

JEREMY THOMAS GASKINS

CURRICULUM VITAE

DATE:

01/01/2024

CONTACT INFORMATION

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Louisville, Kentucky 40202
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EDUCATION

PhD in Statistics University of Florida (UF) Gainesville, Florida, USA Dissertation Title: "Bayesian methods for modeling dependence structures in longitudinal data" Advisor: Mike Daniels	2007-2013
BS in Mathematics, BS in Applied Mathematics Auburn University Auburn, Alabama, USA	2003-2007

PROFESSIONAL EXPERIENCE

Associate Professor with tenure	July 2019 – Present
Assistant Professor (tenure-track) University of Louisville Department of Bioinformatics and Biostatistics School of Public Health and Information Sciences (SPHIS)	Aug 2013 – June 2019

AWARDS

University of Florida Graduate Alumni Fellowship	2007-2011
Katzoff Fellowship, University of Florida	2011-2013
Statistics Faculty Award for Best Senior Student (UF)	2012
Eastern North American Region of the International Biometric Society (ENAR) Distinguished Student Paper Award	2013
University of Louisville Faculty Favorite Nominee	2016/17, 2018/19, 2021/22
Junior Faculty Travel Grant for Summer Research Conference of the Southern Regional Council on Statistics (SRCOS)	2018

Student Champion

2021, 2022, 2023

PROFESSIONAL ASSOCIATIONS

American Statistical Association (ASA)	2012-Present
Kentucky chapter of ASA	2013-Present
International Biometric Society (IBS)	2013-Present
Eastern North American Region of the IBS	2013-Present

TEACHING AND MENTORING ACTIVITIES**University of Louisville Teaching Activities by Course**

PHST 301: Biostatistics Concepts and Methods for Public Health (3 hours)
Fall 2014

PHST 301: Quantitative Methods in Public Health (3 hours)
Spring 2022, Fall 2022, Spring 2023

PHST 602: Biostatistics-Decision Science Seminar (1 hour)
Spring 2014, Fall 2015, Spring 2016, Fall 2017 (50%), Fall 2020, Spring 2021, Fall 2021, Spring 2022 (50%)

PHST 650: Intermediate Topics in Biostatistics (3 hours)
Fall 2016 (25%)

PHST 661: Probability (3 hours)
Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022 (75%), Fall 2023 (75%)

PHST 662: Mathematical Statistics (3 hours)
Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023 (75%),
Spring 2024 (75%)

PHST 675: Independent Study in Biostatistics
Fall 2015, Fall 2016 (x2), Fall 2017, Spring 2018, Summer 2018, Fall 2018 (x2), Fall 2019, Spring 2020,
Fall 2020, Spring 2023

PHST 691: Bayesian Statistics (3 hours)
Fall 2013, Spring 2015, Spring 2016

PHST 698: Public Health Integrative Learning Experience (2 hours)
Fall 2020

PHST 703: Biostatistical Consulting Practice (1 hour)
Summer 2014, Summer 2016 (x2), Summer 2021, Summer 2022 (x2)

PHST 762: Advanced Statistical Inference (3 hours)
Fall 2022 (50%), Fall 2023 (50%)

GS 699: Independent Study in Biostatistics (2 hours)
Fall 2019

PHPH 679: Public Health Practicum (1 hour)
Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018

Student Mentoring

PhD students for whom I serve(d) as primary advisor:

Debamita Kundu "Novel Bayesian Methodology in Multivariate Problems" (Joint with Riten Mitra)	Summer 2019
Mike Sekula "Bayesian methods for single cell RNA data" (Joint with Susmita Datta)	Spring 2020
Nazir Uddin "Bayesian Variable Selection in Longitudinal Mixture Models"	Summer 2021
Siddhesh Kulkarni "Bayesian Methodologies for Constrained Spaces"	Summer 2022
Sagnik Bhadury "Bayesian Methods for Graphical Models with Neighborhood Selection" (Joint with Riten Mitra)	Fall 2022
Uthpala Wanigasekara "Bayesian methods for causal inference and propensity scores"	Fall 2023
Anish Mukherjee Topic: TBD	Expected Spring 2024
Yasin Parh Topic: TBD	Expected Spring 2025
Irina Kondaurova (Joint with Riten Mitra)	Expected Spring 2026

PhD Biostatistics students for whom I serve(d) as a committee member:

*Designates a student to whom I provided substantial supervision on at least one of their dissertation projects.

