



**Department of Mathematical Sciences**  
**McMicken College of Arts and Sciences**  
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## VITA

**Siva Sivaganesan**  
**Division of Statistics and Data Science**  
**Department of Mathematical Sciences**  
**University of Cincinnati,**  
P.O. Box 210025  
Cincinnati, OH 45241  
Phone: 513 556 4097  
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## EDUCATION

Purdue University                    Ph.D. 1986 Statistics  
    Major Professor: Jim Berger  
University of Birmingham, U.K.   M.S. 1979 Statistics  
University of Colombo, Sri Lanka B.S. 1976 Mathematics

## EXPERIENCE

Professor, University of Cincinnati, September 1, 1999- Present  
Director, Division of Statistics and Data Science. Aug. 2018-  
Visiting Professor, University of Texas MD Anderson Cancer Center, Fall 2005  
Co-Director, Statistical Consulting Lab, University of Cincinnati, June 1, 2001- May 31, 2003  
Associate Professor, University of Cincinnati, September 1, 1993 - August 30, 1999  
Assistant Professor, University of Cincinnati, September 1, 1987 - August 31, 1993  
Visiting Assistant Professor, Southern Methodist University, August 1, 1986- July 31, 1987  
Teaching Assistant, Purdue University, August 1, 1981- May 31, 1986

## OTHER EXPERIENCE

Visitor, Department of Mathematics, University of Austin. March 2014.  
SAMSI Working Group on Spatial Statistics, May 2010  
SAMSI Working Group Co-leader on Subgroup Analysis, Summer 2006  
Associate Editor, Bulletin of the International Society of Bayesian Analysis, 1999-2001  
Visitor, CNR-IAMI, Milan, Italy, Summer 1996  
Visitor, Department of Statistics, Carnegie-Mellon University, Winter 1994  
Visitor, Department of Statistics, Ohio State University, Fall 1994



## **EXTERNAL GRANTS(SELECTED)**

- **NIH Grant through School of Medicine at Mount Sinai** Joint with Faculty in Environmental Health, Mt. Sinai and U of Miami. for work Developing novel statistical methods for integration different genomics data. Total at UC \$2.5 mil. 9/29/1014 – 04/30/2020, Co-I, Dr. Medvedović(PI)
- **Simon Foundation Grant** for Research in Bayesian Analysis. \$35,000 for 09-2012 to 08-2017
- **CCHMC Grant**, \$1,107,879 for period 2007-2014. Supporting Graduate students Internship.
- NIH Grant Joint with Faculty in Environmental Health for work on developing statistical methods for Bioinformatics. \$84,000 for 09-2011 to 06-2014
- *Bayesian mixtures for modeling functional genomics data, R01HG003749, Co-I, NIH-NHGRI.* Date: 07/01/2006 to 06/31/2010. Status: Completed., Co-I, Dr. Medvedović(PI)
- *Innovative Modeling of Puberty and Substance Use Risk , NIH.* Date: 04/10/2006 to 12/31/2009. Status: Completed. Co-I, Dr. Bin Huang (PI),
- *Computational Tools for Bayesian Mixture Modeling, Co-I, NIH-NHGRI.* Date: 09/30/2003 to 06/30/2005. Status: Completed. Co-I. Dr. Mario Medvedovic (PI),
- *Joint modeling of genomic and functional genomic data, Co-I, (R03LM8248);* Date: 04/19/2004 to 03/31/2006. Status: Completed. Co-I. Dr. Mario Medvedovic (PI),
- *Robust Bayesian Analysis. Grant provided cost of travel., CNR-IAMI (Milano, Italy).* Date: 06-2006 to 07-2006.
- Occupational Exposure to EMF Studying risk of EMF exposure. NIH Research Grant via NIOSH (2009 - Oct. 2011) and INTEROCC  
*This grant also supported one PhD graduate student, Yushaun Guo, PI. Completed*
- *CCTST Grant, Supported a graduate student. Co-PI, CCTST- An NIH funded UC Institute.* Date: 05-2010 to 04-2011. Status: Completed. Co-PI.

## **PUBLICATIONS**

**Sivaganesan, S.** “Sensitivity of Posterior Mean to Unimodality Preserving Contaminations”. Statistics and Decisions , 7 1989.77-93.

**Sivaganesan, S.** and Berger, J. “Ranges of Posterior Measures for Priors with Unimodal Contaminations”. The Annals of Statistics , 17, 1989, 868-889.

