

# CURRICULUM VITA

**Zhide Fang, PhD**

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**Current Titles:** Professor and Director of Biostatistics  
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## ***Background***

EDUCATION      PhD in Statistics, August 1999  
 University of Alberta, Canada

MS in Statistics, June 1989  
 Huazhong Normal University, China

BS in Mathematics, June 1986  
 Huazhong Normal University, China

## ACADEMIC EXPERIENCE

Director, 08/2015 –  
 Interim Director, 10/2013 – 07/2015  
 Graduate Coordinator, 11/2008 ~ 07/2015  
 Biostatistics Program, School of Public Health, LSUHSC – New Orleans

Professor (with tenure), 07/2014 –  
 Associate Professor (with tenure), 08/2008 – 06/2014  
 Biostatistics Program, School of Public Health, LSUHSC – New Orleans

Professor (conjoint), 07/2015 –  
 Department of Genetics, School of Medicine, LSUHSC – New Orleans

Associate Professor (with tenure), 08/2006 – 08/2008  
 Assistant Professor (tenure track), 08/2000 – 08/2006  
 Visiting Assistant Professor, 08/1999 – 06/2000  
 Department of Mathematics, University of New Orleans

Teaching / Research Assistant, 09/1994 – 08/1999  
University of Alberta, Canada

Assistant Professor / Lecturer, 09/1989—08/1994  
China University of Geosciences, Wuhan, China

## MAJOR AREAS OF RESEARCH INTEREST

- a. Biostatistics/Bioinformatics (Cancer genomics, Statistical analysis of Microarray gene expressions, Next-generation sequencing data, DNA methylation, micro RNA, Nucleosome mapping, Gene Set / Pathway Analysis, DNA copy number variation, Metagenomics).
- b. Variable selection algorithms
- c. Big data algorithms
- d. Designs of Experiments, Dose-response modelling, Wavelet modelling
- e. (Multi-state) Reliability analysis, Survival analysis
- f. The theory of canonical moments, continued fractions with applications in Statistics.

## PROFESSIONAL MEMBERSHIPS

- |                |   |
|----------------|---|
| a. 1999 – 2006 | Member, Statistical Society of Canada                   |
| b. 2009 – 2010 | Member, International Chinese Statistical Association.  |
| c. 2011 – 2012 | Member, International Society for Computational Biology |
| d. 2002 –      | Member, American Statistical Association                |
| e. 2002 –      | Member, LA Chapter of American Statistical Association  |

## ***Scholarly and Creative Productivity***

### 1. Publications

#### A. Patents

- 1) US20180372763A1 (Pending). Methods of detecting, diagnosing, and treating carotid plaque vulnerability. Inventor: HA Bazan, Y Lu, S Hong, **Z Fang**, B Jun, TC Woods.

#### B. Peer-reviewed publications

- **Methodology papers (+ means graduate student)**

- 1) S. Yang<sup>+</sup>, K. Zhang, **Zhide Fang**<sup>\*</sup> (2020). Robust RNA-seq data analysis using an integrated method of ROC curve and Kolmogorov–Smirnov test. *Communications in Statistics – Simulation and Computation*, doi: <https://doi.org/10.1080/03610918.2020.1837165>. (\*Corresponding author)

- 2) H. Lin, C.Y. Callan, **Zhide Fang**, H.Y. Tung, J.Y. Park (2019). Interactions of PVT1 and CASC11 on Prostate Cancer Risk in African Americans. *Cancer Epidemiology, Biomarkers & Prevention*, June 1, 2019, 28(6): 1067 – 1075. DOI: 10.1158/1055-9965.EPI-18-1092. PMID: 30914434
- 3) Z. Chen, **Zhide Fang**, J. Zhao, W. Fan, A. Edwards, K. Zhang (2018). Online Density Estimation over Streaming Data: A Local Adaptive Solution. 2018 IEEE International Conference on Big Data, DOI: 10.1109/BigData.2018.8621923. (Conference location: Seattle, USA, Dec. 10-13. *Accepted regular paper (18.9% accepted rate)*).
- 4) R. Du<sup>+</sup>, L. An, **Zhide Fang**<sup>\*</sup> (2018). Performance evaluation of normalization approaches for metagenomic compositional data on differential abundance analysis. In: *Frontiers of Biostatistics and Bioinformatics* (eds: Y. Zhang and D.G. Chen), 329 – 344. Springer. (\*Corresponding author)
- 5) Y. Zhai<sup>+</sup>, **Zhide Fang**<sup>\*</sup> (2018). Locally Optimal Designs for Some Binary Dose-Response Models. *Canadian Journal of Statistics*, 46(2): 336-354. PMID: 30287980; PMCID: PMC6167062. (\*corresponding author)
- 6) R. Du<sup>+</sup>, **Zhide Fang**<sup>\*</sup> (2018). Statistical correction for functional metagenomic profiling of a microbial community with short NGS reads. *Journal of Applied Statistics*, 45(14): 2521 - 2535. PMID: 30505061; PMCID: PMC6261491. (\*corresponding author)
- 7) Y. Zhai<sup>+</sup>, **Zhide Fang**<sup>\*</sup> (2018). Locally Optimal Designs for Some Dose Response Models with Continuous Endpoints. *Communications in Statistics – Theory and Methods*, 47(16): 3803-3819. PMID: 30250356; PMCID: PMC6150483 (\*corresponding author)
- 8) Z. Chen, **Zhide Fang**, W. Fan, A. Edwards, K. Zhang (2017). CSTG: An Effective Framework for Cost-sensitive Sparse Online Learning. *SIAM Rev Soc Ind Appl Math*. 2017 Apr; 2017: 759 – 767. PMID: 29861512; PMCID: PMC5978435.
- 9) J. Maronge<sup>+</sup>, Y. Zhai, D. Wiens, **Zhide Fang**<sup>\*</sup> (2017). Optimal Designs for Spline Wavelet Regression Models. *Journal of Statistical Planning and Inference*, 184: 94 - 104. PMID: 29033492; PMCID: PMC5638501. (\*Corresponding author)
- 10) S. Yang<sup>+</sup>, **Zhide Fang**<sup>\*</sup> (2017). Beta approximation of ratio distribution and its application to next generation sequencing read counts. *Journal of Applied Statistics*, 44(1): 57 - 70. PMID: 29456282; PMCID: PMC5812702. (\*Corresponding author)
- 11) H. Lin, D. Chen, ..., **Zhide Fang**, ..., J. Park (2017). SNP Interaction Pattern Identifier (SIPI): An Intensive Search for SNP-SNP Interaction Patterns. *Bioinformatics*, 33(6): 822 - 833. PubMed PMID: 28039167; PubMed Central PMCID: PMC5860469.