*Hyoyoung Choo-Wosoba Chathura Siriwardhna	Spring 2016 Spring 2016
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*Jasmit Shah	Spring 2017
Xiaohong Li	Summer 2017
*You Wu	Summer 2017
Ruiqi Liu	Summer 2017
Sarah Kendrick	Fall 2017
Soutik Ghosal	Summer 2018
Jianchao Sun	Fall 2020
Indranil Ghosh	Fall 2021
Qian Xu	Spring 2022
Farhin Rahman	Summer 2023
Triparna Poddar	Fall 2023
Yuchen Han	Summer 2024
Stantley Kotey	expected Spring 2025
Sharmin Sumy	expected Spring 2025

External PhD students for whom I serve(d) as a committee member:

Brian Guinn (PhD in Epidemiology)	Fall 2018
T'shura Ali (PhD in Epidemiology)	Spring 2020
Emily Reece (PhD in Epidemiology)	Spring 2022
Lindsey Wood (PhD in Epidemiology)	Summer 2022
Damilola Owoade (PhD in Epidemiology)	Fall 2023

MS in Biostatistics students for whom I serve(d) as a committee member

John Craycroft	Spring 2016
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External MS students for whom I serve(d) as a committee member:

Shan Biscette (MSc in Clinical Investigation Sciences)	Spring 2016
Lindsey Wood (MS in Epidemiology)	Summer 2019
Rajesh Sikdar (MA in Mathematics)	Summer 2020

MPH Biostatistics concentration students for whom I serve(d) as advisor:

Joanna Ng	Spring 2017
Shafrin Choudhury	Spring 2018
Lamyaa Alharbi	Spring 2021

Other Teaching Activities

Participant in the Delphi Center's Seminar on Teaching for New Faculty	Fall 2015 to Spring 2016
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Participant in SPHIS Undergraduate Teaching Faculty Learning Community	Summer to Fall 2018
Co-organizer of SPHIS Teaching Faculty Learning Community	Summer 2019 - present
Clinical Biostatistics for OB/GYN Fellows	Spring 2017-2019, 2021-2024
<i>Developed and taught this 12 lecture introductory course on basic biostatistical methods and practice for fellows in the OB/GYN dept.</i>	

Grand rounds/didactic talks on statistics for Dept of OB/GYN

Sept 2014	“Biostatistics for OB/GYN Research”
Sept 2015	“Research Development: Asking the Right Question”
March 2016	“Statistical Analysis for OB/GYN Research”
March 2017	“Presenting Data and Statistics in your Research”
April 2018	“Some Basic Principles of Statistical Analysis”
Nov 2018	“Research Development: Asking the Right Question”
Oct 2019	“Research Development: Asking the Right Question”
April 2020	“Some Basic Principles of Statistical Analysis”
Oct 2020	“Research Development: Asking the Right Question”
Nov 2020	“Some Basic Principles of Statistical Analysis”
Nov 2022	“Research Development: Asking the Right Question”

RESEARCH FUNDING

Currently funded grants

Title:	“Longitudinal Analysis of Iowa Fluoride Study Data, Including at Age Twenty-three”
Funding Organization:	NIH/NIDCR
Grant Number:	R03 DE030502-01
PI:	Somnath Datta (University of Florida)
Role:	Subcontract PI, Co-Investigator
Effort:	10%
Total Costs:	\$56,287 (UofL subcontract)
Direct Costs:	\$36,000 (UofL subcontract)
Funding Period:	Feb 2022 to Jan 2024
Description:	The major goal of this project is to undertake a comprehensive statistical examination of caries and fluorosis data obtained from the Iowa Fluoride Study incorporating the data obtained at age 23, and to develop appropriate Bayesian statistical methodology for such an analysis.
Title:	“Racial and Geographic Disparities in Maternal Outcomes during Covid-19”
Funding Organization:	Kentucky Cabinet for Health and Family Services
Role:	PI
Effort:	25%

Total Costs:	\$286,794
Direct Costs:	\$197,083
Funding Period:	07/01/2023 – 06/30/2024
Description:	We seek to investigate racial and geographic disparities in maternal mortality and the occurrence of a range of adverse pregnancy outcomes among the population of pregnant women enrolled in Medicaid within Kentucky. Additionally, we will examine longitudinal trends with a focus on how the Covid-19 pandemic may have exacerbated pre-pandemic disparities.
Title:	“CC* Data Storage: Cardinal Academic Research Data Storage (CARDS)”
Funding Organization:	NSF
PI:	Nihat Altiparmak (Computer Science & Engineering)
Role:	Co-I
Effort:	0%
Total Costs:	\$500,000
Direct Costs:	\$497,740
Funding Period:	09/01/2023 – 08/31/2025
Description:	The goal of this project is to upgrade the data storage system on the Cardinal Research Cluster.