**Sivaganesan, S.** “Sensitivity of Some Posterior Measures When Prior is Unimodal with Specified Quantiles”. Canadian Journal of Statistics , v.19, No. 1, 1991, pp. 57-66.

**Sivaganesan, S.** “An Evaluation of robustness in the Binomial Empirical Bayes Testing”. Bayesian Statistics 4, 1992, pp783-789.

**Sivaganesan, S.** and Berger, J. “Robust Bayes Analysis of the Binomial Empirical Bayes Problem”. Canadian Journal of Statistics , vol. 21, 1, 1993, pp. 107-119.

**Sivaganesan, S.** “Range of the posterior probability of an interval for priors



with unimodality preserving contaminations". Annals of Institute of Statistical Mathematics, vol 45, 1, 1993, 171-188.

**Sivaganesan, S.** "Robust Bayesian Diagnostics". The Journal of Statistical Planning and Inference, 35, 1993, pp.171-188.

**Sivaganesan, S.** "Bounds on Posterior Expectations for density priors with constant bandwidth (with discussion)". The Journal of Statistical Planning and Inference, 1994, 40, 331-343.

**Sivaganesan, S.** Berliner, M. and Berger, J. "Optimal Robust Credible Sets for Contaminated Priors". Statistics and Probability Letters ,18 1993, 383-388.

**Sivaganesan, S.** Discussion to "An Overview of Bayesian Robustness"  
by J. Berger. Test , V.3, 1994,116-120.

Meng, Q. and **Sivaganesan, S.** "Local sensitivity of density bounded priors". Statistics and Probability Letters , 27, 1996, 163-169.

**Sivaganesan, S.** "Asymptotics of some local and global robustness measures (with discussion)". IMS Monograph , v. 29, pp 195-210, 1996.

Lingham, R. and **Sivaganesan, S.** "Testing for Homogeneity in Power law Processes using IBF". The Annals of Institute of Statistical Mathematics Vol. 49, No. 4, 693-710, 1997.

**Sivaganesan, S.** "Optimal Robust Sets for a Density Bounded Class". The Journal of Statistical Planning and Inference Vol. 63, No. 1, 9-17, 1997.

**Sivaganesan, S.** "Likelihood based robust Bayesian Summaries". Statistics Probability Letters , 43, 5-12,1999.

Lingham, R. and **Sivaganesan, S.** "An Intrinsic Bayes Approach to a test of the Power Law Process". The Journal of Statistical Planning and Inference , 77, 195-220, 1999.

Ruggeri, F and **Sivaganesan, S.** "On a Global Robustness Diagnostic for Bayesian Inference". Sankhya , vol. 62, 110-127. 2000.

**Sivaganesan, S.** and Lingham, R. "Bayes Factors for a test about the Drift of the Brownian Motion using Noninformative priors". Statistics and Probability Letters , 48, 163-171, 2000.

**Sivaganesan, S.** "Global and Local Robustness Approaches: Uses and Limitations." Robust Bayesian Analysis by Rios Insua, D. and Ruggeri, F.(Eds.),Lecture Notes in Statistics, Springer, 89-108,2000.

Fabrizio, F. and **Sivaganesan, S.** "Change points in nonhomogeneous Poisson processes". Modelli complessi e metodi computazionali intensivi per la stima e la previsione, C. Provasi ed., Cleup editrice, 2001.

Medvedovic, M. and **Sivaganesan, S.** "Bayesian Infinite Mixture Model Based Clustering of Gene Expression Profiles". Bioinformatics, Vol. 18, no. 5, 1194-1206, 2002.

**Sivaganesan, S.** and Lingam, R. "Bayes Factors for model selection with Diffusion Processes under Improper Priors". The Annals of Institute of Statistical Mathematics, 2002, Vol. 54, No. 3, 500-516.



Huang, S. and **Sivaganesan, S.** “Marginally least Informative prior for estimation of Attributable Risk”. In The Proceedings of the Joint Statistical Meetings; 2003.

Huang, B., **Sivaganesan, S.**, Succoup, P. and Goodman,E. “Statistical Assessment of Mediational Effects for Generalized Mediational Models”. Statistics in Medicine 2004; 23:2713–2728.