- 12) S. Yang<sup>+</sup>, D. Mercante, K. Zhang, **Zhide Fang**\* (2016). An Integrated Approach for RNA-seq Data Normalization. *Cancer Informatics*, 15: 129 – 141. PMID: 27385909; PMCID: PMC4924883. (\*Corresponding author)
- 13) W. Zhang, A. Edwards, **Zhide Fang**, E. Flemington, K. Zhang (2016). Integrative Genomics and Transcriptomics Analysis Reveals Potential Mechanisms for Favorable Prognosis of Patients with HPV-Positive Head and Neck Carcinomas. *Scientific Reports*, 6: 24927.
- 14) R. Du<sup>+</sup>, D. Mercante, L. An, **Zhide Fang**\* (2014). A statistical approach to correcting cross-annotations in a metagenomic functional profile generated by short reads. *Journal of Biometrics & Biostatistics*, 5: 208. (\*Corresponding author)
- 15) S. Yang<sup>+</sup>, X. Cui, **Zhide Fang**\* (2014). BCRgt: A Bayesian Cluster Regression based genotyping algorithm for samples with Copy Number Alterations. *BMC Bioinformatics*, 2014, 15: 74. (\*Corresponding author)
- 16) R. Du<sup>+</sup>, **Zhide Fang**\* (2014). Analysis of metagenomic data. In: Statistical Analysis of Next Generation Sequencing Data, Daniel Nettleton and Somnath Datta (eds), Springer, 335-353. (\*Corresponding author)
- 17) W. Zhang, A. Edwards, **Zhide Fang**, P. Deininger and K. Zhang (2013). Inferring the expression variability of human transposable element-derived exons by linear model analysis of deep RNA sequencing data. *BMC Genomics*, 2013, 14: 584.
- 18) R. Du<sup>+</sup>, D. Mercante, **Zhide Fang**\* (2013). An Artificial Functional Family Filter in Homolog Searching in Next-generation Sequencing Metagenomics. *PLoS ONE*, 8(3): e58669. (\*Corresponding author)
- 19) **Zhide Fang**, R Du, A Edwards, E Flemington, K Zhang (2013). The sequence structures of human microRNA molecules and their implications. *PLoS ONE*, 8(1): e54215.
- 20) S Yang<sup>+</sup>, S Pounds, K Zhang, **Zhide Fang**\* (2013). PAIR: Paired Allelic log-Intensity-Ratio based normalization method for SNP-CGH arrays. *Bioinformatics*, 29(3): 299-307. (\*Corresponding author)
- 21) S. Zhang, **Zhide Fang**, G. Liu (2013). Characterization of admissible linear estimators in multivariate linear model with respect to inequality constraints under matrix loss function. *Communication in Statistics - Theory and Methods*, 42(15): 2837 - 2850.
- 22) **Zhide Fang**\*, JA Martin, Z Wang (2012). Statistical methods for identifying differentially expressed genes in RNA-Seq experiments. *Cell & Bioscience*, 2012, 2:26. (\*Corresponding author)
- 23) Q Yu, B Li, **Zhide Fang**, L Peng (2012). Model Guided Adaptive Design and Analysis in Computer Experiment. *Statistical Analysis and Data mining*, 5(5): 399 - 409.

- 24) **Zhide Fang**, R Du, X Cui (2012). Uniform Approximation Is More Appropriate for Wilcoxon Rank-Sum Test in Gene Set Analysis. *PLoS ONE*, 7(2): e31505.
- 25) **Zhide Fang**, X Cui (2011). Design and validation issues in next generation sequencing experiments. *Briefing in bioinformatics*, 12(3): 280 – 287.
- 26) L Gao\*, **Zhide Fang**\*, K Zhang, D Zhi, X Cui (2011). Length Bias Correction for RNA-seq data in gene set analysis. *Bioinformatics*, 27(5), 662 -- 669. (**\*Co-first author**)
- 27) J Martin, V Bruno, **Zhide Fang**, X Meng, M Blow, T Zhang, G Sherlock, M Snyder, Z Wang (2010). Rnnotator: an automated de novo transcriptome assembly pipeline from stranded RNA-Seq reads. *BMC Genomics* 2010, 11:663.
- 28) S Zhang, **Zhide Fang**, H Qin, L Han (2011). Characterization of admissible linear estimators in the growth curve model with respect to inequality constraints. *Journal of Korean Statistical Association*, 40(2), 173 – 179.
- 29) **Zhide Fang**, X. Li, L. Xu (2010). A Multivariate method for normalization in Affymetrix Oligonucleotide Microarray Experiments. *Journal of Data Science*, Vol. 8, No. 4, 505 -- 519.
- 30) Q. Yu, B. Li, **Zhide Fang**, L. Peng (2010). An Adaptive Sampling Scheme Guided by BART – With an Application to Predict Processor Performance. *Canadian Journal of Statistics*, Vol. 38, No. 1, 136 -- 152.
- 31) **Zhide Fang** (2006). Some Robust Designs for Polynomial Regression Models. *Canadian Journal of Statistics*, Vol. 34, No. 4, 623 -- 638.
- 32) **Zhide Fang**, DP Wiens, Z Wu (2006). Locally D-Optimal Designs for Multi-Stage Models and Heteroscedastic Polynomial Regression Models. *Journal of Statistical Planning and Inference*, Vol. 136, No. 11, 4059 – 4070
- 33) **Zhide Fang**, DP Wiens (2004). Bayesian minimally supported D-optimal designs for an exponential regression models. *Communications in Statistics - Theory and Methods*, Vol. 33, No. 5, 1187 -- 1204,
- 34) **Zhide Fang** (2003). Extrapolation Designs With Constraints. *Canadian Journal of Statistics*, Vol. 31, No. 4, 457 - 468.
- 35) **Zhide Fang**, DP Wiens (2003). Robust Regression Designs for Approximate Polynomial Model. *Journal of Statistical Planning and Inference*, Vol. 117, No. 4, 305 - 321.
- 36) M. J. Zuo, **Zhide Fang**, J. Huang, X. Xu (2003). Performance Evaluation of Decreasing Multi-State Consecutive k-out-of-n: G Systems, *International Journal of Reliability, Quality and Safety Engineering*, Vol. 10, No. 3, 345 -- 358.

- 37) **Zhide Fang** (2003). D-Optimal Designs for Weighted Polynomial Regression. *Statistics & Probability Letters*, Vol. 63, No. 2, 205 -- 213.
- 38) J Huang, MJ Zuo, **Zhide Fang** (2003). Multi - State Consecutive k - out - of -n Systems, *IIE Transactions on Quality and Reliability Engineering*, Vol. 35, 527 -- 534.
- 39) **Zhide Fang** (2002). D-Optimal Designs for Polynomial Regression Through Origin, *Statistics & Probability Letters*, Vol 57, No. 4, 343 -- 351.
- 40) **Zhide Fang**, DP.Wiens (2000). Integer-valued, minimax robust designs for estimation and extrapolation in heteroscedastic, approximately linear models, *Journal of American Statistical Association*, Vol. 95, No. 451, 807 -- 818.
- 41) **Zhide Fang** (2000). Robust extrapolation designs for biased polynomial models. *Journal of Statistical Planning and Inference*, 87(1), 135 -- 147.
- 42) **Zhide Fang**, DP Wiens (1999). Robust extrapolation designs and weights for biased regression models with heteroscedastic errors. *Canadian Journal of Statistics*, Vol 27, No 4, 751 -- 770.