Previously funded grant work

Title:	“A Novel Approach for Personalized Acute Pain Management Following Injuries and Surgeries”
Funding Organization:	DOD
Grant Number:	W81XWH-17-1-0040
PI:	Saeed Jortani
Role:	Co-Investigator
Effort:	3% Yr1, 3% Yr2, 5% Yr3
Total Costs:	\$1,044,770
Direct Costs:	\$696,513
Funding Period:	Feb 2017 to Jan 2021
Description:	The goal of this study is to assess the effects of genetic variation on metabolism of hydrocodone and its efficacy, as well as the contribution of other sources of variability such as polypharmacy, gender and age on its analgesic efficacy and side effects. Further, we will develop a physician interpretation tool that estimates a patient’s potential for hydrocodone sensitivity based on pharmacogenetics testing.
Title:	“A Novel Analysis Plan for the Caries and Fluorosis Data from the Iowa Fluoride Study”
Funding Organization:	NIH/NIDCR
Grant Number:	R03 DE026757
PI:	Somnath Datta (University of Florida)
Role:	Subcontract PI, Co-Investigator
Effort:	10%
Total Costs:	\$51,893 (UofL subcontract)
Direct Costs:	\$33,697 (UofL subcontract)

- Funding Period: Sept. 2018 to Aug. 2020
 Description: The major goal of this project to undertake a comprehensive statistical examination of caries and fluorosis data obtained from the Iowa Fluoride Study and to develop appropriate Bayesian statistical methodology for such an analysis.
- Title: **“A cohesive statistical approach for missing values in high-dimensional metabolomics data”**
- Funding Organization: NIH/NCI
 Grant Number: 1R03CA222446
 PI: Guy Brock (Ohio State University)
 Role: Subcontract PI, Co-Investigator
 Effort: 15% Yr1, 5% Yr2
 Total Costs: \$46,120 (UofL subcontract)
 Direct Costs: \$29,948 (UofL subcontract)
 Funding Period: Sept. 2017 through Sept. 2019
 Description: The major goal of this project is to propose and evaluate statistical methodology for dealing with missing values in high-dimensional metabolomics data.
- Title: **“Identification of Proteins from Mass Spectrometry Data: A Statistical Approach”**
- Funding Organization: NIH/NCI
 Grant Number: 1R15CA170091-01A1
 PI: Maiying Kong
 Role: Co-Investigator
 Effort: 7%
 Total Costs: \$463,508
 Direct Costs: \$334,616
 Funding Period: Sept 2015 to Feb 2017
 Description: The goal of this project is to develop Bayesian hierarchical models for protein detection and protein network discovery from mass spectrometry data.
- Title: **“Commonwealth Institute of Kentucky”**
- Funding Organization: KentuckyOne Health System
 Grant Number: MOU #20150728-06
 PI: Monica Wendel
 Role: Biostatistician
 Effort: 20%
 Total Costs: \$4,000,000
 Direct Costs: \$4,000,000
 Funding Period: Jan 2015 to Dec 2018
 Description: The goal of the Institute to inform policy and practice that will improve the health of populations in Kentucky and beyond by facilitating and supporting transdisciplinary collaborations for research and data analytics. The institute will build research infrastructure to support a variety of transdisciplinary projects that engage academic partners, clinical partners, and community partners in improving the health of the Commonwealth.

Title: **“4D MR Imaging of Flow and Hemodynamics in Aortic Stenosis”**
 Funding Organization: NIH/EBRG
 Grant Number: 1R21HL132263
 PI: Amir Amini
 Role: Biostatistician
 Effort: 2%
 Total Costs: \$426,888
 Direct Costs: \$275,000
 Funding Period: June 2017 to May 2019
 Description: The major goal of this project is to evaluate the accuracy of new 4D flow imaging techniques relative to conventional MRI and Doppler methods.

Funded contract work

Funding Group: **Dept. of Obstetrics, Gynecology, & Women’s Health, UofL School of Medicine**
 Effort: 12.5% (April 2017 to Present); 10% (April 2014 to April 2017)
 Funding Period: April 2014 to Present
 Description: I collaborate and provide statistical support and analysis for research projects within the department, especially research projects for residents and fellows. I also teach a 12-week introductory statistics course to fellows and provide occasional didactic lectures to residents on statistical methods and concepts. Additionally, I am one of four members of the Research Working Group which pre-approves all research projects within the department.

Funding Group: **Dept. of Radiation Oncology, UofL School of Medicine**
 Effort: 8.5% (July 2019 to Present); 5% (Aug 2015 to June 2019)
 Funding Period: August 2015 to Present
 Description: I collaborate and provide statistical support and analysis for research projects within the department.

Funding Group: **Dept. of Surgery, UofL School of Medicine**
 Effort: 7%
 Funding Period: Nov 2019 to Present
 Description: I collaborate and provide statistical support and analysis for research projects within the department.

