ZHIGUANG (CALEB) HUO

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(352)-294-5929 ◇ zhuo@ufl.edu
https://caleb-huo.github.io

EDUCATION

University of Pittsburgh, Pittsburgh, PA, US

- Ph.D. in Biostatistics, *April 2017*
  - Dissertation: *Statistical integrative omics methods for disease subtype discovery*
  - GPA: *3.93/4.00*
  - Advisors: George C. Tseng, ScD and Yong Seok Park, PhD
- M.S. in Physics, *Apr 2012*
  - *GPA: 3.86/4.00*

Harbin Institute of Technology, Harbin, Heilongjiang, China

- B.S. in Physics, *June 2011*
  - GPA: *90.43/100*

RESEARCH INTEREST

My research interest lies in the intersection between statistical methodology and its applications to genomics and bioinformatics. I am particularly interested in genomic data integration, models and variable selection in high-dimensional data, graphical models, Bayesian methods, optimization and statistical computing. I have collaborated with biologists in the fields of cancer and psychiatry, analyzing a broad range of genomic data. These experiences motivate me to develop methodology and software that are practical, user-friendly and easy to use.

PROFESSIONAL EXPERIENCE

- Assistant Professor *July 2017 ∼ Now*
  - Department of Biostatistics, University of Florida

PUBLICATIONS

†: co-first author; *: corresponding author; ___: student paper.

Submitted

1. Lingsong Meng, Dorina Avram, George Tseng, **Zhiguang Huo***. Outcome-guided Sparse K-means for Disease Subtype Discovery via Integrating Phenotypic Data with High-dimensional Transcriptomic Data. (Submitted to Journal of the Royal Statistical Society: Series C (Applied Statistics))
2. **Zhiguang Huo**, Brinda K. Rana, Jeremy A. Elman, Ruocheng Dong, Corinne D. Engelman, Sterling C. Johnson, Michael J. Lyons, Carol E. Franz, William S. Kremen, Jinying Zhao. Metabolic profiling of cognitive aging in midlife. (Submitted to Frontier in Aging Neuroscience)
3. Lauren M. Decker, **Zhiguang Huo**, Haocheng Ding, Michael S. Simpson, Stephanie L. Woelfel, Beth A. Smith. Just be Confident!: An analysis of factors related to increases in student confidence in the acute care setting. (Submitted to Journal of Physical Therapy Education)

