Fokoué, Ernest

EDUCATION

Ph.D	Department of Statistics, *University of Glasgow*, Scotland (2001). Dissertation: Contribution to the Analysis of Latent Structures Advisor: *Professor D. M. Titterington*
M.Sc	Neural Computing Research Group, *Aston University*, England (1998). Thesis: Mean Field Methods for Gaussian Process Classifiers
Maîtrise	Maths and Computing, *University of Yaoundé*, Cameroon, (1990).
B.Sc	Maths and Computing, *University of Yaoundé*, Cameroon, (1989).

RESEARCH INTERESTS

- ☐ Bayesian Statistical Methodology, Theory, Computation and Applications.
- ☐ Statistical Learning Theory, Machine Learning and Data Science.
- ☐ Artificial Intelligence, Neural Networks and Biologically Inspired Learning Systems.

ACADEMIC EXPERIENCE

- ☐ Program Co-Leader and Co-Organizer, **Games, Decisions, Risk and Reliability**, *Statistical and Applied Mathematical Science Institute*, *Fall 2019 - Spring 2020*.
- ☐ Senior Visiting Scholar, School of Mathematical Sciences, Fudan University, Shanghai, People's Republic of China, *July-August 2018 and subsequent summers*.
- ☐ PhD Advisor in Data Science, African Center of Excellence in Data Science (ACE-DS), Kigali, University of Rwanda, *January 2018-Present*.
- ☐ Visiting Professor of Statistical Machine Learning and Data Science, African Institute for Mathematical Sciences (AIMS), Kigali, Rwanda, *January 2018-Present*.
- ☐ PhD Affiliated Faculty, GCCIS, RIT, *April 2014 - Present*.
- ☐ Visiting Professor, Laboratoire de Mathématiques de Bretagne Altantique (LMBA), Université de Bretagne-Sud (UBS), Vannes, France, *June. 2015 - July 2015*.
- ☐ Graduate Affiliated Faculty, Center for Imaging Science, RIT, *April 2014 - Present*.
- ☐ Associate Professor, Rochester Institute of Technology, USA, *April. 2012 - Present*.
- ☐ Assistant Professor, Rochester Institute of Technology, USA, *Aug. 2009 - March 2012*.
- ☐ Visiting Research Fellow, Statistical and Applied Mathematical Science Institute/Duke University, Research Triangle Park, North Carolina, USA, *Jan 09 - Mar 09*.
- ☐ Assistant Professor of Mathematics, Kettering University, USA, *Sep. 2006 - May 2009*.
- ☐ Assistant Professor of Statistics, The Ohio State University, USA, *Oct. 2001 - Sep 2005*.
- ☐ Postdoctoral Research Fellow and Visiting Research Assistant Professor, Statistical and Applied Mathematical Science Institute and Duke University, USA, *Sep 03 - Aug 04*.
- ☐ Graduate Teaching Assistant, University of Glasgow, UK, *Jan. 1999 - Jun 2001*.
- ☐ Assistant Lecturer of Computing Science, Catholic University of Central Africa, Cameroon, *Oct. 1995 - Sep 1997*.

HONORS AND DISTINCTIONS

- ☐ Invited Speaker, *February Fourier Talks 2018*, Norbert Wiener Center, Department of Mathematics, University of Maryland, College Park, MD, February 14-16, 2018. `http://www.norbertwiener.umd.edu/FFT/2018/index.html`
- ☐ Keynote Speaker, *2017 UNIK International Scientific Research Conference*, Rwamagan, Republic of Rwanda (Africa), July 13-14, 2017.
- ☐ Keynote Speaker, *International Conference SADA 2016*, Cotonou, Republic of Benin (Africa), Nov 28-Dec 3, 2016.
- ☐ Keynote Speaker, *StatLearn 2016.*, Annual of Statistical Machine Learning Workshop organized by Société Francaise de Statistique, France, April 2016.
- ☐ Keynote Speaker, *Flint International Statistics Conference.* Flint, Michigan, June 2014.
- ☐ Elected Member, of the *International Statistical Institute.* Distinction/Recognition conferred for Contribution to Statistical Science (2012).
- ☐ Leadership Recognition Award, awarded by the *American Statistical Association.* Recognition conferred for exemplary leadership of the Rochester Chapter of the ASA (2012).
- ☐ Winner of the Young Researchers' Prize, awarded by the *International Association of Statistical Computing*. Prize received at the Computational Statistics Conference (2000) in Utrecht, Netherlands.

BOOKS

- ☐ Clarke, B, Fokoué, E and Zhang, H (2009). Principles and Theory for Data Mining and Machine Learning. Springer Verlag, New York, (ISBN: 978-0-387-98134-5), (2009).
- ☐ Fokoué, E (2016-present). Statistical Machine Learning for Data Science. *In preparation.*

PROFESSIONAL MEMBERSHIPS

- ☐ Elected Member of the International Statistical Institute
- ☐ Member of the American Statistical Association
- ☐ Member of the International Neural Networks Society
- ☐ Member of the American Association for the Advancement of Science
- ☐ Member of the IEEE
- ☐ Member of the International Association for Statistical Computing.

PROFESSIONAL SERVICE

- ☐ General Chair, Founder and Lead Organizer, UP-STAT Conference Series, Annual Conference of the Upstate New York Chapters of the American Statistical Association (ASA), UP-STAT 2012, 2013, 2014, 2015, 2016, 2017, 2018. View recent UP-STAT page here.
- ☐ Founding Coordinator, and Lead Organizer, ASA DataFestRIT, Annual National Statistical Data Science Competition, coordinated by the American Statistical Association (ASA), UP-STAT 2017, 2018.
- ☐ President, Rochester Chapter, American Statistical Association, July 2011-July 2014.

- ☐ Member of the search committee for the *Head of the Department of Industrial and Systems Engineering*, Academic Year 2010-2011, RIT, USA.
- ☐ Member of the committee. *RIT Global Education Task Force*, 2011-present, RIT, USA.
- ☐ Member of the Founding Committee. *MS in Data Science*, March 2014-present.

ORGANIZATIONAL AND LEADERSHIP ACTIVITIES

- ☐ General Chair, Founder and Lead Organizer, UP-STAT Conference Series, Annual Conference of the Upstate New York Chapters of the American Statistical Association (ASA), UP-STAT 2012, 2013, 2014, 2015, 2016, 2017, 2018.
- ☐ Founding Coordinator, and Lead Organizer, ASA DataFestRIT, Annual National Statistical Data Science Competition, coordinated by the American Statistical Association (ASA), UP-STAT 2017, 2018.
- ☐ Founder and Leader of the Data Science Research Group (DSRG), *Center for Quality and Applied Statistics*, *Rochester Institute of Technology*, August 2009-Present.
- ☐ Organizer of the section Bayesian Methods for Inverse Problems, *59th Conference of the International Statistical Institute*, *Durban, South Africa*, August 2009.
- ☐ Member of the Scientific Committee. International Conference of Mathematical Sciences, 04-10 August 2009, Istanbul, Turkey.
- ☐ Chair of the Data Mining II session at the 2004 Meeting of the International Federation of Classification Societies, Chicago, IL, 2004.
- ☐ Organizer and Leader of the Bayesian team of the Support Vector Machine group within the SAMSI Data Mining and Machine Learning Program, 2003-2004.