SERVICE ACTIVITIES

Departmental Service Activities

Online MS in Biostatistics Committee, *Spring 2017 to Present*

Committee to develop an undergraduate minor in statistics, *Spring 2018 to Spring 2019*

Recruitment Committee, *Fall 2013 to Present*

PhD Comprehensive Exam Committee, *Summer 2014-2016, 2018-2023*

Chair for the Bayesian section, *2015-2016, 2018-2022*

Committee to Review and Revise PhD Comprehensive Exam, *Spring 2014, Fall 2019 to Fall 2020*

Faculty Search Committee, co-chair, *Fall 2014 to Spring 2016; Summer 2023*

Long Range Curriculum Planning Committee, *Fall 2016 to Spring 2017*

Organized Dept seminar series, *Spring 2014, Fall 2015, Spring 2016, (co-organizer in) Fall 2017, Fall 2020, Spring 2021, Fall 2021, (co-organizer in) Spring 2021*

Graduate Admissions Committee, *Fall 2019 to Present*

Biostat Club, Faculty Advisor, *Fall 2022*

SPHIS Service Activities

Faculty Forum, appointed replacement member, *Spring 2016 to Fall 2019*

Faculty Council, *Spring 2020 to Spring 2022*

Undergraduate Advisory Committee, *Spring 2017 to Spring 2018*

Ad hoc Undergraduate Program Curriculum Committee, *Spring to Summer 2017*

Search committee for BA/BS Public Health teaching position, Committee chair, *Summer 2018*

Co-organizer of SPHIS Teaching Faculty Learning Community, *Summer 2019 to present*

SPHIS Fall Planning Committee, *Summer 2020*, This was a committee to evaluate academic options for teaching during the COVID-19 pandemic.

Curriculum Committee, *July 2022 to June 2024*

SPHIS Research, Scholarship, and Creative Activity Strategic Planning Committee, *2023*

University Service Activities

Research Working Group (Dept of OB/GYN, School of Medicine), *Fall 2018 to Present*

Distinguished Faculty Awards, Award Committee, *2022*

Extramural Service

Kentucky Chapter of the ASA

Representative to the Council of Chapters, *Fall 2022 to Fall 2025*

President, *Fall 2018 to Fall 2020; Fall 2020 to Fall 2022*

Secretary, *Fall 2015 to Fall 2016 (appointed to fill vacancy for half term), Fall 2016 to Fall 2018 (elected)*

Council of Chapters, ASA

Nominated candidate for Vice Chair of District 2, *2023*

ENAR (IBS) representative to the Program Committee for the 2020 Joint Statistical Meetings (JSM)

National Science Foundation, Division of Mathematical Sciences, Statistics Program, Grant Review Panel Member, 2019

NASA Human Research Program, Grant Review Panel Member, Statistical Reviewer, 2020, 2021

Journal Referee Reports

(Each manuscript refereed is denoted by the year of first submission. Revisions that were also reviewed are denoted by "+R.")

1. Annals of Applied Statistics (2016, 2016+R, 2018)
2. Annals of Biometrics & Biostatistics (2013)
3. Annals of Statistics (2018)
4. Australian and New Zealand Journal of Statistics (2019+R)
5. Bayesian Analysis (2019+R, 2021)
6. Biometrical Journal (2023+R, 2023)
7. Biometrics (2018+R, 2019, 2020, 2022+R, 2023, 2023)
8. Biometrika (2015+R, 2016)
9. Biostatistics (2014, 2023+R)
10. BMC Medical Informatics and Decision Making (2023+R)
11. BMC Medical Research Methodology (2020)
12. Econometrics and Statistics (2021+R, 2023+R, 2023)
13. Frontiers in Applied Mathematics and Statistics (2022, 2023)
14. IEEE Signal Processing Letters (2021)
15. International Journal of Biostatistics (2022+R+R)
16. Journal of the American Statistical Association (2014, 2018+R+R)
17. Journal of Applied Statistics (2015)
18. Journal of Medical Virology (2022)
19. Journal of Probability and Statistics (2017)
20. Journal of the Royal Statistical Society: Series C (2017)
21. Journal of Statistical Computation and Simulation (2014, 2016+R)
22. Journal of Statistical Theory and Practice (2015)
23. PLOS ONE (2014+R, 2015+R, 2023+R)
24. Sankhya B, the Indian Journal of Statistics (2020+R)
25. Statistical Methods & Applications (2021+R)
26. Statistical Methods in Medical Research (2021)
27. Statistics and Its Interface (2019+R)
28. Statistics in Medicine (2014+R, 2021, 2022)
29. Statistica Sinica (2019+R)
30. Structural Equation Modeling: A Multidisciplinary Journal (2022)

Review Editor for *Frontiers in Applied Mathematics and Statistics*, Editorial Board of Statistics

PUBLICATIONS

Refereed Publications - Methodological

*Denotes manuscripts that are the result of student supervision.