[0]Last modified: August 19, 2020

4. Dorina Avram, Upasana Parthasarathy, Ashley Zuniga, Zhiwei Xu, Mu Yu, Kevin Luque-Sanchez, Xiaoping Luo, Jonathan Cho, Eric Helm, Theodore Drashansky, Zhen He, Christian Jobin, Mariola Edelmann, Hamsa Thayele Purayil, Yehia Daaka, Kartika Venugopal, Olga Guryanova, Daiqing Liao, Jian Li, Sarah Glover, Marcus Muehlbauer, **Zhiguang Huo**, Alexander Kwiatkowski, Benjamin G Keselowsky, Thomas George, Daohong Zhou, Yaxia Yuan, and Liang Zhou. Deficiency in HECTD3 promotes increased colonic tumorigenesis and inflammation. (Submitted to Gastroenterology)
5. Daiqing Liao, Iqbal Mahmud, Guimei Tian, **Zhiguang Huo**, Jia Wang, Jessica Lewis, Aaron Waddell, Lisa Zhao, Jian-Liang Li, Timothy Garrett, and Yehia Daaka. DAXX drives de novo lipogenesis and is a novel target for cancer therapy. (Submitted to Cell Press journals)
6. Joseph Collins, **Zhiguang Huo**, Danxin Wang, Estrogen receptor alpha (ESR1) ChIP-Seq identifies distinct ligand-free ESR1 genomic binding sites in human hepatocytes and liver tissue. (Submitted to Human Molecular Genetics)
7. Burcu F. Darsta, **Zhiguang Huo**, Erin M. Jonaitis, Rebecca L. Koscik, Lindsay R. Clarkc, Qiongshi Lu, William S. Kremen, Carol E. Franz, Brinda Rana, Michael J. Lyons, Kirk J. Hogan, Jinying Zhao, Sterling C. Johnsonc, Corinne D. Engelman. Metabolites associated with early cognitive changes implicated in Alzheimer's disease. (Submitted to Journal of Alzheimer Disease)
8. Brendan M. Gabriel, Ali Alt?nta?, Richard Tjrnhammar, Laura Sardon-Puig, Jonathon A.B. Smith, Xiping Zhang, Astrid L. Basse, Rhianna C. Laker, Carles Canto, Hui Gao, Jonas T. Treebak, Antonio Zorzano, **Zhiguang Huo**, Mikael Rydn, Karyn A. Esser, Nicolas J. Pillon, Romain Barrs, Anna Krook, Juleen R. Zierath. Disrupted circadian core-clock oscillations in Type 2 Diabetes attenuate rhythmic mitochondrial metabolism. (Submitted to Nature Metabolism)
9. Pedro A Valdes-Hernandez, Soamy Montesino-Goicolea, Natalie Ebner, Eric S Porges, Adam J Woods, Ronald A Cohen, **Zhiguang Huo**, Joseph Leo Riley, Roger Benton Fillingim, Yenisel Cruz-Almeida. Resting State Functional Connectivity Patterns are Associated with Chronic Pain Duration in Community-Dwelling Older Adults. (Submitted to Journal of Pain Research)
10. Hongcheng Liu, Hung Yi Lee, **Zhiguang Huo**. High-Dimensional Learning with Linear Constraints. (Submitted to Mathematics of Operations Research)
11. Soamy Montesino-Goicolea, Puja Sinha; Zhiguang Huo; Asha Rani; Thomas Foster; Yenisel Cruz-Almeida. Enrichment of Genomic Pathways Based on Differential DNA Methylation Profiles Associated With Chronic Musculoskeletal Pain in Older Adults: An Exploratory Study (Submitted to Molecular Pain)
12. Theodore Drashansky, Eric Helm, Nina Curkovic, Jaimee Cooper, Xiaoping Luo, Lingsong Meng, William Collins, Benjamin Keselowsky, Derek Sant'Angelo, Zhiguang Huo, Liang Zhou, Dorina Avram Requirement for Bcl11b in thymic development of Mucosal Associated Invariant T cells and MAIT17 program. (Submitted to Nature Immunology)
13. Ryan W. Logan, Angela R. Ozburn, Rachel N. Arey, Kyle D. Ketchesin, Alicia Winquist, Andrew Crain, Brian T. D. Tobe, Darius Becker-Krail, Matthew B. Jarpe, Xiangning Xue, Wei Zong, Zhiguang Huo, Puja K. Parekh, Xiyu Zhu, Ethan Fitzgerald, Hui Zhang, Jeffrey Oliver-Smith, Lauren M. DePoy, Mariah Hildebrand, Evan Y. Snyder, George C. Tseng, and Colleen A. McClung. Valproate reverses mania-like behaviors in mice via preferential targeting of HDAC2. (Submitted to Nature Medicine)

2020

14. **Zhiguang Huo**, Shaowu Tang, Yongseok Park, George Tseng. (2020) P-value evaluation, variability index and biomarker categorization for adaptively weighted Fisher's meta-analysis method in omics applications. *Bioinformatics* 36(2), 524-532.
15. **Zhiguang Huo**, Lei Yu, Jingyun Yang, Yun Zhu, David A. Bennett, Jinying Zhao. (2020) Brain and blood metabolome for Alzheimer's dementia: Findings from a targeted metabolomics analysis. *Neurobiology of aging* 86, 123-133.
16. **Zhiguang Huo***, Li Zhu, Tianzhou Ma, Hongcheng Liu, Song Han, Daiqing Liao, Jinying Zhao and George Tseng*. (2020) Two-way Horizontal and Vertical Omics Integration for Disease Sub-

type Discovery. *Statistics in Bioscience* 12, 1?22.