Render M, Kim H, Duddens JA, **Sivaganesan S** (2005), Variation in outcomes in Veterans Affairs intensive care units with a computerized severity measure, *Critical Care Medicine*, 33,930-939

Ruggeri, F. and **Sivaganesan, S.** “On modeling change points in non-homogeneous Poisson processes”. Statistical Inference for Stochastic Processes, 2005, vol. 8, 311-329.

Sivaganesan, M and **Sivaganesan, S.** “The Effect of Lot Variability and UV Radiation on the Inactivation Kinetics of Cryptosporidium Parvum Oocysts”. Environmental Science and Technology, 2005; 39(11); 4166-4171.

Liu, X., **Sivaganesan, S.**, Yeung K.Y., Bumgarner R. E., and Medvedovic M. “Bayesian context-specific infinite mixture model for clustering of gene expression profiles across diverse Microarray data sets”. Bioinformatics, 2006, 22(14):1737-44

Sartor M., Tomlinson C.R., Wesselkamper S.C., **Sivaganesan S.**, Leikauf G.D., and Medvedovic M. “Intensity-based hierarchical Bayes method improves testing for differentially expressed genes in microarrays”. 2006, *BMC Bioinformatics* 7: 538.

Huang, B. and **Sivaganesan, S.** “Bayesian Interval Estimate for Attributable Risk under Cross-Sectional Study Design using Probability Matching Prior”. Proceedings of The American Statistical Association, 2006.

Liu X, Jessen W, **Sivaganesan S**, Aronow BJ, Medvedovic M: Bayesian hierarchical model for transcriptional module discovery by jointly modeling gene expression and ChIP-chip data. 2007, *BMC Bioinformatics*, 8(1):283.

Huang, B. Altaye, M., Martin, L., **Sivaganesan, S.** Assessing Gene-Environment Interaction for Case-Control Study: Without Independence and Rare Disease Assumptions – Proceedings of the American Statistical Association, 2008.

Ding, L. Huang, B, **Sivaganesan, S.** Bayesian Mixture Modeling for Interval-Censored Age Onset of Puberty. Proceedings of the American Statistical Association, 2008

**Sivaganesan, S** and Jiang, D. “Objective Bayesian testing of Poisson Means”, *Communications in Statistics—Theory and Methods*, 39: 1887–1897, 2010.

Freudenberg JM, **Sivaganesan S**, Wagner M, Medvedovic M. Semi-parametric Bayesian model for unsupervised differential co-expression analysis identifies novel molecular subtypes. *BMC Bioinformatics*, 11:234, 2010

Jiang, D. and **Sivaganesan, S.** Objective Bayesian Approach to comparing Poisson Means. *Journal of Statistical Theory and Practice*, Vol. 4, No. 1, pp 85-110, March 2010.

Muller, P., **Sivaganesan, S.** and Laud, P. A Bayes Rule for Subgroup Reporting.



In Frontiers Statistical Decision Making and Bayesian Analysis, In Honor of James O. Berger, Eds. Chen, M. et. al. Springer, pp. 277-284, 2010.

**Sivaganesan, S.**, Laud, P., Mueller, P. "A Bayesian Subgroup Analysis using Zero-inflated Polya-Urn Scheme". *Statistics in Medicine*, Vol. 30, 4, 312-323, 2011.

Freudenberg JM, **Sivaganesan S**, Phatak M, Shinde K, Medvedovic M. Generalized Random Set Framework for Functional Enrichment Analysis Using Primary Genomics Datasets. *Bioinformatics*, 27(1):70-7. 2011

Wang, G. and **Sivaganesan, S.** "Objective Priors for Measurement Error Models". *Communications in Statistics, Theory and Methods*. [Volume 42, Issue 15](#), 2013 2694-2713

Purushottam W. Laud, **Siva Sivaganesan** and Peter Muller, Subgroup Analysis. *Bayesian Theory and Applications* Edited by Paul Damien, Petros Dellaportas, Nicholas G. Polson and David A. Stephens . Oxford University Press. 2013.

Jing Chen, Zhen Hu, Mukta Phatak, Johannes M Freudenberg, John Reichard, **Siva Sivaganesan** and Mario Medvedovic. Genome-wide signatures of transcription factor activity: connecting transcription factors, disease, and small molecules. *PLoS Comp Biol, September 2013 | Volume 9 | Issue 9 | e1003198*

Zhou, R. **Sivaganesan, S.** and Longla, M. An Objective Bayesian estimation of parameters in a log-binomial model. *Journal of Statistical Planning and Inference*. Vol. 146; 113-121; 2014.