AWARDS AND GRANTS

- ☐ March 2001, Workshop Participation Grant, *Nonlinear Estimation and Classification*, Mathematical Sciences Research Institue, University of California, Berkeley, CA, USA.
- ☐ September 2000, Conference Participation Grant, *Spatial and Computational Statistics*, Ambleside, United Kingdom.
- ☐ Oct. 1999 - Sep 2001, Graduate Teaching Assistantship and Research Studentship, Department of Statistics, University of Glasgow, United Kingdom.
- ☐ Oct. 1998 - Sep 1999, PhD. Research Studentship, Department of Statistics University of Glasgow, United Kingdom.
- ☐ Jun. 1998 - Sep 2000, PhD. Research Studentship, School of Mathematics University of Derby, United Kingdom. *Grant not used due to move to the University of Glasgow.*
- ☐ Oct. 1997 - Oct. 1998, MSc Research Studentship (Stipend for Maintenance), Neural Computing Research Group Aston University, United Kingdom.
- ☐ Oct. 1999 - Sep 2000, Master of Science Research Studentship (Overseas Tuition Fees), ODASS British Government Overseas Scholarship, United Kingdom.
- ☐ Oct. 1986 - Sep 1991, Undergraduate and Postgraduate Scholarship, Ministry of Higher Education, Cameroon.

LANGUAGE PROFICIENCY

- ☐ English, French, Spanish, Italian, Dialect (Excellent)
- ☐ Russian, German, Portuguese (Very good)
- ☐ Chinese, Japanese (Basic)

"Life is good for only two things, discovering mathematics and teaching mathematics." — Siméon Denis Poisson

SELECTED REFEREED PUBLICATIONS[1]

- ☐ Fokoué, Ernest (2019) Model Selection and Ensemble Learning for Optimal Prediction, *Notices of the American Mathematical Society.*, Vol xx, Pages xx-xx, 2019. Paper invited by the Editor. To appear in early 2019.
- ☐ Chen, Boyu and Lu, Wenlian and Fokoué, Ernest (2019) Meta-Learning with Hessian Free Approach in Deep Neural Nets Training, *Association for the Advancement of Artificial Intelligence (www.aaai.org) Conference.*, Vol xx, Pages xx-xx, 2019. Submitted.
- ☐ **Floyd, C. M. and** Hoffman, Matthew and Fokoué, Ernest (2019) Shot-by-Shot Stochastic Modeling of Individual Tennis Points, *Journal of Quantitative Analysis in Sports (JQAS)*, Vol xx, Pages xx-xx, 2019. *Revision Requested by the Editor.*
- ☐ Fokoué, E. and **Brimkov, B.** (2018) The Multifaceted Impact of Statistical Methodology and Theory in Data Science, *Mathematics for Applications*, Vol 7, Pages 1-2, 2018. Download here.
- ☐ **Elshrif, M.** and Fokoué, E. (2018) Random subspace learning (RASSEL) with Data Driven Weighting Schemes, *Mathematics for Applications*, Vol 7, Pages 11-30, 2018. DOI: 10.13164/ma.2018.02. Download here.
- ☐ **Olinto, G. G.** and Fokoué, E. (2018) Kernelized Cost-Sensitive Listwise Ranking, *Mathematics for Applications*, Vol 7, Pages 31-40, 2018. DOI: 10.13164/ma.2018.03.
- ☐ **Wu, Q.** and Fokoué, E. and Kudithipudi, D. (2018) An Ensemble Learning Approach to the Predictive Stability of Echo State Networks, *Journal of Informatics and Mathematical Sciences (JIMS)*, Vol 10, Numbers 1-2, Pages 181-199, 2018. http://dx.doi.org/10.26713/jims.v10i1-2.827
- ☐ **Corsetti, M.** and Fokoué, E. (2018) Nonnegative Matrix Factorization with Toeplitz Penalty, *Journal of Informatics and Mathematical Sciences (JIMS)*, Vol 10, Numbers 1-2, Pages 201-215, 2018. http://dx.doi.org/10.26713/jims.v10i1-2.851
- ☐ Fokoué, E. (2018) To Bayes or Not to Bayes? That's No Longer the Question. *Indian Bayesian Society Newsletter*, Vol XV, Number 1, Pages 2-15. Featured Paper.
- ☐ Fokoué, E. and **Ma, Z.** (2018) Bayesian variable selection for linear regression with the κ-G priors, *Communications in Statistics: Theory and Methods*, Vol xx, Number xx, Pages xx-xx, 2018. *Revision Invited by the Editor.*
- ☐ **Seo, S.** and Fokoué, E. (2017) Estimation of Community Views on Criminal Justice a Statistical Document Analysis Approach, *Journal of Advances in Mathematics and Computer Science (JAMCS)*, Vol 25, Issue Number 6, Pages 1-21, 2018. DOI : 10.9734/JAMCS/2017/38582
- ☐ **Mnatzaganian, J.** and Fokoué, E. and Kudithipudi, D. (2017) A Mathematical Formalization of Hierarchical Temporal Memory's Spatial Pooler, *Frontiers in Robotics and AI*, Vol 3, Article 81, 2017. Download here.
- ☐ Fokoué, E. and **Ravi, L.** and Kudithipudi, D. (2017) A penalized maximum Likelihood Approach to the Adaptive Learning of the Spatial Pooler Permanence, *In 2017 International Joint Conference on Neural Networks (IJCNN)*, Pages 962-967, May 2017.
- ☐ Gündüz, N. and Fokoué, E. (2017) Predictive Performances of Implicitly and Explicitly Robust Classifiers on High Dimensional Data, *Communications Series A1: Mathematics and Statistics*, Volume 66, Number 2, Pages 14-36, 2017. DOI:10.1501/Commua10000000797. Download here.

