meeting, University of Middle Georgia, GA, July 2016
- Connections: A Conference of Critical Thinking, East Georgia State College-Swainsboro, GA, March 2016
- Fifth Annual Scholarship of STEM Teaching and Learning Conference, Georgia Southern University, GA, March 2016
- Critical-thinking Assessment Test (CAT) Train the Trainer workshop, San Antonio, TX, Nov 2015
- Connections 3 Critical Thinking Conference, East Georgia State College-Swainsboro, April 2015
- Critical Thinking monthly meeting, East Georgia State College, Fall 2014-Spring 2015
- Critical Thinking Conference (2nd), East Georgia State College-Statesboro, April 2014
- Georgia Scholarship of STEM Teaching and Learning Conference (3rd), Georgia Southern University, Statesboro, Georgia, March 2014
- Critical Thinking Conference, East Georgia State College-Statesboro, April 2013
- Nineteenth Annual Biopharmaceutical Applied Statistics Symposium (BASS XIX), Savannah, GA, November 2012
- Workshop on Multivariate Splines and Their Applications, University of Georgia, May 2009 (two weeks)
- Library workshop, Shanghai, China, September 2007-May 2008 (Monthly)
- Conference Series for Principal Teachers, Shanghai, China, September 2003-May 2004 (weekly)

Service:

Institutional Service

- EGSC's representative on the Regents Advisory Committee for Mathematical Subjects, Aug 2021-July 2022

- Tenure and Promotion Committee for Barrs, Chair, Fall 2020
- Tenure and Promotion Committee for Drummer, Chair, Fall 2020
- Co-organizer of activity 'Write It/Do It' in the East Georgia State College Regional Science Olympiad - Saturday, February 15, 2020
- Co-organizer of activity 'Write It/Do It' in the East Georgia State College Regional Science Olympiad - Saturday, February 16, 2019
- Distance Education and eLearning Committee, East Georgia State College, Fall 2017-2019
- Textbook Purchasing Committee, East Georgia State College, Fall 2016-2018
- Led and coached a math team of Calculus I students in the Mathematics tournament at North Georgia University, April 2018
- Participant in the Affordable Learning Georgia project: Open Math in Action, Fall 2016-Summer 2017
- College Algebra Committee, East Georgia State College, Fall 2016-Spring 2017
- Search Committee for Math Position in Swainsboro, East Georgia State College, Summer 2016
- Textbook Purchasing Committee, East Georgia State College, Fall 2015-Spring 2016
- Review Committee for Promotion to Assistant Professor (Drummer), Fall 2015-Spring 2016
- Search Committee for Math Position in Augusta, East Georgia State College, Spring 2015
- Critical Thinking Faculty Champion, East Georgia State College, Fall 2014-Spring 2015
- Review Committee for Promotion to Assistant Professor (Andrew & Lynn), Fall 2014-Spring 2015
- Comprehensive Program Review Committee, East Georgia State College, Fall 2013-Spring 2014
- Library Committee, East Georgia State College, Fall 2013-Spring 2014
- Library Committee, East Georgia State College, Fall 2012-Spring 2013
- Study Aboard Committee, East Georgia State College, Fall 2011-spring 2012

Community Service

- Judge for the Interdisciplinary Contest in Modeling (ICM), March 2022
- Adult Leader for 6th Graders SOAR, every Wednesday night, First Baptist Church, Fall 2021
- Judge for the Interdisciplinary Contest in Modeling (ICM), March 2021
- Judge for the Interdisciplinary Contest in Modeling (ICM), February-March 2020
- Scorer for 31st Annual Invitational Georgia Southern Mathematics Tournament, March 30, 2019
- A host of three Chinese exchange students, Aug 2015—May 2016
- A member of the Chinese Scholars & Students Association (CSSA) at Georgia Southern University

Computer Experience

- Math/Statistics Software: R (proficient), SAS (proficient), Stata(proficient), LaTeX (proficient), MATLAB (beginner), Python (beginner)
- Office Software: M.S. Word (advanced), M.S. Excel (advanced), M.S. PowerPoint (advanced)
- Learning System: D2L, MyMathLab, Hawkes Learning System, WebAssign, WebWork
- Operation System: Windows, Mac OS
- Communication Tool: Zoom, Adobe Connect, Skype, LinkedIn, Microsoft Team, Google Meet