‡Denotes joint first authors.

1. **Gaskins, J.T.**, M.J. Daniels. (2013) A nonparametric prior for simultaneous covariance estimation. *Biometrika*, 100(1): 111-124. PMID: 24324281
2. **Gaskins, J.T.**, M.J. Daniels, B.H. Marcus. (2014) Sparsity inducing prior distributions for correlation matrices of longitudinal data. *Journal of Computational and Graphical Statistics*. 23(4):966-984. PMID: 25382958
3. **Gaskins, J.T.**, M.J. Daniels, and B.H. Marcus. (2016) Bayesian methods for non-ignorable dropout in joint models in smoking cessation studies. *Journal of the American Statistical Association*, 111(516): 1454-1465. PMID: 29104333
4. **Gaskins, J.T.**, and M.J. Daniels. (2016) Covariance partition priors: A Bayesian approach to simultaneous covariance estimation for longitudinal data. *Journal of Computational and Graphical Statistics*. 25(1): 167-186. PMID: 27175055
5. *Liu, R., **J.T. Gaskins**, R. Mitra, D. Wu. (2017) A Review of Estimation of Key Parameters and Lead Time in Cancer Screening. *Revista Colombiana de Estadística*, 40(2):263-278.
6. *‡Choo-Wosoba, H., ‡**J.T. Gaskins**, S.M. Levy, S. Datta. (2018) A Bayesian approach for analyzing zero-inflated clustered count data with dispersion. *Statistics in Medicine*, 37:801-812. PMID: 29108124
7. *Wu, Y., **J.T. Gaskins**, M. Kong, S. Datta. (2018) Profiling the Effects of Short Time-course Cold Ischemia on Tumor Protein Phosphorylation using a Bayesian Approach. *Biometrics*, 74(1): 331-341. PMID: 28742267
8. **Gaskins, J.T.** (2019) Hyper Markov laws for correlation matrices. *Statistica Sinica*, 29: 165-184.
9. *Sekula, M., **J.T. Gaskins**, S. Datta. (2019) Detection of differentially expressed genes in discrete single cell RNA sequencing data using a hurdle model with correlated random effects. *Biometrics*, 75(4):1051-1062. PMID: 31009065
10. *Shah, J., G. Brock, **J.T. Gaskins**. (2019) BayesMetab: Treatment of Missing Values in Metabolomic Studies using a Bayesian Modeling Approach. *BMC Bioinformatics*, 20:673.
11. *Ghosal, S. T. Lau, **J.T. Gaskins**, M. Kong. (2020) Hierarchical Mixed Effect Hurdle Model for Time and Spatially Correlated Count Data and its Application to Identifying Factors Impacting Health Professional Shortages. *Journal of the Royal Statistical Society: Series C*, 69(5):1121-1144.
12. *Sekula, M., **J.T. Gaskins**, S. Datta. (2020) A sparse Bayesian factor model for the construction of gene co-expression networks from single-cell RNA. *BMC Bioinformatics*. 21:361.
13. Kang, T., **J.T. Gaskins**, S. Levy, S. Datta. (2021) A Longitudinal Bayesian Mixed Effects Model with Hurdle Conway-Maxwell-Poisson Distribution. *Statistics in Medicine*. 40(6):1336-1356.
14. *Kundu, D., R. Mitra, **J.T. Gaskins**. (2021) Bayesian Variable Selection for Multi-Outcome Models Through Shared Shrinkage. *Scandinavian Journal of Statistics*. 48(1):295-320.
15. *Sekula, M., **J.T. Gaskins**, S. Datta. (2022) Single-cell Differential Network Analysis with Sparse Bayesian Factor Models. *Frontiers in Genetics*. 12:810816

16. Pal, S., **J.T. Gaskins**. (2022) Modified Polya-Gamma Data Augmentation for Bayesian Analysis of Directional Data. *Journal of Statistical Computation and Simulation*, 92(16):3430-3451.
17. *Uddin, M.N., **J.T. Gaskins**. (2023) Shared Bayesian Variable Shrinkage in Multinomial Logistic Regression. *Computational Statistics and Data Analysis*, 177:107568.
18. **Gaskins, J.T.**, C. Fuentes, R. de la Cruz. (2023) A Bayesian Nonparametric Model for Classification of Longitudinal Profiles. *Biostatistics*, 24(1):209-225.
19. Kang, T., **J.T. Gaskins**, S. Levy, S. Datta. (2023) Analyzing Dental Fluorosis Data using a Novel Bayesian Model for Clustered Longitudinal Ordinal Outcomes with an Inflated Category. *Statistics in Medicine*, 42(6):745-760.
20. *Kundu, D., R. Mitra, P. Albert, **J.T. Gaskins**. (2023) A Bayesian Hierarchical Sparse Factor Model for Estimating Simultaneous Covariance Matrices for Gestational Outcomes in Consecutive Pregnancies. *Statistics in Medicine*, 42(19): 3353-3370.
21. Wu, D., **J.T. Gaskins**, M. Sekula, S. Datta. (2023) Inferring Cell-Cell Communications from Spatially Resolved Transcriptomics Data using a Bayesian Tweedie Model. *Genes*. 14(7): 1368.