**Sivaganesan, S.** Discussion of "Overall Objective Priors" by Bernardo, J, Berger, J.O., and Sun, D. *Bayesian Analysis*. Volume 10, Number 1, 223-226, 2015.

Li, Dandan and **Siva Sivaganesan** "On the role of prior in multiplicity adjustment", *Journal of Statistical Theory and Practice*, Vol. 10, pp 263-290; 2016.

Li, Dandan and **Sivaganesan, Siva**. "An Objective Bayesian Analysis of a Crossover Design via Model Selection and Model Averaging", *Statist. Med.*, 35: 4509–4527; 2016.

Li, Dandan and **Sivaganesan, Siva**. "An Objective Bayesian estimation in a Two-period Crossover Design" *Communications in Statistics - Theory and Methods*. Vol. 46, 15, 7409-7426

Arya R, **Sivaganesan S**, Holland KD, Greiner HM, Mangano FT, Horn PS. "A probabilistic approach for lateralization of seizure onset zone in drug-resistant epilepsy with bilateral cerebral pathology". *Mathematical Biosciences*, Volume 277, July 2016, Pages 136-140

Liu, J., **Sivaganesan, S.**, Laud, P. Mueller, P. A Bayesian subgroup analysis using collections of ANOVA models. *Biom. J.*, 59: 746–766. 2017.

**Sivaganesan, S**, Mueller, P and Huang, B. Subgroup Finding via Bayesian Additive Regression Trees. *Statist. Med.*, 36: 2391–2403., 2017.



Oraby, T. **Sivaganesan, S.**, Bowman, J., Kincl, L. Richardsone, L. McBridef, M. Siemiatyckie, J. Cardis, E. Krewskih, D. Berkson Error Adjustment and Other Exposure Surrogates in Occupational Case-control Studies, with Application to the Canadian INTEROCC Study. To Appear in *Journal Of Exposure Science And Environmental Epidemiology*, 2017.

Christianson, A. and **Sivaganesan, S.** An Approximate Posterior Simulation for GLMM with Large Samples. *J Stat Theory Practice*, 13: 45. 2019.

Biclustering of medical monitoring data using a nonparametric hierarchical Bayesian model. Ren, Y, **Sivaganesan, S.**, Altaye, M, Amin, RS, Szczesniak, RD. *Stat.* 2020; 9.

Yan Ren, **Siva Sivaganesan**, Nicholas A Clark, Lixia Zhang, Jacek Biesiada, Wen Niu, David R Plas, Mario Medvedovic, Predicting mechanism of action of cellular perturbations with pathway activity signatures, *Bioinformatics*, Volume 36, Issue 18, September 2020, Pages 4781–4788, <https://doi.org/10.1093/bioinformatics/btaa590>

Davidson SE, Wheeler MW, Auerbach SS, **Sivaganesan S**, Medvedovic M. ALOHA: Aggregated local extrema splines for high-throughput dose-response analysis. *Comput Toxicol*. 2022 Feb;21:100196. doi: 10.1016/j.comtox.2021.100196. Epub 2021 Oct 13. PMID: 35083394; PMCID: PMC8785973.

Gecili, E., **Sivaganesan, S.**, Asar, O., Clancy, J., Ziady, A. and Szczesniak, R. Bayesian regularization for a non-stationary Gaussian linear mixed effects model”, *Statistics in Medicine*. 2022, 41, 4

Gecili, E., **Sivaganesan, S.** A default Bayesian multiple comparison of two binomial proportions. *Statistics and its Interface*, 2023, 26, 1.

Huang, B., Chen, C. Liu, J. and **Sivaganesan, S.** GPMatch: A Bayesian Causal Inference using Gaussian Process Covariance function as a matching tool. *Front. Appl. Math. Stat.* 2023, Vol. 3

Chen Chen , Huang Bin , Kouril Michal , Liu Jinzhong , Kim Hang , **Sivaganisan Siva** , Welge Jeffrey A. , DelBello Melissa P. An application programming interface implementing Bayesian approaches for evaluating effect of time-varying treatment with R and Python. *Frontiers in Computer Science*, Volume 5, 2023, <https://www.frontiersin.org/journals/computer-science/articles/10.3389/fcomp.2023.1183380>

Oraby, T., Chakraborty, S., **Sivaganesan, S.** et al. Adjusting for Berkson error in exposure in ordinary and conditional logistic regression and in Poisson regression. *BMC Med Res Methodol* 23, 225 (2023). <https://doi.org/10.1186/s12874-023-02044-x>

Nusrat Harun, Rodney Sparapani, Purushottam W. Laud, **Siva Sivaganesan**, et. al. Treatment Effect Estimation With Potential Outcomes for a Single-Arm Trial Compared With Historical Controls: A Case Study of Locally Recurrent Head and Neck Squamous Cell Carcinoma Patients Treated With Adjuvant Nivolumab. *Head & Neck* (2025):1-8, <https://doi.org/10.1002/hed.28215>.