17. Marianne Seney, William Paden, Kelly Barko, Rachel Puralewski, Kelly Cahill, **Zhiguang Huo**, Micah Shelton, George Tseng, and Ryan Logan (2020) Sex differences in adult mood and in stress-induced transcriptional coherence across mesocorticolimbic circuitry. *Translational Psychiatry* 10(1), pp.1-14.
18. Nader Shaikh, Judith M Martin, Alejandro Hoberman, Megan Skae, Linette Milkovich, Christi McElheny, Robert W Hickey, Diana Kearney, Massoud Majd, Eglal Shalaby-Rana, George Tseng, John F Alcorn, Jay Kolls, Marcia Kurs-Lasky, William Horne, **Zhiguang Huo**, Timothy R Shope. (2020) Biomarkers that differentiate false positive urinalyses from true urinary tract infection. *Pediatric Nephrology* 35(2), 321-329..
19. Ali Zarrinpar, Ting-Yuan D Cheng, **Zhiguang Huo**. (2020) What Can We Learn About Drug Safety and Other Effects in the Era of Electronic Health Records and Big Data That We Would Not Be Able to Learn from Classic Epidemiology? *Journal of Surgical Research* 246, 599-604.
20. Saunjoo L. Yoon, Oliver Grundmann, Joseph J. Williams, Samuel S. Wu, Christiaan Leeuwenburgh, **Zhiguang Huo**, and Thomas J. George Jr. (2020) Differential response to targeted acupuncture by gender in patients with gastrointestinal cancer cachexia: secondary analysis of a randomized controlled trial. *Acupuncture in Medicine* 38(1), 53-60.
21. Kristin Curry Greenwood, Jennifer Kirwin, **Zhiguang Huo**. (2020) Design and Implementation of the Health Professions Simulation Assessment, a Tool to Assess Students' Perceptions of Simulation Experiences. *Journal of Acute Care Physical Therapy*, 11(2), 70-78.
22. Yenisel Cruz-Almeida, Puja Sinha, Asha Rani, **Zhiguang Huo**, Roger Benton Fillingim, Thomas C Foster. (2020) Epigenetic Aging is Associated with Clinical and Experimental Pain in Community-Dwelling Older Adults. *Molecular Pain* (Accepted)
23. Theodore Drashansky†, Eric Helm†, **Zhiguang Huo**, Upasana Parthasarathy, Ashley Zuniga, Jonathan Cho, Zhiwei Xu, Mohammad Uddin, Kyle Lorentsen, Safiehkhatoon Moshkani, Liang Zhou, Nina Curkovic, Preet Kumar, Xiaoping Luo, Dorina Avram. (2020) Bcl11b prevents fatal autoimmunity by promoting Treg cell program and constraining innate lineages in Treg cells. *Science Advances* (Accepted)
24. Song Han*, **Zhiguang Huo***, Kathy Nguyen, Fanchao Zhu, Patrick W Underwood, Kari Basso, Thomas George, and Steven Hughes. (2020) The Proteome of Pancreatic Cancer-Derived Exosomes Reveals Signatures Rich in Key Signaling Pathways. *PROTEOMICS* (Accepted)
25. Yonghan He, Sajid Khan, **Zhiguang Huo**, Dongwen Lv, Xuan Zhang, Xingui Liu, Yaxia Yuan, Robert Hromas, Mingjiang Xu, Guangrong Zheng, Daohong Zhou. Proteolysis targeting chimeras (PROTACs) are emerging therapeutics for hematologic malignancies. *Journal of Hematology & Oncology* (Accepted)
26. Soamy Montesino-Goicolea, Pedro A Valdes-Hernandez, Lorraine Hoyos, Adam J. Woods, Ronald Cohen, **Zhiguang Huo**, Joseph L. Riley III, Eric C. Porges, Roger B. Fillingim, Yenisel Cruz-Almeida. Cortical thickness mediates the association between self-reported pain and sleep quality in community-dwelling older adults. *Journal of Pain Research* (Accepted)

2019

27. Marianne L. Seney, Kelly Cahill, John F. Enwright III, Ryan W. Logan, **Zhiguang Huo**, Wei Zong, George Tseng, and Colleen A. McClung. (2019) Diurnal rhythms in gene expression in the prefrontal cortex in schizophrenia. *Nature Communications* 10, no. 1 (2019): 1-11.
28. Li Zhu, **Zhiguang Huo**, Tianzhou Ma, George Tseng. (2019) Bayesian indicator variable selection to incorporate multi-layer overlapping group structure in multi-omics applications. *The Annals of Applied Statistics* 13(4), 2611-2636. (An earlier version won ENAR distinguished student paper award 2018)
29. **Zhiguang Huo**, Chi Song*, George C. Tseng*. Bayesian latent hierarchical model for transcriptomic meta-analysis to detect biomarkers with clustered meta-patterns of differential expression signals. *The Annals of Applied Statistics* 13, no. 1 (2019): 340-366. (An earlier version won ASA Biometrics Section JSM Travel Award 2018)