Refereed Publications - Collaborative

22. Amsbaugh, M.J., N. Bhatt, T. Hunter, **J.T. Gaskins**, L. Parker, D. Metzinger, A. Amsbaugh, K. Sowards, M. El-Ghamry. (2015) Computed tomography planned interstitial brachytherapy for recurrent gynecologic cancer. *Brachytherapy*, 14(5): 600-605. PMID: 26087686
23. Hunter, R.K., C.D. Nevitt, J.T. Gaskins, B.B. Keller, H.C. Bowler. (2015) Adipose-derived stromal vascular fraction cell effects on a rodent model of thin endometrium. *PLOS One*. 10(12): e0144823. doi:10.1371/journal.pone.0144823. PMID: 27766345
24. Cho, A.H., C.A. Chase, R.L. Koenig, D.D. Treadwell, **J.T. Gaskins**, J.B. Morris, J.P. Morales-Payan. (2016) Phenotypic characterization of sixteen accessions of sun hemp (*Crotalaria juncea* L.) in Florida. *Agronomy Journal*, 108(6): 2417-2424.
25. Shiber, L., E. Gregory, **J.T. Gaskins**, S. Biscette. (2016) Adnexal Masses Requiring Reoperation in Women with Previous Hysterectomy with or without Adnexectomy. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 200:123-127. PMID: 27031192
26. Amsbaugh, M.J., N.H. Bhatt, A.K. Amsbaugh, T. Hunter, **J.T. Gaskins**, L.P. Parker, D. Metzinger, K. Sowards, M. El-Ghamry. (2016) Computed Tomography-Planned Interstitial Brachytherapy for Locally Advanced Gynecologic Cancer: Outcomes and Dosimetric Predictors of Urinary Toxicity. *Brachytherapy*, 15(1):49-56. PMID: 26614237
27. Amsbaugh, M.J., M.B. Yusuf, **J.T. Gaskins**, E. Burton, S. Woo. (2017) Patterns of care and predictors of adjuvant therapies in elderly patients with glioblastoma: An analysis of the National Cancer Database. *Cancer*, 123(17):3277-3284. PMID: 28452053
28. Amsbaugh, M.J., M. Yusuf, **J.T. Gaskins**, C. Silverman, K. Potts, J. Bumpous, R. Redman, C. Perez, N. Dunlap. (2017) Neck dissection for unknown cancer of the head and neck in the era of chemoradiation. *American Journal of Otolaryngology – Head and Neck Medicine and Surgery*, 38:588-592. PMID: 28633765
29. Amsbaugh, M.J., M.B. Yusuf, **J.T. Gaskins**, A.E. Dragun, N. Dunlap, T. Guan, S. Woo. (2017) A dose-volume response model for brain metastases treated with frameless single-fraction robotic