## Application

Johnson LJ, Crisologo PA, **Sivaganesan S**, Caldwell CC, Henning J. Evaluation of the Laboratory Risk Indicator for Necrotizing Fasciitis (LRINEC) score for detecting necrotizing soft tissue infections in patients with diabetes and lower extremity infection. *Diabetes Res Clin Pract.* 2021 Jan;171:108520. doi: 10.1016/j.diabres.2020.108520. Epub 2020 Oct 21. PMID: 33096188.

## Ph. D. COMMITTEES

### **CHAIR of the PhD Committees of Students who have Graduated and Position:**

1. Qiuyue (Medea) Meng, Bayesian Robustness in Linear Models, 1995
2. Guojun Wang, Analysis of Measurement Error Models and Cross-over designs, 2004.
3. Rong Zhou, Bayesian analysis of log-binomial model, 2005.  
Director, Biostatistics, Medpace, Cincinnati
4. Dongming Jiang, Objective Bayesian Testing in Poisson Models, 2007,
5. Tina Hunter, Estimation of Censored Values from Correlated Multivariate Distributions, 2008.  
Senior Director, Biostatistics, CTI Clinical Trial and Consulting Services,  
Cincinnati.
6. Rui Shen, Bayesian modeling of Monotonic Multidimensional data, 2009.  
Senior Quantitative Analyst at Fifth Third Bank
7. Lili Ding, Bayesian Frailty Models for Correlated Interval-Censored Survival Data, 2010.  
Assistant Professor, Div. of Biostat and Epidemiology, Cincinnati Childrens  
Hosp. and Med Center
8. Xia Li, A Bayesian Hierarchical Model for Studying Inter-Occasion and Inter-Subject Variability  
in Pharmacokinetics, 2011.  
Senior Principle Statistician, MedImmune-AstraZeneca, Washington D.C.
9. Min Lin, Correlation in Bivariate Survival Models, May 2011.
10. Chen Chen, Bayesian Analysis of Mediational Model, Jointly with Bin Huang, July 2011.
11. Yan Ren, Bayesian Hierarchical Clustering, May 2012.  
Currently: Post Doc, Coll. Of Med., University of Cincinnati
12. Yuanshu Zou, Robust Non-Linear Modeling, July 2013  
Research Associate, Division of Biostat and Epi, Cincinnati Childrens  
Hosp. and Med. Center
13. Qian Li Bayesian analysis in Bioinformatics, July 2013
14. Yang Xiao, Bayesian approach to subgroup analysis, Nov. 2013.  
Research Statistician, SAS Institute.
15. Dandan Li, Bayesian Multiplicity Adjustment and Analysis of Cross-Over Design, April 2014.  
Quantitative Analyst at *Fifth Third Bank* ...
16. Mary Lee Glore, The Threshold Prior in Bayesian Hypotheses Testing. December, 2014.  
Asst. Director of Consulting, Department of Mathematics and Statistics, Northern Kentucky  
University.
17. Yixuan Guo, Model Selection for Poisson and Related Models May 2015.  
Senior Data Scientist, Marchex, Seattle.
18. Jinzhong Liu, Bayesian Inference for Treatment Effect, May 2017.  
Statistician, Medpace, Cincinnati.
19. Emrah Gecili, On Bayesian Multiplicity Adjustment in Multiple Testing, Dec. 2018.  
Post Do., CCHMC, Cincinnati.
20. Wei Zhou, Bayesian Model Selections for Log-binomial Regression, Dec. 2018.  
Jonson and Johnson, Tampa.
21. Nilupika, Herath, Some Aspects of Bayesian Multiple. Testing. Medpace, Cincinnati.



22. Rui Huang, Flexible Modeling Method Based on Bayesian Regression Using Multivariate Piecewise Linear Splines, Aug. 2024.