- **Application papers**

- 43) M-A.I. Kautzmann, W.C. Gordon, B. Jun, K.V. Do, B.J. Matherne, **Zhide Fang**, N.G. Bazan (2020). Membrane-type frizzled-related protein regulates lipidome and transcription for photoreceptor function. *The FASEB Journal*, 01/2020, **34(1)**: 912 – 929. PMID: 31914617, PMCID: PMC6956729. doi: <https://doi.org/10.1096/fj.201902359R>.
- 44) M. Heath, R. Buckley, Z. Gerber, P. Davis, L. Linneman, Q. Gong, B. Barkemeyer, **Zhide Fang**, M. Good, D. Fenn, S. Kim (2019). Association of intestinal alkaline phosphatase with necrotizing enterocolitis among premature infants. *The Journal of American Medical Association (JAMA) Network Open*, 11/2019; 2(11): e1914996. PMID: 31702803, PMCID: PMC6902776. doi:10.1001/jamanetworkopen.2019.14996.
- 45) S. Sinha, H. Brown, J. Tabak, **Zhide Fang**, M. Couetoux du Tertre, S. McNamara, K. Gambaro, G. Batist, JF. Buell (2019). Multiplexed real-time polymerase chain reaction cell-free DNA assay as a potential method to monitor stage IV colorectal cancer. *Surgery*, October 2019, **166 (4)**: 534 - 539. PMID 31378479. DOI: <https://doi.org/10.1016/j.surg.2019.06.004>
- 46) A.M. DiGiorgio, P.V. Mummaneni, J.L Fisher, A.G. Podet, C.L. Crutcher II, M.S. Virk, **Zhide Fang**, J.D. Wilson, G.C. Tender, F. Culicchia (2019). Change in policy allowing overlapping surgery decreases length of stay in an academic, safety- net

hospital. *Operative Neurosurgery*, 2019 Mar 28; doi: 10.1093/ons/opz009. [Epub ahead of print] PubMed PMID: 30919890.

- 47) W.J. Lukiw, T.P.A. Kruck, M.E. Percy, A. I. Pogue, P. N. Alexandrov, W. J. Walsh, N. M. Sharfman, V. R. Jaber, Y. Zhao, W. Li, C. Bergeron, F. Culicchia, **Zhide Fang**, D. R.C. McLachla (2019). Aluminum in neurological disease – a 36 year multicenter study. *Journal of Alzheimers Disease & Parkinsonism*. 2019, 8(6). doi: 10.4172/2161-0460.1000457. Epub 2018 Nov 29. PubMed PMID: 31179161; PubMed Central PMCID: PMC6550484.
- 48) TF Ferguson, X Wang, L Dyer, S Straif-Bourgeois, D Rojas, P Maloney, Zhide Fang, L Besch (2018). Increasing CVD and CVD risk among PLWHA in Louisiana 2002-2012. *Circulation*, 2018, 137(Suppl\_1): AP187.
- 49) H. Bazan, Y. Lu, B. Jun, **Zhide Fang**, T.C. Woods, S. Hong (2017). Circulating inflammation-resolving lipid mediators RvD1 and DHA are decreased in patients with acutely symptomatic carotid disease. *Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA)*, **125**: 43 – 47. PMID: 28987721; PMCID: PMC5909403
- 50) C.D. Kim, R.E. Reed, M.A. Juncker, **Zhide Fang**, S.D. Desai (2017). Evidence for the Dereglulation of Protein Turnover Pathways in Atm-deficient Mouse Cerebellum: An Organotypic Study. *Journal of Neuropathology and Experimental Neurology*, **76**(7): 578 – 584. PMID: 28535250.
- 51) A. E. Musto, R. F. Rosencrans, C. P. Walker, S. Bhattacharjee, **Zhide Fang**, C. M. Raulji, W. C. Gordon, N. G. Bazan (2016). Corrigendum: Dysfunctional epileptic neuronal circuits and dysmorphic dendritic spines are mitigated by platelet-activating factor receptor antagonism. *Scientific Reports*, **6**: 32253.
- 52) L. Peres, E. Trapido, A. Rung, D. Harrington, E. Oral, **Zhide Fang**, E. Fonham, E. Peters (2016). The Deepwater Horizon Oil Spill and Physical Health among Adult Women in Southern Louisiana: The Women and Their Children’s Health (WaTCH) Study. *Environmental Health Perspectives*, **124**(8): 1208 - 1213. PMID: 26794669; PMCID: PMC4977051.
- 53) A. E. Musto, R. F. Rosencrans, C. P. Walker, S. Bhattacharjee, **Zhide Fang**, C. M. Raulji, W. C. Gordon, N. G. Bazan (2016). Dysfunctional epileptic neuronal circuits and dysmorphic dendritic spines are mitigated by platelet-activating factor receptor antagonism. *Scientific Reports*, **6**: 30289. PMID: 27444269; PMCID: PMC4957208
- 54) T. Henagan, B. Stefanska, **Zhide Fang**, A. Nevard, J. Ye, N. Lenard, P. Devarshi (2015). Sodium butyrate epigenetically modulates high fat diet-induced skeletal muscle mitochondrial adaptation, obesity and insulin resistance through nucleosome positioning. *British Journal of Pharmacology*, **172**(11): 2782-2798.
- 55) L. Fu, Z. Shi, G. Luo, W.Tu, X. Wang, **Zhide Fang**, X. Li (2014). Multiple microRNAs regulate human FOXP2 gene expression by targeting sequences in its 3’ untranslated region. *Molecular Brain*, 2014, **7**: 71.

- 56) Z. Elmageed, Y. Yang, R. Thomas, K. Moparty, M. Ranjan, D. Mondal, K. Moroz, **Zhide Fang**, B. Rezk, S. Sikka<sup>1</sup>, O. Sartor, A. Abdel-Mageed (2014). Neoplastic Reprogramming of Patient-Derived Adipose Stem Cells by Prostate Cancer Cell-Associated Exosomes. *Stem Cells*, 32(4): 983-997.
- 57) Z. Shi, G. Luo, L. Fu, **Zhide Fang**, X. Wang, X. Li (2013). miR-9 and miR-140-5p Target FoxP2 and Are Regulated by the Social Context of Song Behavior in Zebra Finches. *Journal of Neuroscience*, 33(42): 16510-16521.
- 58) Z. Elmageed, K. Moroz, S. K. Srivastav, **Zhide Fang**, B. Crawford, K. Moparty, R. Thomas and A. B. Abdel-Mageed (2013). High Circulating Estrogens and Selective Expression of ER $\beta$  in Prostate Tumors of African Americans: Implications for Racial Disparity of Prostate Cancer. *Carcinogenesis*, 34(9): 2017-2023.
- 59) C Conrad, J Zhu, C Conrad, D Schoenfeld, **Zhide Fang**, M Ingelsson S Stamm, G Church, B Hyman (2007). Single Molecule Exon Profiling of Tau Gene Expression in Alzheimer's Disease. *Journal of Neurochemistry*, Vol. 103, Issue 3, 1228 --1236.