- radiosurgery: Seeking to better predict response to treatment. *Technology in Cancer Research & Treatment*, 16(3):344-351. PMID: 28027696
30. Dondik, Y., N. Virji, T.S. Butler, **J.T. Gaskins**, K. Pagidas, I. Sung. (2017) The value of anti-Mullerian hormone in predicting clinical pregnancy after intrauterine insemination. *Journal of Obstetrics and Gynaecology Canada*, 39(10):880-885. PMID: 28647445
 31. Kinman, C.L., C. Lemieux, A. Agrawal, **J.T. Gaskins**, K.V. Meriwether, S.L. Francis. (2017) The Relationship between Age and Pelvic Organ Prolapse Bother. *International Urogynecology Journal*, 28:751-755. PMID: 27766345
 32. Krause, M.S., K. Holthouser, **J.T. Gaskins**, H.C.L. Bohler Jr., and S.T. Nakajima. (2017) Initial hCG levels in ectopic pregnancies after embryo transfer: Use of the Bayes classifier for risk assessment. *Journal of Reproductive Medicine*, 62(3):257-264.
 33. Hobson, D.T.G., **J.T. Gaskins**, L. Frazier, S.L. Francis, C.L. Kinman, K.V. Meriwether. (2018) Current Practice Patterns and knowledge of InterStim Programming After Implantation Among Gynecologic Surgeons. *International Urogynecology Journal*, 29(8): 1135-1140. PMID: 28975361
 34. Kinman, C.L., K.V. Meriwether, C.M. Powell, D.T.G. Hobson, J.R. Stewart, **J.T. Gaskins**, S.L. Francis. (2018) Use of an iPad Application in the Preoperative Counseling of Pelvic Organ Prolapse Surgery Patients: A Randomized, Controlled Trial. *International Urogynecology Journal*, 29(9): 1289-1295.
 35. Shiber, L., D.N. Ginn, A. Jan, **J.T. Gaskins**, S.M. Biscette, R. Pasic. (2018) A Comparison of Industry-Leading Energy Devices for use in Gynecologic Laparoscopy: Articulating ENSEAL versus LigaSure Energy Devices. *Journal of Minimally Invasive Gynecology*, 25(3): 467-473. PMID: 29032252
 36. Fregosi, N.J., D.T.G. Hobson, C.L. Kinman, **J.T. Gaskins**, J.R. Stewart, K.V. Meriwether. (2018) Changes in the vaginal microenvironment as related to frequency of pessary removal. *Female Pelvic Medicine & Reconstructive Surgery*, 24(2):166-171. PMID: 29474292
 37. * Martin, A.L., J.R. Stewart, *H. Girithara-Gopalan, **J.T. Gaskins**, N.J. McConnell, E.E. Medlin. (2018) Trends and complications of vulvar reconstruction following vulvectomy: A study of a nationwide cohort. *International Journal of Gynecological Cancer*, 28(8): 1606-1615. PMID: 30095703
 38. Ito, T., A.L. Martin, E.F. Fredrick, **J.T. Gaskins**, V.M. Vaughn, S.M. Biscette, R.P. Pasic. (2018) Use of Topical Hemostatic Agents in Minimally Invasive Gynecologic Surgery. *Journal of the Society of Laparoendoscopic Surgeons*. 22(4): e2018.00070. PMID: 30662251
 39. Hosseinejad, K., T. Yin, **J.T. Gaskins**, J.L. Bailen, S.A. Jortani. (2018) Discovery of the Long Interspersed Nuclear Element-1 Activation product [Open Reading Frame-1 (ORF1) Protein] in Human Blood. *Clinica Chimica Acta*. 487: 228-232.
 40. Theisen, J.G., N. Deveneau, A. Agrawal, C. Kinman, **J.T. Gaskins**, K. Meriwether, S.L. Francis. (2019) The accuracy of portable ultrasound bladder scanner measurements of post void residual volume in women with pelvic organ prolapse. *Female Pelvic Medicine Reconstructive Surgery*, 25(5): 388-391.
 41. Martin, A.L., J.R. Stewart, **J.T. Gaskins**, E.E. Medlin. (2019) A systematic assessment of Google search queries and readability of online gynecologic oncology patient education materials. *Journal of Cancer Education*, 34(3): 435-440. PMID: 29353371
 42. Hosseinejad, K., D.L. Yin, **J.T. Gaskins**, M.E. Stauble, Y. Wu, P. Jannetto, L. Langman, S.A. Jortani. (2019) Lack of influence by CYP3A4 and CYP3A5 genotypes on pain relief by hydrocodone in postoperative Cesarean section pain management. *Journal of Applied Laboratory Medicine*, 3(6):954-964.

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98. Warehime, J.M., **J.T. Gaskins**, A.S. Gupta, E.M. Hattab, R.T. Feroz, R.W. Rothenberger, S.M. Lenger, S.L. Francis, N.R. Herring. (2023) Proximity of percutaneous tibial nerve stimulation needle insertion to the surrounding anatomic structures: a cadaveric study. *American Journal of Obstetrics & Gynecology*. 229(4): 430.e1-430.e6
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100. Scheurlen, K., D. Snook, A. B. Littlefield, J.B. George, M. Parks, R.J. Beal, A. MacLeod, D.W. Riggs, **J.T. Gaskins**, J. Charika, E. Rouchka, S. Galandiuk. Anti-inflammatory mechanisms in cancer research: characterization of a distinct M2-like macrophage model derived from the THP-1 cell line. *Cancer Medicine*, 12(23): 21172-21187.
101. Bennis, M.V., **J.T. Gaskins**, K.R. Miller, N.A. Nash, M.C. Bozeman, S.J. Pera, G.R. Marshall, J.J. Coleman, B.G. Harbrecht. (2023) Persistent Long-Term Opioid Use After Trauma: Incidence and Risk Factors. *Journal of Trauma and Acute Care Surgery*. In press. (Oct 2023)

Peer-Reviewed Book Chapter

102. Daniels, M.J., **J.T. Gaskins**. (2013) Bayesian methods for the analysis of mixed categorical and continuous (incomplete) data. In *Analysis of Mixed Data: Methods and Applications* (edited by A.R. de Leon and K. Carriere Chough). pp. 189-208. Chapman & Hall/CRC Press.