30. **Zhiguang Huo**, Yun Zhu, Lei Yu, Jingyun Yang, Philip De Jager, David A. Bennett, Jinying Zhao. DNA methylation variability in Alzheimer's Disease. *Neurobiology of aging* 76 (2019): 35-44.
31. Nader Shaikh, Judith M Martin, Alejandro Hoberman, Megan Skae, Linette Milkovich, Andrew Nowalk, Christi McElheny, Robert W Hickey, Diana Kearney, Massoud Majd, Eglal Shalaby-Rana, George Tseng, John F Alcorn, Jay Kolls, Marcia Kurs-Lasky, **Zhiguang Huo**, William Horne, Greg Lockhart, Hans Pohl, Timothy R Shope. (2019) Host and Bacterial Markers that Differ in Children with Cystitis and Pyelonephritis. *The Journal of pediatrics* , 209, 146-153.

2018

32. Tianzhou Ma†, **Zhiguang Huo**†, Anche Kuo†, Li Zhu, Fang Zhou, Xiangrui Zeng, Chien-Wei Lin, Silvia Liu, Lin Wang, Tanbin Rahman, Lun-Ching Chang, Sunghwan Kim, Jia Li, Yongseok Park, Chi Song, Steffi Oesterreich, Etienne Sibille and George C. Tseng. MetaOmics - Comprehensive Analysis Pipeline and Web-based Software Suite for Transcriptomic Meta-Analysis. *Bioinformatics* 35, no. 9 (2018): 1597-1599.
33. Marianne Seney, **Zhiguang Huo**, Kelly Cahill, Leon French, Rachel Puralewski, Joyce Zhang, Ryan W. Logan, George Tseng, David A Lewis, Etienne Sibille. Opposite molecular signatures of depression in men and women. *Biological Psychiatry* 84, no. 1 (2018): 18-27.
34. Cynthia R. Johnson, Kimberly Brown, Susan Hyman, Maria M. Brooks, Courtney Aponte, Lynne Levato, Brianna Schmidt, Victoria Evans, **Zhiguang Huo**, Roxanna Bendixen, Heather Eng, Theresa Sax, Tristram Smith. Parent Training for Feeding Problems in Children with Autism Spectrum Disorder: Initial Randomized Trial. *Journal of pediatric psychology* 44, no. 2 (2018): 164-175.
35. John Enwright, **Zhiguang Huo**, Dominique Arion, John P. Corradi, George Tseng, and David A. Lewis. Transcriptome alterations of prefrontal cortical parvalbumin neurons in schizophrenia. *Molecular psychiatry* 23, no. 7 (2018): 1606.
36. Kelly Cahill†, **Zhiguang Huo**†, George Tseng, Ryan W. Logan*, Marianne L. Seney*. Improved identification of concordant and discordant gene expression signatures using an updated rank-rank hypergeometric overlap approach. *Scientific Reports* 8.1 (2018): 9588.
37. Wang, Kai Wen, Xiangrui Zeng, Xiaodan Liang, **Zhiguang Huo**, Eric P. Xing, and Min Xu (2018). Image-derived generative modeling of pseudo-macromolecular structures-towards the statistical assessment of Electron CryoTomography template matching. *The British Machine Vision Conference*

2017

38. **Zhiguang Huo**, George C. Tseng. Integrative Sparse K-means with overlapping group lasso in genomic applications for disease subtype discovery. *The Annals of Applied Statistics*, 11(2) (2017): 1011-1039.
39. SungHwan Kim, Dongwan Kang, **Zhiguang Huo**, Yongseok Park, and George C. Tseng. Meta-analytic principal component analysis in integrative omics application. *Bioinformatics* 34, no. 8 (2017): 1321-1328.
40. Dominique Arion, **Zhiguang Huo**, John F. Enwright, John P. Corradi, George Tseng, and David A. Lewis. Transcriptome alterations in prefrontal pyramidal cells distinguish schizophrenia from bipolar and major depressive disorders. *Biological psychiatry* 82, no. 8 (2017): 594-600.