[1]Bold face names are student co-authors

- ☐ Gündüz, N. and Fokoué, E. (2017). On the Predictive Properties of Binary Link Functions, *Communications Series A1: Mathematics and Statistics*, Volume 66, Number 1, Pages 1-18, 2017. DOI:10.1501/Commua10000000770. Download here.
- ☐ **Zhang, X. and Rollins, B.** and Gündüz, N. and Fokoué, E. (2017) Estimating the strength of the impact of rushing attempt in NFL game outcomes, *British Journal of Mathematics & Computer Science*, Vol 22, Number 4, Pages 1-12, 2017. DOI: 10.9734/BJMCS/2017/31565.
- ☐ **Jha, U. K.** and Bajorski, P. and Fokoué, E. and Van Aardt, J. and Anderson, G. (2017) Dimensionality Reduction of High-Dimensional Highly Correlated Multivariate Grapevine Dataset, *Open Journal of Statistics*, Vol 7, Number 4, Pages 702-717, 2017.
- ☐ Rantanen, E. M. and Fokoué, E. and Gegner, K. and **Haut, J.** and Overbye, T. J. (2017) Data properties underlying human monitoring performance, *In Human Factors and Ergonomics Society 2017 Annual Meeting*, Pages 1711-1715. SAGE Publications, October 2017. `http://journals.sagepub.com/doi/10.1177/1541931213601976`.
- ☐ **Jauhari, S. and Morankar, A.** and Fokoué, E. (2017) Predictive Analytics Tools for Identifying The Keys to Victory in Professional Tennis, *Journal of Computer and Communications*, Vol xx, Number xx, Pages xx-xx, 2017. To appear
- ☐ N. Gündüz and E. Fokoué (2016) An Information-Theoretic Alternative to the Cronbach's Alpha Coefficient of Item Reliability, *British Journal of Mathematics & Computer Science*, Volume 15, Number 1, Pages 1-9, 2016. DOI:10.9734/BJMCS/2016/23944.
- ☐ **Ly, V.** and Fokoué, E. (2016) Frequentist Approximation of the Bayesian Posterior Inclusion Probability by Stochastic Subsampling, *British Journal of Mathematics & Computer Science*, Vol 18, Number 5, pp 1-22, 2016. DOI:10.9734/BJMCS/2016/27023.
- ☐ **Zhang, X.** and Bramati, M. C. and Fokoué, E. (2016) Using Dynamic Bayesian Networks to Characterize and Predict Job Placement, *ICCSS 2017: International Conference on Computational Social Science, Amsterdam, The Netherlands, (May 14-15, 2017)*, Volume 3, Number 5, Page 3035, 2016.
- ☐ Fokoué, E. (2016) Prediction Error Reduction Function as a Variable Importance Score, *British Journal of Mathematics & Computer Science*, Vol 15, Number 3, Pages 1-9, 2016. DOI:10.9734/BJMCS/2016/23945.
- ☐ Fokoué, E (2016), Unsupervised Learning, *Wiley StatsRef: Statistics Reference Online*, pp. xx-xx, 2016. Published by Wiley. Invited Paper, (To appear)
- ☐ **Corsetti, M.** and Fokoué, E (2015) Nonnegative Matrix Factorization with Zellner Penalty, *Open Journal of Statistics*, Vol. 5, No. 7, pp. 777-786, December 2015.
- ☐ **Liu, B.** and Fokoué, E (2015) Random Subspace Learning Approach to High-Dimensional Outliers Detection, *Open Journal of Statistics*, Vol. 5, No. 6, pp. 618-630, October 2015.
- ☐ Dey, T. and Fokoué, E (2015) Bayesian Variable Selection for Predictively Optimal Regression, Book Chapter, *Current Trends in Bayesian Methodology with Applications*, Editors, Dipak K. Dey, Umesh Singh and A. Loganathan, Published by Chapman & Hall/CRC Press, 2015.
- ☐ Fokoué, E (2014) A Taxonomy of Big Data for Optimal Predictive Machine Learning and Data Mining, *Serdica Journal of Computing*, Volume 8, Number 2, pp 111-136, 2014.
- ☐ **Bill, J.** and Fokoué, E (2014) A Comparative Analysis of Predictive Learning Algorithms on High-Dimensional Microarray Cancer Data, *Serdica Journal of Computing*, Volume 8, Number 2, pp 137-168, 2014.

- ☐ **Ma, Z.** and Fokoué, E (2014) Accent Recognition For Noisy Audio Signals, *Serdica Journal of Computing*, Volume 8, Number 2, pp 169-182, 2014.
- ☐ **Yu, X.** and Fokoué, E (2014) Probit Normal Correlated Topic Models, *Open Journal of Statistics*, Vol. 4, No. 11, pp. 879-888, December 2014.
- ☐ **Ma, Z.** and Fokoué, E (2014) A Comparison of Classifiers in Performing Speaker Accent Recognition Using MFCCs, *Open Journal of Statistics*, Vol. 4, No. 4, 258-266, 2014.
- ☐ Fokoué, E (2014) A Taxonomy of Big Data for Optimal Predictive Machine Learning and Data Mining, *Journal of Computing*,(To appear)
- ☐ Fokoué, E (2013) Simultaneous Variable Selection and Sensor Selection using Convex Penalties, *Interstat*, April 2013.
- ☐ Fokoué, E (2012) Beta Induced Sparsity Algorithm, *Advances and Applications in Statistical Sciences*, Volume 7, Issue 7, October 2012, Pages 75-82
- ☐ Fokoué, E (2011) Stable Radial Basis Function Selection via Mixture Modelling of the Sample Path, *Journal of Data Science*, Vol 9, Issue 3, pp. 345-358, October 2011.
- ☐ Fokoué, E and Sun, D. and Goel, P. (2011) Fully Bayesian Analysis of the Relevance Vector Machine With Extended Prior, *Statistical Methodology*. Vol 8, Pages 83-96, 2011.
- ☐ Fokoué, E and Goel, P. (2011) An Optimal Experimental Design Perspective on Radial Basis Function Regression, *Communications in Statistics: Theory and Methods*, Vol 40, Issue 6, Pages 1-12, 2011.
- ☐ Fokoué, E and B. Clarke (2009) Bias Variance Trade off for Prequential Model List Selection, *Statistical Papers*. Here, 2009.
- ☐ Fokoué, E (2009) Bayesian computation of the Intrinsic Structure of Factor Analytic Models, *Journal of Data Science*, Volume **7**, Number **3**, *pp. 285-311*, 2009.
- ☐ Fokoué, E. (2009) Latent Variable Models in Heterogeneous Spaces for Observations of Mixed Types , *Communications in Statistics - Theory and Methods*. **38**, pp. 1-12, 2009
- ☐ Fokoué, E. (2008) Foundational Aspects of the Theory of Statistical Function Estimation and Pattern Recognition, *Bulletin of PFUR, Series Mathematics, Information Sciences, Physics*. **3**, pp. 40-54, 2008.
- ☐ Fokoué, E. (2007) Estimation of Atom Prevalence for Optimal Prediction, *Contemporary Mathematics*, Vol **443**, pp 103-129, The American Mathematical Society.
- ☐ Fokoué, E. (2004) Mixtures of Factor Analysers: An Extension with Covariates. *Journal of Multivariate Analysis*, **95**, 370-384
- ☐ Fokoué, E. and Titterington, D. M. (2003) Mixtures of Factor Analysers: Bayesian Estimation and Inference by Stochastic Simulation, *Machine Learning*, **50**, 73-94.
- ☐ Csató, L., Fokoué, E, Opper, M, Schottky, B., Winther, O. (2000) Efficient Approaches to Gaussian Process Classification, *Advances in Neural Information Processing Systems* **12**, S. A. Solla, T. K. Leen, K.-R. Müller, eds., MIT Press, 2000.