### C. Other Publications

[1] Abstracts published in journals

- 1) J. A. David, C. Lieux, J. Grodsky, J. Nussdorf, A. Shi, M. Morgan **Zhide Fang**, L. Al-Dujaili (2020). Multisurgeon, multisite retrospective study of the influence of multiple variables on outcomes with micropulse transscleral diode laser cyclophotocoagulation. *Investigative ophthalmology & visual science*, June 2020, Vol. 61, Issue 7, 5237.
- 2) C. M. Or, J. R. Gallagher, **Zhide Fang**, M. Reinoso (2020). The Use of Topical Steroids and NSAIDs in the treatment of Diabetic Macular Edema. *Investigative ophthalmology & visual science*, June 2020, Vol. 61, Issue 7, 4884.
- 3) R. BuckleySearch, M. Heath, Z. Gerber, P. Davis, L. Linneman, Q. Gong, B. Barkemeyer, **Zhide Fang**, M. Good, D. Penn, S. Kim (2020). Intestinal alkaline phosphatase is a diagnostic biomarker for necrotizing enterocolitis in preterm infants. *FASEB Journal*, April 2020, Vol. 34, Issue S1. Biochemistry and Molecular Biology. Dui: <https://doi.org/10.1096/fasebj.2020.34.s1.08937>.

[2] Posters

- 1) RT Davis, **Zhide Fang**, M Bernal (2020). Examination of eyelid culture differences between patients with keratoconus and controls with signs and symptoms of blepharitis. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.



- 2) B Lee, E Washington, **Zhide Fang**, C Leuba, J Nussdorf (2020). Baerbeldt 250 mm2 Glaucoma shunt outcomes in southeast Louisiana. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 3) JRE Samaha, **Zhide Fang**, C Pritchard, G Ellis (2020). Accommodative Esotropia greater at near fixation: can a patch test differentiate a subtype of those with deviation greater and near? LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 4) MP Fernandez, **Zhide Fang**, JS Weiss (2020). Evaluation of the significance of version impairment as a factor for falls in elderly patients presenting to the emergence department. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 5) C Or, **Zhide Fang**, J Benevento (2020). Comparison between automatic and manual segmentation of healthy retinas using optical coherence tomography. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 6) W Tucker, M Evans, **Zhide Fang**, J Weiss (2020). Utility of ophthalmic screening in fungemia patients. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 7) L A T Cobian, Zhide Fang, GD Fivgas (2020). Association between retina defects and epiretinal membrane development. LSUHSC Ophthalmology Resident Research Day and the Henry J. L. Van Dyk memorial lecture, 5/30/2020.
- 8) J David, J Grodsky, C Lieux, J Nussdorf, Shi, M Morgan, **Zhide Fang**, L Al-Dujaili (2019). Evaluating the Influence of Multiple Variables on Outcomes with Micropulse Transscleral Diode Laser Cyclophotocoagulation. LSUHSC Ophthalmology Resident Research Day, 5/15/2019.
- 9) J. Reeves Ellis Samaha, C Pritchard, **Zhide Fang**, G Ellis (2019). Accommodative Esotropia greater at near fixation: Can a patch test differentiate a subtype of those with deviation greater at near? LSUHSC Ophthalmology Resident Research Day, 5/15/2019.
- 10) M Hartma, **Zhide Fang**, M Doss, M Reinoso (2019). A prospective study of perceived indirect light intensity between fellow eyes during dilated funduscopy. LSUHSC Ophthalmology Resident Research Day, 5/15/2019.
- 11) R Buckley, M Health, Z Gerber, P Davis, L Linneman, M Good, **Zhide Fang**, B Barkemeyer, D Penn, S Kim (2018). Intestinal Alkaline Phosphatase as a diagnostic biomarker for necrotizing enterocolitis. LSUHSC Graduate Research Day, 11/2/2018.

- 12) CD Kim, RE Reed, MA Junker, **Zhide Fang**, SD Desai (2018). Evidence for the Deregulation of Protein Turnover Pathways in *Atm*-Deficient Mouse Cerebellum: An Organotypic Study. 62<sup>nd</sup> Biophysical Society Meeting, San Francisco, USA, 2/2018.
- 13) J Gallagher, JP Lockett, **Zhide Fang**, JS Weiss, M Reinoso (2018). Diabetic Retinopathy: Trends of Posterior Pole and Peripheral Involvement. ARVO Annual Meeting 2018, Honolulu, HI, USA, 4/29 – 5/3/2018.
- 14) Me'ja Day, Tristan Dao, **Zhide Fang**, Aravinda Rao (2018). Evaluation of the telemedicine program for detection of diabetic retinopathy at LSU Eye Center in Baton Rouge, Louisiana. LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 15) Shalimar Small, **Zhide Fang**, Jayne S. Weiss, Maria Reinoso (2018). *Effect of residency program-instituted academic curriculum on Ophthalmic Knowledge Assessment Program (OKAP) scores.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 16) Amar Patel, **Zhide Fang**, Hayley Hilton, Aravinda Rao (2018). *A comparative study of surgical outcomes for diabetic tractional retinal detachment repairs with hemoglobin A1C at or above 9, versus below 9.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 17) Matt Bolton, Trevor Flynn, Andrea Linscott, **Zhide Fang**, Yasmine Quilichini, Caroline Connell, Anthony Mazzulla (2018). *Concentrating on Antisepsis: 5% versus 10% povidone-iodine prior to intravitreal injection.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 18) Jennifer Gallagher, John P. Lockett, **Zhide Fang**, Maria Reinoso (2018). *Diabetic Retinopathy: Trends of posterior pole and peripheral involvement.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 19) Jeff Vinet, Tristan Dao, **Zhide Fang**, Maria Bernal (2018). *Antibiotic resistance profiles in patients with Staphylococcus Aureus blepharoconjunctivitis.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 20) James David, Jonathan Nussdorf, Anna Shi, Michael Morgan, **Zhide Fang**, and Lena Al-Dujaili *The influence of multiple variables on outcomes with micropulse transscleral diode laser cyclophotocoagulation.* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.
- 21) J. Reeves Ellis Samaha, Zhide Fang, Cindy Pritchard, George S. Ellis (2018). *Surgery or bifocals for esotropia greater at near fixation: Can a patch test determine best management strategy?* LSUHSC Ophthalmology Resident Research Day, 6/15/2018.

- 22) Y. Zhai, Zhide Fang (2016). Optimal designs for quantile regression models. LSUHSC School of Graduate Studies Research Day, 11/08/2016.

[3] Proceeding

- 1) SK Sinha, H Brown, Zhide Fang, M Couetoux, K Gambaro, G Batist (2018). A multiplexed RE-qPCR cell-free DNA assay to assess response and resistance to cancer therapy [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2018; 2018 Apr 14-18; Chicago, IL. Philadelphia (PA): AACR; Cancer Res 2018; 78(13 Supl): Abstract nr 5575.
- 2) K Robert, **Zhide Fang**, T Solanky (2007). Textile Fiber-length Properties of Seed Cotton – Part 1: Textile Mathematical Properties of the Normal Length Distribution. Proceeding of 2007 Beltwide Cotton Conference (New Orleans), 2140 - 2145.
- 3) L Xu, **Zhide Fang**, G Maresh, S Pincus (2005). Multiple test correction in statistical filter: A pitfall in microarray data analysis. *Selected abstract and Poster in Affymetrix Annual Meeting, Boston, USA, May 24 - 25, 2005.*