2016

41. **Zhiguang Huo**, Ying Ding, Silvia Liu, Steffi Oesterreich, and George Tseng. Meta-Analytic Framework for Sparse K-Means to Identify Disease Subtypes in Multiple Transcriptomic Studies. *Journal of the American Statistical Association*, 111, no. 513 (2016): 27-42.
42. Zhu, Li, Ying Ding, Cho-Yi Chen, Lin Wang, **Zhiguang Huo**, SungHwan Kim, Christos Sotiriou, Steffi Oesterreich, and George C. Tseng. MetaDCN: meta-analysis framework for differential co-expression network detection with an application in breast cancer. *Bioinformatics* 33, no. 8

(2016): 1121-1129.

2015 and before

43. Silvia Liu, Wei-Hsiang Tsai, Ying Ding, Rui Chen, Zhou Fang, **Zhiguang Huo**, SungHwan Kim, Tianzhou Ma, Ting-Yu Chang, Nolan Michael Priedigkeit, Adrian V. Lee, Jianhua Luo, Hsei-Wei Wang, I-Fang Chung, George C. Tseng. (2015). Comprehensive evaluation of fusion transcript detection algorithms and a meta-caller to combine top performing methods in paired-end RNA-seq data. *Nucleic Acids Research*, 44(5), e47-e47.
44. Tiffany A. Katz, Serena G. Liao, Vincent J. Palmieri, Robert K. Dearth, Thushangi Pathiraja, **Zhiguang Huo**, Patricia Shaw, Sarah Small, Nancy E. Davidson, David G. Peters, George C. Tseng, Steffi Oesterreich, Adrian V. Lee. Targeted DNA Methylation Screen in the Mouse Mammary Genome Reveals a Parity-Induced Hypermethylation of IGF1R That Persists Long after Parturition. *Cancer Prevention Research* 8, no. 10 (2015): 1000-1009.
45. Yan P. Yu, Silvia Liu, **Zhiguang Huo**, Amantha Martin, Joel B. Nelson, George C. Tseng and Jian-Hua Luo. (2015) Genomic copy number variations in the genomes of leukocytes predict prostate cancer clinical outcomes. *PloS one*, 10(8):e0135982.
46. SungHwan Kim, **Zhiguang Huo**, YongSeok Park and George Tseng. (2015) MetaOmics: transcriptomic meta-analysis methods for biomarker detection, pathway analysis and other exploratory purposes. Book chapter in Integrating omics data: statistical and computational methods. Edited by George C. Tseng, Debashis Ghosh, Xianghong Jasmine Zhou. *Cambridge University Press*. Page 39-67.
47. Xingbin Wang, Dongwan Kang, Kui Shen, Chi Song, Shuya Lu, Lunching Chang, Serena G. Liao, **Zhiguang Huo**, Naftali Kaminski, Etienne Sibille, Yan Lin, Jia Li and George C. Tseng. (2012) A Suite of R Packages for Quality Control, Differentially Expressed Gene and Enriched Pathway Detection in Microarray Meta-analysis. *Bioinformatics*, 28:2534-2536.

AWARD

Academic Awards

- Department of Biostatistics, University of Florida — March 2019
  - Outstanding Teacher

Student Awards

- Delta Omega Membership — April 2017
- American Statistics Association (ASA) Pittsburgh chapter — March 2016
  - Student of the year
- Department of Physics, Harbin Institute of Technology — May 2009
  - National Scholarship of P.R. China.
    (Awarded to the top 2 students in my Bachelors degree.)