To understand God's thoughts, one must study statistics ... the measure of His purpose.
Florence Nightingale

MANUSCRIPTS IN PREPARATION FOR SUBMISSION

- ☐ Lu, Wenlian and Fokoué, E. (2018). *An Integrated Regularization Framework of Brain-wide Association Learning with Application to Detection of Schizophrenia from fMRI data. Journal*, Pages xx-xx, 2018. In Preparation.
- ☐ **Raja, Sanjeev** and **Luo, Joyce** , and Fokoué, E (2018) Novel Detection, Pattern Recognition and Early Warning for Large Electric Grid Networks, *In preparation*, 2019.
- ☐ **Sanford, Roland** and Fokoué, E. (2019). *Bounds on the generalization error of learning machines trained via Stochastic Gradient Descent under various Runge-Kutta conditions. Journal*, Pages xx-xx, 2019. In Preparation.
- ☐ **Wu, Qiuyi** and Fokoué, E. (2019). *Statistical Discovery of Musical Topics: A case study on a Jazz Corpus. Journal*, Pages xx-xx, 201. In Preparation.
- ☐ Fokoué, E. (2019). *Comprehensive Kernel Regression with Network Cohesion. Journal*, Pages xx-xx, 2018. In Preparation.
- ☐ Gündüz, N. and Fokoué, E. (2018). *A dedicated combinatorial distance for ordinal Likert-type statistical learning tasks. Journal*, Pages xx-xx, 2018. In Preparation.
- ☐ Fokoué, E (2018) A Taxonomy of Massive Data for Data Mining, *WIREs Data Mining and Knowledge Discovery*, Published by Wiley. Invited Paper, (To appear)
- ☐ Fokoué, E (2018) Kernel Regression, *WIREs Computational Statistics*, Published by Wiley, Invited Paper, (To appear)
- ☐ Fokoué, E. (2018) Statistical Building Blocks of Data Science, *Submitted*, Vol xx, Number xx, pages xx-xx, 2018. In preparation.
- ☐ **Wilcox, K. T.** and Fokoué, E. (2019) Bayesian Estimation for Hidden Markov Topic Models, *Journal*, Pages xx-xx, 2019. In preparation.
- ☐ **Sah, P. K** and Fokoué, E (2018). Random Subspace Learning Approach to High-Dimensional Outliers Detection, Pages xx-xx, 2018. In preparation.
- ☐ Fokoué, E. (2018). *A Spectral Regression for Large p small n data. Journal*, Pages xx-xx, 2018. In Preparation.
- ☐ **Qahl, S.** and Fokoué, E (2018). A Text Mining Approach to Measuring Sacred Texts Similarity, *Open Journal of Statistics*, Vol. 5, No. , pp. xxx-xxx, December 2018.
- ☐ Gündüz, N. and Fokoué, E. (2019) Statistical Discovery of Striking Patterns in the Evaluation of Professors by Students, , 2019. To be Submitted.

EDITORIAL AND REVIEWING ACTIVITIES

- ☐ Guest Editor: *Special Issue of Mathematics for Applications, 2018*
- ☐ Article Reviewer for: *Bayesian Analysis*, *Statistical Methodology*, *Annals of Applied Statistics*, *Communications in Statistics: Theory and Methods*, *Computational Statistics*, *Journal of Machine Learning Research*, *Computational Statistics and Data Analysis*, *Journal of Computational and Graphical Statistics*, *Statistical Analysis and Data Mining*, *IEEE Signal Processing Letters*, *Journal of Statistical Planning and Inference*, *Journal of Mathematical Modelling and Algorithms*, *Mathematics for Applications*, *Psychometrika*, *Tribology*, , *InterStat*, *Energies*.
- ☐ Grants Reviews: *National Science Foundation (NSF) Research Grant Proposals.*

EXTRAMURAL FUNDING ACTIVITIES

The following table summarizes my extramural funding activities. All the grant proposals in preparation like my current grant proposal for the UP-STAT conference series, are not shown.

RAPID

4/12/2018 10:22 AM

Search Proposals

Current results:
- Contains text: *Fokoue*

16 Proposals found

SRS #	Department	PI	Sponsors	Title	Status	Requested Amt	Submit Date
11070361	KGCOE - Center for Quality and	**Fokoue**, Ernest	DOE	COMPUTATIONALLY EFFICIENT TECHNIQUES FOR	Not Funded	$758,142	1/20/11
12060300	KGCOE - Center for Quality and	**Fokoue**, Ernest	Praxair, Inc.	Applied Statistical Data Mining Seminar for	Not Funded	$12,900	12/7/11
12050256	KGCOE - Center for Quality and	**Fokoue**, Ernest	Praxair, Inc.	Applied Statistical Data Mining Seminar for	Not Funded	$12,900	11/23/11
17040200	COS - SMS - Mathematics &	**Fokoue**, Ernest	NSF	FRG: Nonparametric Statistical Techniques for	Not Funded	$710,440	10/20/16
17110640	CLA - Psychology	Rantanen, Esa	DOE/DOE-BPA	Visualization and Human Factors Considerations for	Pending	$381,108	5/11/17
15060357	KGCOE - Computer	Kudithipudi, Dhireesha	Seagate Technology	Custom HTM Architecture integrated with Flash Memory.	Funded	$135,769	12/16/14
15120693	COS - SMS - Mathematics &	Harkin, Tony	Citizengine, Inc.	iCitizen Data Science	Withdrawn	$47,899	6/18/15
16100574	KGCOE - Computer	Kudithipudi, Dhireesha	NSF	EsCDA: Type I: Collaborative Research: NanoElectronic	Pending	$379,889	4/25/16
15110614	CLA - Psychology	Rantanen, Esa	DOE-BPA	Improving Operator Situation Awareness by Phasor	Funded	$314,705	5/7/15
12110614	CLA - Psychology	Rantanen, Esa	NASA	Data Mining and Machine-Learning Techniques to Derive	Not Funded	$443,040	5/2/12
14031603	CLA - Psychology	Rantanen, Esa	NASA	Objective Measures of System and Human Performance	Not Funded	$90,940	9/23/13
12050229	KGCOE - Center for Quality and	Evershed, Gregory	Praxair, Inc.	Applied Statistical Data Mining Seminar for	Funded	$12,900	11/14/11
12080468	KGCOE - Industrial &	Proano, Ruben	NSF	Collaborative Research: Facilitating the Analysis of	Not Funded	$302,819	2/21/12
12060309	KGCOE - Industrial &	Proano, Ruben	RWJF	Informing the Transition to Bundled Payment	Not Funded	-	12/8/11
12120739	KGCOE - Center for Quality and	Evershed, Gregory	Multiple	Workforce Development - FY2012 [roll-up]	Funded	-	6/27/12
13040969	KGCOE - Center for Quality and	Evershed, Gregory	Multiple	Workforce Development - FY2013 [roll-up]	Funded	-	10/23/12

RECENT CONFERENCE PROCEEDINGS

- ☐ **Foehrenbach, D.** and Fokoué, E (2011). On the optimal prediction of team performance in the NFL, *Proceedings of the Joint Statistical Meetings (JSM), Miami Beach, Florida, USA*, August 2011
- ☐ Fokoué, E (2009). Efficient Derivation of Sparse Representations in Radial Basis Function Regression, *Proceedings on the 59th Conference of the International Statistical Institute, Durban, South Africa*, August 2009.
- ☐ Fokoué, E and B. Clarke (2004). Optimal Model List Selection for Function Approximation. Proceedings of Interface 2004, Baltimore, MD, USA.
- ☐ Fokoué, E. (2000). A Markov Chain Monte Carlo (MCMC) Approach to the Bayesian Analysis of Mixtures of Factor Analysers. *In Volume of Short Communications and Posters*, Proceedings of Computational Statistics, COMPSTAT 2000, Utrecht University and Statistics Netherlands, 2000.