## 2. Presentations

- 1) *Normalization in Metagenomics*. 2019 Lloyd Roeling Mathematics Conference: Statistics, University of Louisiana at Lafayette, LA, 10/25-26/2019.
- 2) *Multiplexed Re-qPCR Cell-Free DNA Assay to Assess Metastatic Colorectal Cancer to Therapy*. The Central Surgical Association 76<sup>th</sup> Annual Meeting, March 3 – 7, 2019, Palm Harbor, Florida (Authors: JF Buell (presenter), S Sinha, H Brown, J. Tabak, Zhide Fang, G Batist, M Couetoux du Tertre, K Kambaro).
- 3) *Sterility of Expired Intraocular Lenses*. LSUHSC Ophthalmology Resident Research Day, 5/15/2019. (Authors: J Vinet (presenter), Zhide Fang, J. Sturtevant).
- 4) *The Use of Topical Steroids and NSAIDs in the treatment of Diabetic Macular Edema*. LSUHSC Ophthalmology Resident Research Day, 5/15/2019. (Authors: J. Gallagher (presenter), A. Pham, Zhide Fang, M. Reinoso).
- 5) *Early and Late Adulthood Risk Factors in the Development of Carotid Plaque: The Bogalusa Heart Study*. The Orleans, USA. (Authors: R. Trivedi (presenter), X. Wang, J. Xu, Zhide Fang, F. Smart, G. Berenson)
- 6) *Big streaming data and learning* Southern Society for Clinical Investigation Meeting, February 21 – 23, 2019, New *methods*, School of Economics and Management, China University of Geosciences at Wuhan, January 4, 2019.
- 7) *Normalization in Metagenomics*, School of Mathematics and Physics, China University of Geosciences at Wuhan, January 4, 2019.
- 8) *Normalization in Metagenomics*, School of Science, Wuhan University of Technology, January 3, 2019.
- 9) *Normalization in Metagenomics*. School of Mathematics and Statistics, Huazhong Normal University, January 2, 2019.

- 10) *Big streaming data and learning methods*. School of Computer Science, Qilu University of Technology, December 28, 2018.
- 11) *An effective learning algorithm for big streaming data*. School of Mathematics and Statistics, Wuhan University, December 29, 2017.
- 12) *An effective learning algorithm for big streaming data*. School of Mathematics and Statistics, Huazhong University of Science and Technology, December 28, 2017.
- 13) *An effective learning algorithm for big streaming data*. School of Science, Wuhan University of Technology, December 28, 2017.
- 14) *An effective learning algorithm for big streaming data*. School of Mathematics and Statistics, Huazhong Normal University, December 27, 2017.
- 15) *An effective learning algorithm for big streaming data*. School of Mathematical Sciences, Peking University, December 26, 2017.
- 16) *Cross-annotation in NGS metagenomic functional profiling and correction*. School of Science, Beijing Jiaotong University, 12/25/2017
- 17) *An effective learning algorithm for big streaming data*. Biostatistics, School of Public Health, LSUHSC-NO, 11/27/2017
- 18) *Cross-annotation in NGS metagenomic functional profiling and correction*. BIRS meeting: Robustness Theory and Methodology: Recent Advances and Future Directions, 09/03/2016.
- 19) *Optimal designs for wavelet regression models*. ASA, Spring Research Meeting, Chicago, May 27, 2016
- 20) *A statistical method to correcting cross-annotations in NGS metagenomic functional profiling*. 2015 Lloyd Roeling Mathematics Conference: Statistics, University of Louisiana at Lafayette, LA, 11/21/2015.
- 21) *Functional profiling of a metagenome: removal of artificial families*. LBRN 6th workshop on computational biology, New Orleans, LA, 02/22/2013.
- 22) *Statistical tests in Gene Set Analysis*. Louisiana Chapter meeting of American Statistical Association, New Orleans, LA, 04/27/2012.
- 23) *Statistical tests in Gene Set Analysis*. Department of Electrical Engineering, University of New Orleans, 03/23/2012.
- 24) *Statistical tests in Gene Set Analysis*. Biostatistics, School of Public Health and Tropical Medicine, Tulane University, 01/10/2012.
- 25) *Statistical tests in Gene Set Analysis*. Biostatistics, School of Public Health, LSUHSC-NO, 11/18/2011
- 26) *Next Generation Sequencing and Gene Class Enrichment*. Gene Therapy Program, School of Medicine, LSUHSC-NO, April 28, 2010
- 27) *Next Generation Sequencing and Gene Class Enrichment*. Biostatistics, School of Public Health, LUHSC-NO, April 26, 2010
- 28) *Gene class enrichment analysis for RNA-seq data*. Department of Eletrical Engineering, University of New Orleans, April 16, 2010.
- 29) *Normalization Methods for Microarray Experiments*. Biostatistics, School of Public Health, LSUHSC-NO, October 20, 2008
- 30) *Design and Analysis of Genome-wide association studies*. Department of Eletrical Engineering, University of New Orleans, April 29, 2007

- 31) *Textile Fiber-length Properties of Seed Cotton – Part 1: Textile Mathematical Properties of the Normal Length Distribution*. Beltwide Cotton Conferences, New Orleans, LA, 01/12/2007.
- 32) *Optimal Designs for Generalized Linear Models*. Department of Statistics, University of Manitoba, March, 2005
- 33) *Optimal Designs for Generalized Linear Models*. School of Mathematics, Carleton University, March, 2005
- 34) Organize and participate the Spring (2004) meeting of the Louisiana Chapter of ASA, New Orleans, LA. 2004.
- 35) Organize and participate the Fall (2003) meeting of the Louisiana Chapter of ASA, Baton Rouge, LA. 2003.
- 36) *Optimal designs for Regression Models*. Department of Electrical Engineer, University of New Orleans, July 2003
- 37) Spring (2003) meeting of the Louisiana Chapter of ASA, Lafayette, LA.
- 38) *Boundary distributions of Multi-state Consecutive k-out-of-n system*, Fall (2002) meeting of the Louisiana Chapter of ASA, New Orleans, 2002.
- 39) *Optimal designs for spline wavelet regression models*. Department of Mathematics, University of New Orleans, November, 2000
- 40) *Extrapolation optimal designs*. Department of Mathematics, University of New Orleans, November, 1999.
- 41) *Minimax designs and weights for extrapolation of approximate regression responses with heteroscedastic errors*. The 27th annual meeting of the Statistical Society of Canada, 1999, Regina, Canada.
- 42) *Robust Extrapolation Designs*. The 20th Annual Meeting of Alberta Statisticians, 1998, Edmonton, Canada.
- 43) *Robust designs for extrapolation in the biased regression models*. The XXV annual meeting of the Statistical Society of Canada, 1997, Fredericton, Canada.