#### **Other Ph. D. Committees Served in the Past and Serving Currently**

- Department of Mathematical Sciences
  - Past
 

Ping Wang, Jane Wu, Dixie Xue, Ruigang Song, Amy Fisher, Shuhong Zhao, Yan Yin, Yan Sun, Xiangxiang Meng, Misty Hein, H. Wang, Yan Sun, Steve Bertke, Wei Guo, Woosuk Kim, Leo Duan, Zhongjun Zhang, Dan Li, Yue Zhang, Negar Jaberansari, Hongxiang Shi, Pulong Ma, Ahmad Hanandeh, Weije Su, Weizhe Su, Anushka Palipana, Haichao Zhang, and Taiwo Fagbohungbe
  - Current
 

Fagbohungbe, Taiwo, Ouyang, Jiarong and Eric Odom,
- Department of Environmental Health:  
 Mario Medvedovic, Angela Booth Jones, Bonita Singal, Bin Huang, Lanlan Wu, Jingui Liu, Wei Zhong, Junhai Guo, Junxiang Luo, and Maureen Sartor, Nick Clark, Lixia Zhang, and Sarah Davidson.
- Department of Quantitative Analysis:  
 Tim Keyes, Nela Zavaljevski, Min Li, Michael Schwiers, and Tracy Zhou.
- Department of Economics  
 Hmed Namavari

#### **M. S. COMMITTEES**

Served on MS Oral Exam Committees of more than 80 students.

#### **UNDERGRADUATE CAPSTONE PROJECTS SUPERVISION**

Mitchell Becker, Time Series Modeling of CPI of UK and USA. Fall 2014  
 Evan Gire, Spring 2015  
 Anthony Voto, Spring 2015

#### **PRESENTATIONS AT PROFESSIONAL MEETINGS**

Bayesian Robustness with  $\$\\epsilon$$ -contamination classes. Department of Statistics, University of Wisconsin, Madison, WI. Aug. 1986.

Sensitivity of certain Bayes Procedures. Department of Statistical Sciences, Southern Methodist University, Dallas. Jan. 1987.

Sensitivity of Posterior Summaries to Prior Uncertainty.  
 Work Shop on Bayesian robustness. Purdue University. March 1989.

Robust Bayesian Analysis for priors with specified quintiles.  
 Annual Statistics Conference, Washington, D.C. Aug. 1989.

An assessment of sensitivity in Empirical Bayes Testing.  
 4th Valencia International Conference, Valencia, Spain. April 1991.



Robust Bayesian Diagnostics.  
Colloquium, Department of Statistics, Purdue University. December 1991.

Bounds on Posterior Expectations for Density Bounded  
Class with fixed Bandwidth. International Workshop in Bayesian Robustness. Milano, Italy. May 1992.

Optimal Robust Credible Sets for Contaminated Priors.  
Fifth Purdue Symposium on Statistical Decision Theory and  
Related Topics, Purdue University. June 18, 1992.

Optimal Robust Credible Sets for Density Bounded Priors.  
45th Meeting of the NBER-NSF Seminar on Bayesian Inference,  
Duke University. November 14, 1992.

Likelihood based Robust Bayesian analysis.  
Annual Statistical Meeting in Toronto, August 1994.

Global and Local robustness in multidimensional  
problems. Second International Workshop on Bayesian Robustness,  
in Rimini, May 1995.

Testing for Homogeneity in Power law Processes using IBF.  
Second International Workshop on Bayesian Robustness,  
Caracas, November 1995.

Bayesian Robustness: An Overview.  
Department of Statistics, University of Northern Illinois, DeKalb, April 1996.

Intrinsic Bayes Factors for Power Law Process.  
Workshop on Default Bayesian Methods, November, 1996. Purdue University.

A Default Bayesian estimation in Non-Standard Mixtures.  
6th Valencia Meeting, Spain, June 1998.

Bayes factors for test of hypotheses concerning the drift of a Brownian Motion, 6th Valencia Meeting,  
Valencia, Spain, June 1998.

Partial Bayes factors for test of hypotheses for Diffusion Processes  
Workshop on Bayesian Inference and Stochastic processes, Madrid, Spain, June 1998.

Bayesian Methods for Common Principal Components  
ASA Meeting, Aug. 2000, Indianapolis.

Objective Bayesian testing of covariance structures  
September, 2000, Ixtapa, Spain.