PRESENTATIONS

*Note I am the presenting author on all listed presentations.

Invited Presentations

1. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Department of Statistics, Miami University, Oxford, Ohio, Jan. 2013
2. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Dept of Bioinformatics and Biostatistics, UofL, Jan. 2013

3. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at RAND Corporation, Santa Monica, California, Jan. 2013
4. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Department of Statistics, University of Minnesota, Feb. 2013
5. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Department of Mathematical Sciences, Clemson University, South Carolina Feb. 2013
6. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Department of Statistics, University of Illinois, Urbana-Champaign, Feb. 2013
7. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Invited seminar at Department of Biostatistics, University of Iowa, Feb. 2013
8. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation for longitudinal data." Invited speaker in session "Methods for Complex Longitudinal Data" at the Summer Research Conference of the Southern Regional Council on Statistics, Galveston, Texas, June 2014
9. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." Invited session at WNAR (Western North American Region of the International Biometric Society) Meeting, Honolulu, Hawaii, June 2014
10. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." Invited seminar at Department of Biostatistics, Indiana University, Indianapolis, Jan. 2015
11. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." Invited seminar at Statistics Department, Oregon State University, Jan. 2015
12. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." Invited seminar at Department of Statistics, Indiana University, March 2017
13. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." Invited session ("New innovations in handling incomplete data in the era of data science") at the Joint Statistical Meetings (JSM), Baltimore, Maryland, Aug. 2017
14. "A Bayesian Nonparametric Model for Predicting Pregnancy Outcomes Using Longitudinal Profiles." Invited talk at Statistics Department, Oregon State University, April 2018
15. "A Bayesian Nonparametric Model for Predicting Pregnancy Outcomes Using Longitudinal Profiles." Invited speaker in session "Bayesian Analysis" at International Indian Statistical Association annual conference, Gainesville, Florida, May 2018
16. "A Bayesian Nonparametric Model for Classification of Longitudinal Profiles." Invited seminar, Research Program in Quantitative Sciences Seminar, Johns Hopkins University Cancer Center, March 2019.
17. "A Longitudinal Bayesian Mixed Effects Model with Hurdle Conway-Maxwell-Poisson Distribution." Invited session ("Recent Methods for Analyzing Infectious Disease Data") at the WNAR (Western North American Region of the International Biometric Society) Meeting, virtual, June 2021.
18. "A Bayesian Nonparametric Model for Classification of Longitudinal Profiles." Invited session ("Bayesian Model-based Clustering Solutions to Address Population Heterogeneity in Epidemiological Studies"), New England Statistical Society (NESS) Symposium, Boston, Mass. 2023

Contributed Presentations

19. "Sparse prior distributions for correlation matrices through the partial autocorrelations." Oral Contributed Paper at ENAR Spring Meetings, Orlando, Florida, March 2013
20. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation." Contributed paper at JSM, Montreal, Canada, Aug. 2013
21. "Sparsity inducing prior distributions for correlation matrices of longitudinal data." UofL Seminar, March 2014
22. "Covariance partition priors: A Bayesian approach to simultaneous covariance estimation for longitudinal data." Topic-contributed session ("Advances in Modeling and Estimating Longitudinal and Time Series Data") at JSM, Boston, Mass., Aug. 2014
23. "Dealing with Missing Data in Public Health Research" EpiHour Seminar at Department of Epidemiology, UofL, Oct. 2014
24. "Bayesian methods for nonignorable dropout in joint models in smoking cessation studies." UofL Seminar, April 2015
25. "Hyper Markov Laws for Correlation Matrices." Contributed paper at JSM, Seattle, Washington, Aug. 2015
26. "Adjusting a Course from Semester to Semester." Lightning Talk, Seminar on Teaching for New Faculty, UofL, April 2016
27. "Disease Classification from Longitudinal Data using Bayesian Nonparametrics." UofL Seminar, Feb. 2017
28. "A Bayesian Nonparametric Model for Predicting Pregnancy Outcomes Using Longitudinal Profiles." Contributed paper at Joint Statistical Meetings (JSM), Vancouver, Aug. 2018
29. "A Longitudinal Bayesian Mixed Effects Model with Hurdle Conway-Maxwell-Poisson Distribution." UofL Seminar, Feb 2020.
30. "A Longitudinal Bayesian Mixed Effects Model with Hurdle Conway-Maxwell-Poisson Distribution." Contributed paper at Joint Statistical Meetings (JSM), online, Aug. 2020
31. "A Bayesian Nonparametric Model for Classification of Longitudinal Profiles." UofL Seminar, Jan 2022.
32. "Modeling Zero-Inflated Correlated Count Data through Gaussian copulas and ABC." Contributed paper at JSM, Toronto, Ontario, Canada, Aug. 2023.