### 3. Other Scholarly Activities

#### A. Contributions to Refereed Publications - referee for (multiple times for some journals)

- 1) Statistics in Medicine
- 2) Statistica Neerlandica
- 3) Communications in Statistics – Simulation and Computation
- 4) Annals of Epidemiology
- 5) Scientific Reports
- 6) Statistics Papers
- 7) Frontiers in Genetics – Statistical Genetics and Methodology
- 8) Computational Statistics
- 9) Bioinformatics
- 10) BMC Bioinformatics
- 11) Experimental Biology and Medicine

- 12) METRON -International Journal of Statistics
- 13) 2011 International Conference on Intelligent Computing.
- 14) American Journal of Hypertension
- 15) BMC Cancer
- 16) Journal of Combinatorics, Information & System Sciences
- 17) Test
- 18) Canadian Journal of Statistics
- 19) Journal of Multivariate Analysis.
- 20) Statistics.
- 21) Statistica Sinica
- 22) Statistics & Probability Letters.
- 23) Journal of Statistical Planning and Inference
- 24) The Computational Statistics and Data Analysis.
- 25) International Journal of Applied Mathematics and Statistics.
- 26) ACM Transactions on Knowledge Discovery from Data.
- 27) Journal of Statistics computation and simulation.
- 28) Metron - International Journal of Statistics
- 29) Communications in Statistics – Theory and Method
- 30) Linear Algebra and its applications

## **B. University and Community Service**

- 1) University Faculty Senator (01/2012 - 06/2012), LSUHSC-New Orleans.
- 2) LSUHSC School of Public Health Administrative Council and Faculty Affairs (10/2013 – ).
- 3) LSUHSC School of Public Health Research Committee (10/2013 – ).
- 4) LSUHSC School of Public Health Bachelor of Public Health ad hoc curriculum committee (10/2018 – 2/2019).
- 5) Liaison to Bioinformatics/Biocomputing Expertise, Biomedical Informatics Core, Louisiana Clinical & Translational Science Center (09/2011 – 06/2017).
- 6) APT Committee (09/2009 – 06/2013), member. School of Public Health, LSUHSC – New Orleans
- 7) Grievance Committee (08/2013 – 10/2013), member, School of Public Health, LSUHSC-New Orleans
- 8) Recruitment Open House Committee (01/2012 - Now), member, School of Public Health, LSUHSC – New Orleans
- 9) Graduate Coordinator (11/2008 ~ 07/2015), Biostatistics, School of Public Health, LSUHSC – New Orleans
- 10) Ph.D qualifying Examination Committee (04/2009 – ), Biostatistics, School of Public Health, LSUHSC – New Orleans
- 11) Providing Biostatistics Problems and Solutions to PhD Ph.D qualifying Examination in Epidemiology Program, School of Public Health, LSUHSC, and grading the exam, 06/2016.
- 12) Providing Biostatistics Problems and Solutions to PhD Ph.D qualifying Examination in Epidemiology Program, School of Public Health, LSUHSC, and grading the exam, 06/2015

- 13) Providing Biostatistics Problems and Solutions to PhD Ph.D qualifying Examination in Epidemiology Program, SoPh, LSUHSC, Grading the exam, 06/2014
- 14) Colloquium Committee (08/2007 ~ 08/2008), Chair. Department of Mathematics, University of New Orleans
- 15) Courses and Curricula Committee (08/2001 ~ 08/2008), member. Department of Mathematics, University of New Orleans
- 16) Course Coordinating Committee – Elementary Statistics (08/2006 ~ 08/2008), Chair. Department of Mathematics, University of New Orleans
- 17) Serving in a University Grievance Committee at University of New Orleans, 02/2006 – 05/2006
- 18) Vice president (2002 – 2003), Louisiana Chapter of American Statistical Association.
- 19) President (2003 – 2004), Louisiana Chapter of American Statistical Association.
- 20) Secretary/Treasurer (2004 – 2005), Louisiana Chapter of American Statistical Association.

### **C. Professional Service and Public Outreach**

- 1) Grant reviewer for the Natural Sciences and Engineering Research Council of Canada. 01/2020
- 2) Reviewer for Dr. Yuefeng Wu's promotion to Associate Professor with tenure in Department of Mathematics and Computer Science, University of Missouri at St. Louis, 7/2019
- 3) Reviewer for Dr. Beibei Guo's promotion to Associate Professor with tenure in Department of Experimental Statistics, LSU – Baton Rouge, 2/2019
- 4) Grant reviewer for the Natural Sciences and Engineering Research Council of Canada. 12/2018
- 5) Reviewer for Dr. Peggy Honore's promotion to Full Professor in Health Policies and Systems Management Program, LSU School of Public Health. 9/2017
- 6) Reviewer for Dr. Qi Zheng's promotion to Full Professor in Department of Epidemiology and Biostatistics, Texas A&M University, 08/2017
- 7) Reviewer for Dr. Yan Daniel Zhao's tenure promotion in Department of Biostatistics and Epidemiology, University of Oklahoma Health Sciences Center. 08/2016
- 8) Reviewer for Dr. Ryan Gill's promotion to Full Professor in Department of Mathematics, University of Louisville. 05/2016.
- 9) Reviewer for Dr. Yanqing Yi's promotion to Associate Professor with tenure in Faculty of Medicine at Memorial University of Newfoundland. 06/2014

- 10) Grant reviewer for LSUSHC School of Public Health Pilot grant program, total 6 grant applications, 02/2016.
- 11) Grant reviewer for the Natural Sciences and Engineering Research Council of Canada. 01/2015
- 12) Grant reviewer for Louisiana Clinical & Translational Center pilot grant program, total 12 grant applications, 10/2013.
- 13) Grant reviewer for Louisiana Clinical & Translational Center pilot grant program, total 3 grant applications, 07/2013.
- 14) Statistical consulting to
  - InnoGenomics Technologies, LLC, New Orleans
  - Dr. Michelle Loch (Hematology and Oncology), Drs. Kyle Happel, Sarah Jolley, Mathew Lammi, David Welsh (Pulmonary/Critical Care and Allergy/Immunology). Dr. Shyamal Desai, Suresh k. Alahari (Biochemistry), Drs. Patricia Malina, Ping Zhang (Physiology), Dr. Xiao Ching Li (Cell Biology and Anatomy, Neurosciences), Dr. Doan Nguyen (Microarray and Genome Bioinformatics Ceneter), etc. in School of Medicine, LSUHSC-New Orlean,
  - Dr. Lorrie Powel in School of Nursing, LSUHSC-New Orleans
  - Dr. Stuard Chalew, Dr. Seth Pincus, Dr. Lizhe Xu in New Orleans Children's Hospital,
  - Dr. Ifeanyi Iwuchukwu in Ochsner Hospital.
  - Dr. Kun Zhang in Xavier University of New Orleans,
  - Dr. Kearny Q. Robert in Southern Research Center, New Orleans, USDA
  - Drs. Asim Abdel-Mageed, Zack A. Elmageed in School of Medicine, Tulane University.
  - Dr. Tara M. Henagan in Pennington Biomedical Research Center, LSU

## 4. Grants and Contracts

### A. Funded

- 1) 1R41HD095779, NIH  
 Noninvasive biomarkers for gastrointestinal disease in preterm infants  
 PI: Rebecca Buckley, PhD, and Sunyoung Kim, PhD, 12/01/2019 – 11/30/2020  
 Role: Senior/Key Personnel - Biostatistician
- 2) 1R01EY030499-01, NIH  
 Antisense therapy for the treatment of visual loss in Usher syndrome  
 PI: Jennifer Lentz, PhD, 09/01/2019 – 06/30/2024  
 Role: Co-Investigator