RECENT TECHNICAL REPORTS AND WORKING PAPERS

- ☐ Fokoué, E. and Gündüz, N.(2015). *Information-Theoretical Alternative to the Cronbach's Alpha Coefficient of Item Reliability*. Working Paper, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2015-1, October 2014.
- ☐ Fokoué, E. (2014). *Efficient Diagonal Orthant Multicategorical Classification with Application to DNA Microarray Gene Expression Data*. Working Paper, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-8, October 2014.
- ☐ Fokoué, E. (2014). *Prediction Error Reduction Function (PERF): Finding the Most Valuable Predictor (MVP)*. Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-7, October 2014.
- ☐ **Yu, X.** and Fokoué, E. (2014). *Probit Normal Correlated Topic Models*. Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-6, October 2014.
- ☐ Gündüz, N. and Fokoué, E. (2014). *Predictive Performance Comparison of Robust Classifiers on ε-Contaminated High Dimension Low Sample Size Data*. Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-5, September 2014.
- ☐ **Elshrif, M.** and Fokoué, E. (2014). *Adaptive Random Subspace Learning for Optimal Predictive Ensembles*. Working Paper, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-4, June 2014.
- ☐ Fokoué, E. (2014). *A Spectral Regression for Large p small n data*. Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-3, May 2014.
- ☐ Fokoué, E. (2014). *Harnessing the Predictive Potential of k-Nearest Neighbors Machines*. Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-2, February 2014.

- ☐ **Ly, V.** and Fokoué, E. (2014). *Frequentist approximation of the Bayesian Posterior Inclusion Probability by stochastic subsampling.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2014-1, January 2014. `http://goo.gl/C8U5Q4`
- ☐ **Foehrenbach, D.** and Fokoué, E. (2013). *A Statistical Data Mining Approach to Determining the Factors that Distinguish Championship Caliber Teams in the National Football League.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-6, November 2013.
- ☐ **Ma, Z.** and Fokoué, E. (2013). *Speaker Gender Recognition via MFCCs and SVMs.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-5, November 2013.
- ☐ **Ma, Z.** and Fokoué, E. (2013). *Modern Multivariate Methods for Accurate Dialect Classification.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-4, November 2013.
- ☐ Fokoué, E. (2013). *A Taxonomy of Massive Data for Optimal Predictive Machine Learning and Data Mining.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-3, November 2013. `http://goo.gl/XbKUhr`
- ☐ Gündüz, N. and Fokoué, E. (2013). *Data Mining and Machine Learning Techniques for Extracting Patterns in Students' Evaluations of Instructors.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-2, September 2013. `http://goo.gl/JW8eui`
- ☐ Gündüz, N. and Fokoué, E. (2013). *On the Predictive Analytics of the Probit and Logit Link Functions.* Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2013-1, September 2013. `http://goo.gl/PwtNpu`
- ☐ Fokoué, E (2011). *Optimal Predictive Kernel Regression via Feature Space Principal Components*, Technical Report, Data Science Research Group, Center for Quality and Applied Statistics, Rochester Institute of Technology, Number CQAS-DSRG-2011-1, June 2011.
- ☐ Fokoué, E. and B. Clarke(2004). Optimum Model List Selection for Prediction. *Technical Report No. 2004-20.* Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC 27709, USA. August 2004.
- ☐ Fokoué, E. (2004). Stochastic Determination of the Intrinsic Structure in Bayesian Factor Analysis. *Technical Report No. 2004-17.* Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC 27709, USA, June 2004.
- ☐ Fokoué, E., and Goel, P. and Sun, D. (2004). A Prior for Consistent Estimation for The Relevance Vector Machine. *Technical Report No. 2004-16.* Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC 27709, USA, March 2004.

RESEARCH SUPERVISION ACTIVITIES

- ☐ Twagirayezu, Jean Pierre and Fokoué, E. (2017-2018). Kernel Regression with Network Cohesion. Thesis for Master of Science in Mathematical Sciences, *African Institute for Mathematical Sciences (AIMS), Kigali, Rwanda.*
- ☐ Wu, Qiuyi. and Fokoué, E. (2017-2018). Statistical Topic Modelling Methods for Music Mining and Improvisation Recognition. Master of Science Thesis, RIT.
- ☐ Sanford, Roland and Fokoué, E. (2017-2018). On Some Probabilistic Concentration Inequalities for Algorithm-Dependent Bounds on the Generalization of Statistical Learning Machines. Master of Science Thesis, RIT.
- ☐ Yang, Yidan and Fokoué, E. (2017-2018). State of the Methods for Statistical Face Recognition. Master of Science Thesis, RIT.
- ☐ Wilcox, K. Tyler and Fokoué, E. (2015-2017). Bayesian Hidden Markov Topic Models. Master of Science Thesis, RIT.
- ☐ Young, Jessica and Fokoué, E. (2016-2017). Predicting Cholera Positive Cases in Haiti. Master of Science Thesis, RIT.
- ☐ Floyd, Calvin M. and Fokoué, E. and Hoffman, M. (2016-2017). Applying Multi-Resolution Stochastic Modeling to Individual Tennis Points. Master of Science Thesis, RIT.
- ☐ Wu, Qiuyi. and Fokoué, E. (2017-2018). Statistical Methods and Computation for Ensembles of Echo State Networks. Master of Science Thesis, RIT.
- ☐ Lobato-Ramos, A. and Fokoué, E. (2015-2016). Random Adaptive Subspace Learning with Evolutionary Weights. Master of Science Thesis, RIT.
- ☐ Olinto, G. and Fokoué, E. (2015-2016). Predicting Optimal Ranking in Rare Event Context. Master of Science Thesis, RIT.
- ☐ Houston, P. and Fokoué, E. (2015-2016). Derivation of some theoretical bounds on the generalization error in adaptive boosting. Master of Science Thesis, RIT.
- ☐ Yang, S. and Fokoué, E. (2015-2016). Optimal Music Genre and Artist Recognition from Noisy Audio Tracks. Master of Science Thesis, RIT.
- ☐ Wilcox, K. T. and Fokoué, E. (2015-2016). Adaptive Nonhomogeneous Ensemble Learning for Optimal Prediction. Master of Science Thesis, RIT.
- ☐ Corsetti, M. and Fokoué, E. (2015-2016). Regularized Nonnegative Matrix Factorization with Application to Image Classification. Master of Science Thesis, RIT.
- ☐ Bill, J. and Fokoué, E. (2013-2014). Statistical and Computational Characterization of Machine Learning Algorithms on High Dimensional Low Sample Size Big Data. Master of Science Thesis, RIT.
- ☐ Yu, X. and Fokoué, E. (2013-2014). Efficient Bayesian Learning Approach to Probit Normal Correlated Models. Master of Science Thesis, RIT.
- ☐ Liu, B. and Fokoué, E. (2013-2014). Regularized Minimum Covariance Determinant (RMCD) for ε-Contaminated on Large p small n data. Master of Science Thesis Project, RIT.
- ☐ Qahl, S. and Fokoué, E. (2013-2014). A Text Mining Approach to the Determination of Sacred Texts Similarities. Master of Science Thesis, RIT.
- ☐ Elshrif, M. and Fokoué, E. (2013-2014). Adaptive Random Subspace Learning for Efficient Optimal Predictive Ensembles on Large p small n data. Regular Research, RIT.