Change Point Problems in Non-Homogeneous Poisson Processes.  
ASA Meeting, New York, August 2002.

Objective Bayesian Methods for Poisson Models  
International Workshop in Objective Bayesian Analysis, Granada , Spain, Dec. 2003



Objective Bayesian Methods for Poisson Models  
International Workshop in Objective Bayesian Analysis, Modane, France, June 2003

Objective Priors for some Measurement Error Models  
OBayes5, Branson, Missouri, June 2005

Clustering Expression Profiles  
University of Texas MD Anderson Cancer Center, Nov. 2005.

Subgroup Analysis: A Stylized Bayes Approach.  
SAMSI, Research Triangle Park, NC, July 2006

Subgroup Analysis: A Stylized Bayes Approach.  
ENAR Spring Meeting, Atlanta, GA, March 12, 2007

Objective Bayesian Testing of Poisson Models  
IMST Meeting, March 2008.

Bayesian Frailty Models for Correlated Interval Censored data.  
Frontiers of Statistical Decision Theory and Bayesian Analysis, March 2010  
San Antonio, Texas

Objective Bayesian Testing of Poisson Models  
SAMSI, RTP, NC, May 2010.

How Many Subjects?  
Workshop on Bayesian Semi-Parametric Methods in PK/PD  
SAMSI, RTP, NC, July, 2010.

A Two-Stage Dirichlet Process for Clustering  
8<sup>th</sup> International Workshop on Bayesian Nonparametrics  
Veracruz, Mexico, June 2011.

Robustifying A Non-Linear Model  
Joint Statistical meetings, San Diego, CA. August 2012

A Bayesian approach to log-bimomial model.  
East National University, Shanghai, China.  
Jan. 2013.

Invited Discussant at OBayes 2013, Duke University  
Dec. 2013

Role of Prior in Bayesian Multiplicity Adjustment  
Invited presentation at an International Workshop in Shanghai, June 2014

Subgroup Finding via Bayesian Additive Regression trees.  
Invited presentation in a Special Contributed session, joint stat. Meetings,  
Boston, Aug. 2014

Subgroup Finding using BART", MCP 2017, June 2017, University of California, Riverside.



Objective Bayesian Multiplicity Adjustment. PhD student Emrah Gecili Presented at Joint Statistical Meetings, Washington, D.C., Aug. 2017

Objective Bayesian Multiplicity Adjustment. PhD student Emrah Presented a Poster at the International Objective Bayes Workshop in UT Austin, Dec. 2017.

Subgroup Finding using a Collection of ANOVA Models.

Workshop on Causal Inference, OSU, June 2019.

An Objective Bayesian Multiple Testing for Correlated Binomial Proportions.  
JSM, Aug. 2019, Denver, CO.

Non-Local Objective Priors. 5<sup>th</sup> EAC-ISBA Meeting, 2021. Virtual.

A Default Bayesian Approach to multiple testing of multiple proportions, EAC-ISBA, June 2024.

## Co-Authoir Presentations

Co-Author Presented invited presentation, at an International Workshop in Shanghai, June 2014 “ANOVA Based Bayesian Subgroup Analysis” 2013

Bayesian LASSO for Non-Stationary Gaussian Linear Mixed Effects Model  
Emrah, Gecili, CCHMC. JSM 2019, Denver, CO.

Subgroup Finding Using a Collection of ANOVA Models.

Prushottam Laud., Workshop on Multiplicity. Shanhai. Dec. 2013.

## OTHER ACTIVITIES

- Organized Barnett lecture, 2014. Attended by about 300 people.
- Organized a Half-day Graduate Students Workshop at UC  
Coinciding with Barnett Lecture, 2014, I organized a half-day workshop to benefit graduate students. Was attended by about 50 people including about 25 graduate students.

## REVIEWER FOR JOURNALS:

Annals of Statistics

Journal of American Statistical Association

Bayesian nalysis

Journal of Statistical Planning and Inference

Communications in Statistics

Biometrika

Canadian Journal of Statistics

J. of Statistical Computation and Simulation



Scandinavian J. of Statistics  
Brazilian J. of Statistics  
Epidemiology  
J Statistical Theory and Practice  
BMC Medical Research Methodology  
Journal of Statistical Interface  
Statistical Science  
Statistical Interface  
Stat in Medicine  
Statistical Modeling  
J. Stat Computing and Simulation  
BMC Bioinformatics