- 3) 1R21CA223119-01A1, NIH/NCI  
AR-V7 acetylation in castration resistant prostate cancer  
PI: Wanguo Liu, PhD, 08/01/2018 – 05/31/2020  
Role: Co-Investigator
- 4) 1R01NS104117-01A1, NIH/NINDS  
Novel combinatory therapy for experimental ischemic stroke  
PI: Nicolas Bazan, MD, PhD, 5/1/2018 – 4/30/2023  
Role: Co-Investigator
- 5) 2 U54 GM104940-02, NIH/NIGMS  
Louisiana Clinical and Translational Science Center  
PI: John Kirwan, PhD (Pennington Biomedical Research Center),  
7/1/2017 – 6/30/2022
- 6) LSUHSC School of Medicine Indirects  
Residents training project, 07/2017 – present  
Role: Biostatistician
- 7) 6 NU58DP006332-02-00, CDC  
Cancer Prevention and Control Programs for State, Territorial and Tribal  
Organizations  
PI: Donna William, ScD. 1/1/2019 – 6/29/2019  
Role: Biostatistician
- 8) LSUHSC School of Medicine Indirects  
Health aging project  
PI: Gerald Berenson, MD, 1/1/2018 – 6/30/2019  
Role: Biostatistician
- 9) CDC 1 NU58DP006111-01-00  
Using Survivorship Care Planning to Improve Low-Income, Cancer Patient Health  
Outcomes  
PI: Donna Williams, ScD, 09/30/2015 – 09/30/2018  
Role: Biostatistician.
- 10) LSU Health – New Orleans Health Care Services Division Healthcare Effectiveness  
Project: Aging and chronic illnesses among people living with HIV/AIDS,  
PI: John Couk, MD, 06/01/2015 – 3/30/2018  
Role: Co-Investigator.
- 11) LSU Health – New Orleans Health Care Services Division Healthcare Effectiveness  
Project: Diabetes research  
PI: John Couk, MD, 06/01/2015 – 3/30/2018  
Role: Co-Investigator.

- 12) NIH NCI (R21CA185213-01)  
Germline Mutations in African American Families with Aggressive Prostate Cancer  
PI: Wanguo Liu, PhD, 04/01/2015 – 03/31/2017  
Role: Co-Investigator
- 13) NIH NIGMS (5P30GM103340-03)  
Mentoring Neuroscience in Louisiana: A Biomedical Program to Enhance Neuroscience  
PI: Nicolas Bazan, MD, PhD, 02/2015 – 05/2017  
Role: Biostatistician
- 14) NIH NIGMS (1 U54GM104940-01)  
Louisiana Clinical and Translational Science Center  
PI: William T. Cefalu, MD (Pennington Biomedical Research Center), 08/15/2012 – 06/30/2017  
Role: Biostatistician
- 15) NIH NCI (5R21CA157263-02)  
Feasibility of Community Based Tampon Self-Sampling to Prevent Cervical Cancer.  
PI: Donna Williams, ScD, 09/2014 – 6/30/2015  
Role: Biostatistician
- 16) NIH INBRE LBRN (NIH NCRR P20RR016456)  
PI: Thomas Klei (LSU)  
Pilot project PI: Kun Zhang (Xavier University of Louisiana), 05/01/2011 – 04/30/2012  
Title: Enhanced microRNAs Research Through Bioinformatics Tool Development.  
Role: Site PI
- 17) La BoR (LEQSF(2002-04)-ENH-TR-92)  
Enhancement of Industry Oriented Statistical Education at UNO.  
PI: Tumulesh Solanky (University of New Orleans), 06/01/2002 – 06/30/2004.  
Role: Co-PI.

## **5. Thesis / Dissertation committee service**

### **A. Ph.D Students supervised.**

- 1) Harum Mazumder (08/2019 – , Biostatistics, School of Public Health, LSUHSC)
- 2) Xiaodan Zhu (08/2019 – , Biostatistics, School of Public Health, LSUHSC)
- 3) Qiufan Fu (08/2018 – , Biostatistics, School of Public Health, LSUHSC).
- 4) Xinnan Wang (08/2015 – 12/2019), Biostatistics, School of Public Health, LSUHSC).  
Current position: Biostatistician in Medpace, Inc.  
Dissertation: Overlapping group Lasso screening tests and applications in genomic data analysis.

- 5) Yi Zhai (08/2014 – 05/2017, Biostatistics, School of Public Health, LSUHSC).  
Current Position: Assistant Professor, Qilu University of Technology, China.  
Dissertation: Optimal Designs for Some Dose-Response Models
- 6) Ruofei Du (08/2009 – 12/2013, Biostatistics, School of Public Health, LSUHSC)  
Current Position: Assistant Professor in Department of Biostatistics, University of Arkansas, Little Rock, AR.  
First Position: Assistant Professor at University of New Mexico Cancer Center Biostatistics Shared Resource, Albuquerque, NM.  
Dissertation: Functional profiling of next-generation sequencing metagenomes by statistical methods
- 7) Shengping Yang (08/2010 – 05/2013, Biostatistics, School of Public Health, LSUHSC).  
Current Position: Assistant Professor at Pennington Biomedical Research Center, Baton Rouge, LA.  
First Position: Assistant Professor at Texas Tech University, Lubbock, TX.  
Dissertation: Normalization and genotyping methodologies for single nucleotide polymorphism array and next-generation sequencing data.
- 8) Xiaohu Li (08/2007 – 08/2008), Department of Mathematics, University of New Orleans. Quitted advising after I moved to LSUHSC.

## **B. MS Students Supervised**

- 1) Jacob Maronge (08/2014 – 05/2016, Biostatistics, School of Public Health, LSUHSC)  
Current position: Admitted to PhD program in Biostatistics, University of Wisconsin – Madison.
- 2) S. Cao (08/2014 – 05/2016, Biostatistics, School of Public Health, LSUHSC)  
SAS Programmer.
- 3) Yuan Zhou (08/2007 – 05/2010, Biostatistics, School of Public Health, LSUHSC)  
First position: Biostatistician, Covance.

## **C. Ph.D Dissertation Committee member**

- 1) Heng-Yuan (Henry) Tung (08/2015 – 12/2020), Biostatistics, School of Public Health, LSUHSC-NO.
- 2) Yue Yi (Defense: 06/20/2017), Mathematics and Statistics, University of Victoria, Canada. Served as External Examiner.
- 3) Weiwei Ouyang (defended: 04/03/2017), Department of Global Biostatistics and Data Science, Tulane University School of Public Health.
- 4) Tat Yau (08/2013 – 05/2019), Biostatistics, School of Public Health, LSUHSC-NO.
- 5) Omar Aldibasi (08/2013 – 12/2018), Biostatistics, School of Public Health, LSUHSC-NO.
- 6) Jonathon Joseph (08/2012 – 08/2018, not defended), Biostatistics, School of Public Health, LSUHSC-NO.
- 7) Han Zhu (08/2011 – 05/2016). Biostatistics, School of Public Health, LSUHSC-NO.
- 8) Denis Danos (08/2010 – 05/2016). Biostatistics Program, School of Public Health, LSUHSC-New Orleans.