- ☐ Cretekos, E. and Fokoué, E. (2012-2014). Comprehensive Analysis of Faculty Perception of Student Evaluation. Master of Science Thesis, RIT.
- ☐ Zichen Ma and Fokoué, E. (2013-2014). Statistical Machine Learning Techniques for Audio Signal Processing with Application to Dialect/Accent Classification. Master of Science Thesis, RIT.
- ☐ Ly, V. and Fokoué, E. (2013-2014). Frequentist Approximation of Bayesian Posterior Inclusion Probability via Stochastic Subsampling. Regular Research, RIT.
- ☐ Ladage, A. and Grasman, S. and Fokoué, E. (2013-2014). Efficient Supply Chain Prediction by Combination of Machine Learning Techniques and Traditionional Optimization. Master of Science Thesis, Department of Industrial and Systems Engineering, RIT.
- ☐ Rollins, B. and Fokoué, E. (2012-2013). Predicting success in the National Football League - An in-depth look at the factors that differentiate the winning teams from the losing teams. Regular Research, RIT.
- ☐ Korach, N. and Fokoué, E. (2012-2013). A Quantitative Analysis of Success Factors in the Association of Tennis Professionals. Regular Research, RIT.
- ☐ Hoff, B. and Fokoué, E. (2013-2014). Linear and Nonlinear Principal Component Analysis Methods for Highly Accurate Face Recognition . Regular Research, RIT.
- ☐ Jauhari, S. and Morankar, A. and Gündüz, N and Fokoué, E. (2013-2014). A Quantitative Analysis of Success Factors in the Association of Tennis Professionals. Regular Research, RIT.
- ☐ Foehrenbach, D. and Fokoué, E. (2011-2012). On the optimal prediction of team performance in the NFL. Regular Research, RIT.

COMPUTER SKILLS AND PROFICIENCY

- ☐ Computational Mathematics and Statistics : MATLAB, MAPLE, Minitab (Excellent Proficiency), Mathematica, S-Plus, SAS, R, Ox (Good knowledge)
- ☐ Programming Languages : C, C++, Visual Basic, Fortran, Matlab. HTML & Web Programming (Excellent Proficiency)
- ☐ Operating Systems : Unix, Linux, MS DOS, MS Windows 3.x, Windows 9x, IBM Mainframes (Excellent Proficiency)

DATA AND RESOURCE CONTRIBUTIONS

- ☐ Wu, Q. and Fokoué, E. (2017). Epileptic Seizure Recognition Data Set. UCI Machine Learning Repository [[Web Link]]. Irvine, CA: University of California, School of Information and Computer Science, 2017. Data here.
- ☐ Gündüz, N and Fokoué, E. (2013). Turkiye Student Evaluation Data Set. UCI Machine Learning Repository [[Web Link]]. Irvine, CA: University of California, School of Information and Computer Science, 2013. Data here.
- ☐ Jauhari, S and Morankar, A. and Fokoué, E. (2014). Professional Tennis Data. UCI Machine Learning Repository [[Web Link]]. Irvine, CA: University of California, School of Information and Computer Science, 2013. Data here.

FORMER RESEARCH STUDENTS

- ☐ Wilcox, K. Tyler, MS Thesis Advisee (2017). Currently PhD student in Quantitative Psychology at the *University of Notre Dame, South Bend, Indiana, USA*.
- ☐ Young, Jessica, MS Thesis Advisee (2017). Currently working as Data Scientist at the *University of Notre Dame, South Bend, Indiana, USA*.
- ☐ Floyd, Calvin, MS Thesis Advisee (2017). Currently working Data Scientist at the *Draft Kings, USA*.
- ☐ Ravi, Lakshmi, Research Assistant (2017). Currently working as Software Development Engineer at *Amazon Corporation, Seattle, Washington, USA*.
- ☐ Ramos, André Lobato, MS Thesis Advisee (2016). Currently as Data Scientist in *Sao Paulo, Brazil*.
- ☐ Olinto, Gabriela Guimaraes, MS Thesis Advisee (2016). Currently as Data Scientist in *Brazil*.
- ☐ Houston, Paige, MS Thesis Advisee (2016). Currently as Data Scientist at *Soleo Communications, Fairport, New York, USA*.
- ☐ Yang, Shiteng, MS Thesis Advisee (2016). Currently PhD student in Statistics at *Oklahoma State University, Stillwater, Oklahoma, USA*.
- ☐ Corsetti, Matthew, Research Assistant (2015). Currently PhD student in Statistics at the *University of Rochester, Rochester, New York, USA*.
- ☐ Bill, Jo, MS Thesis Advisee (2015). Currently working as Data Scientist at the *United States Department of Defense*.
- ☐ Yu, Xingchen, MS Thesis Advisee (2015). Currently PhD student in Statistics at the *University of California at Santa Cruz, Santa Cruz, California, USA*.
- ☐ Liu, Bohan, MS Thesis Advisee (2016). Currently PhD student in Statistics at the *University of California at Santa Cruz, Santa Cruz, California, USA*.
- ☐ Qahl, Sahal, MS Thesis Advisee (2014). Currently PhD student in Statistics at the *University of Calgary, Canada*.
- ☐ Elshrif, Mohamed, Research Assistant (2015). Currently Postdoctoral Research Fellow in *Qatar, Middle East*.
- ☐ Ma, Zichen, MS Thesis Advisee (2014). Currently PhD student in Statistics at the *University of South Carolina, Columbia, South Carolina, USA*.
- ☐ Cretekos, Ellen, MS Thesis Advisee (2013). Currently working as Statistician at the *Excellus BlueCross Blue Shield, Rochester, New York, USA*.
- ☐ Ly, Vi, Research Assistant (2015). Currently PhD student in Statistics at the *M& T Bank, Buffalo, New York, USA*.
- ☐ Ladage, Anurag, MS Thesis Advisee (2014). Currently PhD student in Industrial Engineering at the *University of Mumbai, India*.
- ☐ Jauhari, Shruti, Research Assistant (2015). Currently working as Tapeout Technology Development Software Engineer at *Intel Corporation, Hillsboro, Oregon, USA*.
- ☐ Morankar, Aniket, Research Assistant (2015). Currently working as Software Engineer at *Citrix Systems, Goleta, California, USA*.