- 9) Lauren Cole (Defense: 05/2015). Epidemiology Program, School of Public Health, LSUHSC-New Orleans.
- 10) Yuan Zhou (08/2010 – 12/2014). Biostatistics, School of Public Health, LSUHSC-NO.
- 11) Myungok Lee (Defended: 05/2012). Biostatistics Program, School of Public Health, LSUHSC-NO.
- 12) Syed Ahmed (Defense: 12/2006), Department of Naval Architecture and Marine Engineering, University of New Orleans.
- 13) Zhanlue Zhao (Defense: 03/17/2006), Department of Electrical Engineering, University of New Orleans.
- 14) Joshua P. Boltz (Defense: 04/04/2005), Department of Civil and Environmental Engineering, University of New Orleans.
- 15) Keshu Zhang (Defense: 12/02/2003), Department of Electrical Engineering, University of New Orleans.

#### **D. MS thesis committee member**

- 1) Catherine Callan (08/2016 – 05/2018), Biostatistics Program, School of Public Health, LSUHSC-NO
- 2) Samantha Spiers (08/2015 – 08/2017), Biostatistics Program, School of Public Health, LSUHSC-NO

#### **E. MS Examination Committee for more than 60 (non-thesis) graduate students in the Department of Mathematics, University of New Orleans.**

## **6. Teaching Activities**

### **A. Course Director and Instructor at LSUHSC – New Orleans**

- 2020 Fall      BIOS 7204 – Advanced Statistical Theory  
                    NEURO 203 – Investigative neuroscience (2-hour lecture)
- 2020 Spring    BIOS 6308 – Multivariate Statistical Methods  
                    BIOS 6700 – Biostatistical Seminar
- 2019 Fall      BIOS 7204 – Advanced Statistical Theory
- 2019 Spring    BIOS 6302 – Longitudinal Data Analysis
- 2018 Fall      BIOS 7204 – Advanced Statistical Theory  
                    NEURO 203 – Investigative neuroscience (2-hour lecture)
- 2018 Spring    BIOS 6308 – Multivariate Statistical Methods  
                    BIOS 6700 – Biostatistical Seminar (1 credit)
- 2017 Fall      BIOS 7204 – Advanced Statistical Theory
- 2017 Spring    BIOS 6302 – Longitudinal Data Analysis

- 2016 Fall BIOS 6318 – Nonparametric Statistics  
NEURO 203 – Investigative neuroscience (2-hour lecture)
- 2016 Spring BIOS 6700 – Research seminar in Biostatistics
- 2015 Fall BIOS 6210 – Categorical Data Analysis  
BIOS 6304 – Design and Analysis of Experiments  
NEURO 203 – Investigative neuroscience (2-hour lecture)
- 2015 Spring BIOS 6302 – Longitudinal Data Analysis
- 2014 Fall BIOS 6500 – Time Series Analysis
- 2014 Spring BIOS 6500 (Now 6318) – Nonparametric Statistics
- 2013 Fall BIOS 6304 – Design and Analysis of Experiments
- 2013 Spring BIOS 6212 – Survival Analysis
- 2012 Fall BIOS 6210 – Categorical Data Analysis
- 2011 Fall BIOS 6500 – Mathematical techniques for Statistics
- 2011 Spring BIOS 6304 – Design and Analysis of Experiments
- 2010 Fall BIOS 6500 – Section2. Statistical Genetics
- 2009 Fall BIOS 6450 – Design and Analysis of Gene Expression Study
- 2009 Spring BIOS 6500 – Nonparametrics

#### **B. New Courses developed at LSUHSC – New Orleans**

- 1) BIOS 6318 – Nonparametric Statistics, 3 credit hours.
- 2) BIOS 6450 – Design and Analysis of Gene Expression Study, 3 credit hours
- 3) BIOS 6500 – Time Series Analysis, 3 credit hours.
- 4) BIOS 6500 – Statistical Genetics, 3 credit hours.
- 5) BSPH 3300 – Introduction to Biostatistics, 3 Credit hours.
- 6) BSPH 3302 – Data analysis in Public Health, 3 Credit hours.

#### **C. Course director and Instructor at the University of New Orleans**

- 2008 Summer MATH 6300 Statistical Programming SAS  
MATH 2314 – Elementary Statistics
- 2008 Spring MATH 6390 – Nonparametric Statistics  
MATH 6304 – Regression Analysis  
MATH 2314 – Elementary Statistics
- 2007 Fall MATH 6303 – Multivariate Statistical Analysis  
MATH 2314 – Elementary Statistics – Session I  
MATH 2314 – Elementary Statistics – Session II

- 2007 Summer MATH 6300 Statistical Programming SAS  
MATH 2314 – Elementary Statistics
- 2007 Spring MATH 6304 – Regression Analysis  
MATH 6342 – Designs of Experiments  
MATH 2314 – Elementary Statistics
- 2006 Fall MATH 6341 – Linear Statistical Models  
MATH 2314 – Elementary Statistics – Session I  
MATH 2314 – Elementary Statistics – Session II
- 2006 Summer MATH 6300 Statistical Programming SAS  
MATH 2314 – Elementary Statistics
- 2006 Spring MATH 6304 – Regression Analysis  
MATH 6331 – Categorical Data Analysis  
MATH 2314 – Elementary Statistics
- 2005 Fall MATH 6390 – Nonparametric Statistics  
(reduced load due to Hurricane Katrina)
- 2005 Summer MATH 2314 – Elementary Statistics – Session I  
MATH 2314 – Elementary Statistics – Session II
- 2005 Spring MATH 6331 – Categorical Data Analysis  
MATH 2314 – Elementary Statistics – Session I  
MATH 2314 – Elementary Statistics – Session II
- 2004 Fall MATH 6303 – Multivariate Statistical Analysis  
MATH 6390 – Nonparametric Statistics  
MATH 2314 – Elementary Statistics
- 2004 Summer MATH 6351 – Time Series Analysis  
MATH 2314 – Elementary Statistics
- 2004 Spring MATH 1126 – Precalculus Trigonometry  
MATH 6304 – Regression Analysis  
MATH 6331 – Categorical Data Analysis
- 2003 Fall MATH 2314 – Elementary Statistics  
MATH 6362 – System Reliability Analysis  
MATH 6301 – Applied Statistics
- 2003 Summer MATH 6361 – Statistical Quality Control  
MATH 2314 – Elementary Statistics

- 2003 Spring MATH 2314 – Elementary Statistics (Session 1)  
MATH 6304 – Regression Analysis  
MATH 2314 – Elementary Statistics (Session 2)
- 2002 Fall MATH 1126 – Precalculus Trigonometry  
MATH 6362 – System Reliability Analysis  
MATH 6301 – Applied Statistics
- 2002 Spring MATH 1115 – College Algebra  
MATH 6303 – Multivariate Statistical Analysis  
MATH 6331 – Categorical Data Analysis
- 2001 Fall MATH 1115 – College Algebra  
MATH 6361 – Statistical Quality Control  
MATH 6301 – Applied Statistics
- 2001 Spring MATH 1115 – College Algebra  
MATH 2314 – Elementary Statistics  
MATH 6304 – Regression Analysis
- 2000 Fall MATH 2314 – Elementary Statistics  
MATH 6301 – Applied Statistics

## 7. Honors and Awards

- Faculty Initiative for Technology in Teaching, 2002, University of New Orleans
- University of Alberta travel award, 1998
- Eoin L. Whitney University of Alberta Graduate Scholarship, 1997
- University of Alberta PhD Scholarship, 1994 -- 1996