INVITED LECTURES, INVITED COURSES, INVITED PRESENTATIONS

- ☐ Nonparametric Regression and Classification For Modern Data Scientists, *Invited Mini course* , Modern Mathematics Workshop (MMW), San Antonio, Texas, USA, October 9-11, 2018. Visit here.
- ☐ Kernel Methods for Machine Learning and Modern Data Science, *Tutorial*, IEEE DSAA 2018, 5th IEEE Data Science and Advanced Analytics International Conference, Turin, Italy, October 1-4, 2018. Visit here.
- ☐ Nonparametric Regression and Classification For Modern Data Scientists, *Tutorial*, UP-STAT 2018, 7th Annual Conference of the Upstate New York Chapters of the American Statistical Association, University of Rochester, Rochester, NY, April 20-21, 2018.
- ☐ A Brief Tour of Statistical Machine Learning: Foundational Concepts, Methods, Theory, Computation and Applications, *Five Parts Invited Mini course delivered to Graduate students, postdoctoral fellows and research scientists*, School of Mathematical Sciences, Fudan University, Shanghai, People's Republic of China, Summer 2018.
- ☐ Learning for Improved Predictive Performance in Ultra-High Dimensional Spaces ($p \ggg n$), *Invited Lecture*, *Weekly Seminar Series*, The RIT Artificial Intelligence Community, Rochester Institute of Technology, Rochester, NY, February 12, 2018.
- ☐ Random Subspace Learning for Prediction in Ultra-High Dimensional Spaces ($p \ggg n$), *Invited Lecture*, *February Fourier Talks 2018*, Norbert Wiener Center, Department of Mathematics, University of Maryland, College Park, MD, February 14-16, 2018. More here.
- ☐ Fundamentals of Statistical Machine Learning Methods for Big Data Analytics., *Visiting Professor Lecture Series*, African Institute for Mathematical Sciences (AIMS), Kigali, Rwanda, January 2018.
- ☐ Insights into Elements of Statistical Theory via fun Computational Simulations with R, *Weekly Colloquium Lecture*, African Institute for Mathematical Sciences (AIMS), Kigali, Rwanda, January 24, 2018.
- ☐ Harnessing the Blessings of Data Science through Statistical Mastery, *Invited Lecture to the Incoming Graduate SMS Class*, School of Mathematical Sciences, Rochester Institute of Technology, Rochester, August 2017.
- ☐ On the Statistical and Computational Properties of Some Emerging Cortical Learning Networks, *Invited Lecture*, School of Mathematical Sciences, Fudan University, Shanghai, People's Republic of China, August 2017.
- ☐ Introduction to Modern Research Methods for New Scientific Investigators, *Post-conference Workshop*, University of Kibungo, Kibungo, Rwanda.
- ☐ On the Statistical Building Blocks of Data Science: An Intuitive Exploratory Introduction, *Keynote Lecture*, 2017 UNIK International Conference, Rwamagana, Rwanda.
- ☐ Understanding Foundational Statistical Theory via fun Computational Exploration with R, *Lecture to Incoming Students*, Research Experience for Undergraduates (REU), Rochester Institute of Technology, Rochester, NY, *July 2017*. s
- ☐ An Intuitive Introduction to Bayesian Statistical Science, *Tutorial*, UP-STAT 2017, 6th Annual Conference of the Upstate New York Chapters of the American Statistical Association, Canisius College, Buffalo, NY, April 21-22, 2017.

- ☐ Statistical Approaches to Anomaly Detection and Intuitive visualization of Phasor Measurement Unit Data from Electric Power Systems., *Special Lecture*, UP-STAT 2017, 6th Annual Conference of the Upstate New York Chapters of the American Statistical Association, Canisius College, Buffalo, NY, April 21-22, 2017.
- ☐ Modern Statistical Machine Learning Methods for Short Fat Big Data Analytics., *Weekly Colloquium Lecture*, African Institute for Mathematical Sciences (AIMS), Kigali, Rwanda, January 2017.
- ☐ Modern Statistical Machine Learning Methods for Short Fat Big Data Analytics, *Keynote Lecture*, Delivered via Skype, SADA 2016, *SADA International Conference*, *Cotonou*, Republic of Benin, November 2016.
- ☐ Statistical Machine Learning Methods for High Dimensional Data, *Weekly Colloquium Lecture*, Laboratoire de Mathématiques de Bretagne Atlantique (LMBA), Université de Bretagne-Ouest, Brest, France, Spring 2016.
- ☐ Random Adaptive Subspace Learning for High Dimension Low Sample Size Data (n$\lll$p), *Keynote Lecture*, StatLearn 2016, *Flagship Annual Conference of the Statistical Machine Learning Society of France*, Vannes, France, April 2016.
- ☐ Understanding the Foundations of the Statistical Learning Theory through intuitive examples, *Tutorial*, UP-STAT 2016, 5th Annual Conference of the Upstate New York Chapters of the American Statistical Association, Canisius College, Buffalo, NY, April 22-23, 2016.
- ☐ Principles of Statistical Machine Learning, *Visiting Professor Lecture Series*, Laboratoire de Mathématiques de Bretagne Atlantique (LMBA), Université de Bretagne-Sud, Vannes, France, Summer 2015.
- ☐ Harnessing the Blessings of Ensemble Learning For High Dimension Low Sample Size Data, *Weekly Colloquium Lecture*, Center for Applied and Computational Mathematics (CACM), School of Mathematical Sciences, Rochester Institute of Technology, Rochester, NY, January 2015.
- ☐ Théorie et Pratique de l'Apprentissage Statistique : Enjeux et Perspectives., *Invited Lecture*, Journées de Statistiques 2014, Université Bretagne du Sud, Bretagne, France, November 2014.
- ☐ A Taxonomy of Massive Data for Optimal Predictive Machine Learning and Data Mining, *Invited Lecture*, Durham Machine Learning Conference, Durham, NC, USA, June 2014.
- ☐ Harnessing the Power of Statistical Methods in an Era of Big Data Predictive Analytics, *Invited Lecture*, Flint International Statistics Conference, Flint, MI, USA, June 2014.
- ☐ Statistical Machine Learning Methods for Mining Astronomical Data, *Invited Lecture*, The Carlson Center for Imaging Science, Rochester Institute of Technology, Rochester, NY, USA, April 2014.
- ☐ Understanding some foundational statistical theory results via fun computational exploration with R, *Invited Lecture*, UP-STAT 2014, Third Annual Conference of the Upstate New York Chapters of the American Statistical Association, Geneseo, NY, USA, April 2014.
- ☐ Modern Mathematical and Statistical Tools for Knowledge Discovery in Big Data, *Invited Lecture*, Mathematics Club, SUNY Binghamton, Binghamton, NY, USA, April 2014.
- ☐ Modern Mathematical and Statistical Tools for Knowledge Discovery in Big Data, *Invited Lecture*, Department of Mathematics, SUNY Oswego, Oswego, NY, USA, April 2014.
- ☐ Knowledge Discovery in Big Data using R, *Invited Lecture*, The College of William and Mary, Williamsburg, Virginia, USA, March 28, 2014.

- ☐ Discovering the fascinating world of big data predictive analytics and some mathematical and statistical tools for conquering it., *Invited Lecture*, Department of Mathematics, SUNY Brockport, Brockport, NY, USA, March 27, 2014.
- ☐ Discovering the fascinating world of big data predictive analytics and some mathematical and statistical tools for conquering it., *Invited Lecture*, Department of Mathematics, Buffalo State University, Buffalo, NY, USA, March 7, 2014.
- ☐ Taming Big Data with Old and New Mathematical and Statistical Tools, *Invited Lecture*, Department of Mathematics, SUNY Geneseo, October 28, 2013.
- ☐ Taming Big Data with Old and New Mathematical and Statistical Tools, *Invited Lecture*, Center for Applied and Computational Mathematics, Department of Mathematical Sciences, Rochester Institute of Technology, October 1, 2013.
- ☐ Bayesian Computation: From Foundations to Statistical Machine Learning Applications, *Invited Course/Workshop (Series of three lectures)*, International Conference/Workshop on Bayesian Theory and Applications, Banaras Hindu University, Varanasi, India, January 2013
- ☐ A New family of Sparsity Inducing Prior Distributions, *Invited Paper)*, International Conference/Workshop on Bayesian Theory and Applications, Banaras Hindu University, Varanasi, India, January 8, 2013
- ☐ On some approaches to efficient derivation of sparse representations for optimal prediction with application to classification and regression via kernel methods, *Invited Lecture*, Department of Computer Science, Rochester Institute of Technology, April 26, 2011.
- ☐ Foehrenbach, D. and Fokoué, E (2011). On the optimal prediction of team performance in the NFL, *Joint Statistical Meetings (JSM)*, *Miami Beach, Florida, USA*, August 2013
- ☐ Fokoué, E and Rollins, B. (2013). An In-Depth Statistical Approach to Deciphering the Mysterious and Elusive Predictive Power of Third-Down Conversion Percentage in American Football, *Joint Statistical Meetings (JSM)*, *Montreal, Quebec, Canada*, August 2013
- ☐ Fokoué, E (2009). Efficient Derivation of Sparse Representations in Radial Basis Function Regression, *59th Conference of the International Statistical Institute*, *Durban, South Africa*, August 2009.
- ☐ Statistical Machine Learning with Applications to Bioinformatics and Computer Vision, *Invited Speaker*, Pattern Recognition Association of South Africa (PRASA), 18th conference of the PRASA, Durban, Nov 2007.
- ☐ Aspects of the Theory of Statistical Function Estimation and Pattern Recognition, *Visiting Professor Lecture*, People's Friendship University of Russia,Moscow, Russia (Nov 2007).
- ☐ Bayesian Optimal Prediction via the Selection of Prevalent Atoms, *Invited Lecture*, University of Michigan, Flint, Fall 2007.

CONFERENCES AND WORKSHOPS

- ☐ Fokoué, E (2014). Théorie et Pratique de l'Apprentissage Statistique : Enjeux et Perspectives., *Journées de Statistiques 2014, Université Bretagne du Sud*, Bretagne, France, November 20-22, 2014.
- ☐ Fokoué, E (2014). Elements of Bayesian Analysis for Big Data Predictive Analytics, *Durham Machine Learning Conference*, Durham, NC, USA, June 9-11, 2014.

- ☐ Fokoué, E (2011). Naturally Efficient Sparsity Tuner for Optimal Predictive Kernel Regression and Beyond, *Joint Statistical Meetings, JSM 2011*, Miami Beach, Florida, USA July 30-August 4, 2011.
- ☐ Fokoué, E (2009). Efficient Derivation of Sparse Representations in Radial Basis Function Regression, *59th Conference of the International Statistical Institute*, *Durban, South Africa*, August 2009.
- ☐ Fokoué, E (2009). Variational Mean Field Approximation for Multitarget Tracking, *Joint Statistical Meetings (JSM)*, *Washington, DC*, August 4th, 2009.
- ☐ Fokoué, E (2008). Latent Variable Models, *Joint Statistical Meetings (JSM)*, *Salt Lake City, Utah*, July 27th-July 31st, 2008.
- ☐ Technical Highlights of the Large p small n working group, *Data Mining and Machine Learning Closing Workshop*, Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, USA (2004).
- ☐ Problem list presentation for the Support Vector Machines working group, *Data Mining and Machine Learning Closing Workshop*, Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, USA (2004).
- ☐ Bayesian Analysis of SVM and SVM-like techniques: The Present and Some Ideas for the Future, *Data Mining and Machine Learning Mid year workshop*, Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, USA (2004).
- ☐ Variational Mean Field for Gaussian Processes, *Postdoctoral Seminar Series*, Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, USA, Nov 2003.
- ☐ Analysis of Latent Structures with Outcomes of different types, Joint Statistical Meetings, San Francisco, USA (2003).
- ☐ SAMSI Stochastic Computation Workshop (2002), Research Triangle Park, North Carolina, USA. Poster presented on MCMC Methods for Factor Analytic Models.
- ☐ First Cape Cod Conference on Monte Carlo Methods (2002), Cape Cod, Massachussetts, USA. Poster presented on MCMC Methods for Factor Analytic Models.
- ☐ Nonlinear Estimation and Classification Workshop (2001), Mathematical Sciences Research Institute, Berkeley, California, USA. Presentation given on Aspects of stochastic simulation based inference for some mixtures of latent structures.
- ☐ Spatial and Computational Statistics Conference (2000), Ambleside, England, United Kingdom, September 2000. Poster presented on Mixtures of Factor Analysers with fixed observed covariates. An EM algorithm treatment.
- ☐ Computational Statistics Conference (2000), Utrecht , The Netherlands, August 21-25, 2000. Presentation given on A Markov Chain Monte Carlo (MCMC) Approach to the Bayesian Analysis of Mixtures of Factor Analysers.
- ☐ Research Students Conference in Probability and Statistics (2000), Cardiff, Wales, United Kingdom, April 11-14, 2000. Presentation given on "Exploration of the Mixture of Factor Analysers Model".

Ask and it will be given to you; seek and you will find; knock and the door will be opened to you.
Matthew 7:7.

COURSES TAUGHT

- ☐ Principles of Statistical Mining (STAT 846) - (I developed the curriculum)
- ☐ Regression Analysis I (STAT 841)
- ☐ Regression Analysis II (STAT 842)
- ☐ Time Series Analysis and Forecasting (STAT 773) - (I developed the curriculum)
- ☐ Principles of Statistical Mining (STAT 747) - (I developed the curriculum)
- ☐ Applied Multivariate Statistical Analysis (STAT 756)
- ☐ Fundamentals of Statistical Theory (STAT 731) - (I developed the curriculum)
- ☐ Statistical Theory I (STAT 721)
- ☐ Statistical Theory II (STAT 722)
- ☐ Regression Analysis (STAT 741)
- ☐ Nonparametric Statistics and Bootstrapping (STAT 753)
- ☐ Principles of Applied Statistics (STAT 714)
- ☐ Capstone for MS in Applied Statistics (STAT 795)
- ☐ Statistics for Data Mining (STAT 702)
- ☐ Computational Statistics (Special Topics: STAT 738) - (I developed the curriculum)
- ☐ Probability and Statistics for Engineers and Scientists I (STAT 361)
- ☐ Probability and Statistics for Engineers and Scientists II (STAT 362)
- ☐ Probability and Statistics for Engineers and Scientists I (STAT 251)
- ☐ Probability and Statistics for Engineers and Scientists II (STAT 252)
- ☐ Statistics for Engineers (STAT 315)

COMMITTEE ACTIVITIES

- ☐ Member of the SMS Strategic Planning Committee.
- ☐ Member of the Graduate Statistics Admissions Committee.
- ☐ Chair of the Statistics Tenure Track Search Committee (Spring 2017).
- ☐ Chair of the Statistics Tenure Track Search Committee (Fall 2018).
- ☐ Chair of the Statistics Tenure Track Search Committee (Spring 2018).
- ☐ Member of the SMS Graduate Committee.
- ☐ Member of the RIT Global TaskForce Committee.
- ☐ Member of the Graduate Statistics Scheduling Committee.
- ☐ Member of the College of Science Statistics Committee.
- ☐ Member of the Search Committee for hiring the Head of Industrial Engineering Department.
- ☐ Member of the Search Committee for hiring Tenure Track Imaging Science Faculty.
- ☐ Member of the Campus-wide (College of Science and College of Computing and College of Engineering committee for designing the MS in Data Science.