Travel Awards

- 2018 ASA Biometrics Section JSM Travel Award, Vancouver, BC, Canada. — Aug 2018
- Objective Bayes meeting 2017 travel award, Austin, TX. — Dec 2017
- SAMSI, Research Triangle Park, NC.
  - Interface of Statistics and Optimization — Feb 2017
  - Optimization Summer School — Aug 2016
  - Epigenetics Workshop — Mar 2015
  - Beyond Bioinformatics Workshop — June 2014

TEACHING EXPERIENCE

Lecturer, University of Florida

- PHC6937 - Frontiers in Biostatistics Feb 2020
- PHC6068 - Biostatistical computing Fall 2019
- PHC6068 - Biostatistical computing Fall 2018
- PHC6937 - Frontiers in Biostatistics Feb 2018
- PHC6068 - Biostatistical computing Fall 2017

Lecturer, University of Pittsburgh

- BIOST2094 - Advanced R Computing – (with Tianzhou Ma) Spring 2017
- BIOST2025 - Special Studies in Bayesian Data Analysis Fall 2016
  - (with George Tseng, Tianzhou Ma and Li Zhu)

Guest Lecturer, University of Pittsburgh

- BIOST2055 - Introductory high-throughput genomic data analysis I: data mining and applications Mar 2016
  - Differential and isoform analysis of RNA-seq data
- BIOST2078 - Introductory high-throughput genomic data analysis II: theories and algorithms Dec 2015
  - Reproducible research and parallel computing in R
- BIOST2078 - Introductory high-throughput genomic data analysis II: theories and algorithms Dec 2014
  - Reproducible research

Teaching Assistant, University of Pittsburgh

- BIOST 2078 - Introductory high-throughput genomic data analysis II: theories and algorithms Fall 2014
- PHYS 0212 - Introduction to Laboratory Physics Spring 2012
- PHYS 0212 - Introduction to Laboratory Physics Fall 2011

PRESENTATIONS

Invited Oral Presentation

- Division of Biostatistics, Albert Einstein College of Medicine, Bronx, NY Oct 2019
  - Statistical methods on omics data integration for disease subtype discovery.
- Rush Alzheimer's Disease Center ROSMAP Investigator's Meeting, Chicago, IL April 2019
  - Brain and blood metabolome for Alzheimer's dementia.
- Department of Physiology and Functional Genomics at UF, Gainesville, FL October 2018
  - Statistical methods on omics data meta-analysis and integration, for disease subtype discovery and differential expression analysis.
- Joint Statistical Meetings, Vancouver, BC, Canada August 2018
  - Bayesian meta-analysis for biomarkers of meta-patterns.
- International Chinese Statistical Association conference, New Brunswick, NJ June 2018
  - Two-way Horizontal and Vertical Omics Integration for Disease Subtype Discovery.
- Rush Alzheimer's Disease Center ROSMAP Investigator's Meeting, Chicago, IL May 2018
  - Identifying variably methylated regions (VMRs) associated with AD.
- International Indian Statistical Association conference, Gainesville, FL May 2018
  - Two-way Horizontal and Vertical Omics Integration for Disease Subtype Discovery.
- Department of Biostatistics, University of Florida, Gainesville, FL Feb 2017
  - Meta-analytic and integrative framework for sparse K-means to identify disease subtypes.

Contributed Poster and Oral Presentation

- Poster, ENAR converence, Atlanta, GA Mar 2018

  - p-value evaluation, variability index and biomarker categorization for adaptively weighted Fisher's meta-analysis method in omics applications
- Poster, PHHP Research Day, University of Florida, Gainesville, FL — Feb 2018
  - Differential Variably Methylated Regions (dVMRs) Associated with Alzheimer's Disease: A Genome-wide DNA Methylation Study in Postmortem Brains
- Poster, 2018 UF Stats Winter Workshop, University of Florida, Gainesville, FL — Jan 2018
  - Bayesian latent hierarchical model for transcriptomic meta-analysis to detect biomarkers with clustered meta-patterns of differential expression signals
- Poster, Objective Bayes meeting 2017, University of Texas, Austin, TX — Dec 2017
  - Bayesian latent hierarchical model for transcriptomic meta-analysis to detect biomarkers with clustered meta-patterns of differential expression signals
- Poster, Dean's Day's competition, GSPH, University of Pittsburgh — April 2017
  - Circadian rhythms of gene expression in the human prefrontal cortex reveal distinct pattern between schizophrenia and control subjects
- Oral Presentation, ENAR, Washington, DC — Mar 2017
  - Bayesian latent hierarchical model for transcriptomic meta-analysis to detect biomarkers with clustered meta-patterns of differential expression signals.
- Poster, SAMSI optimization summer school, Research Triangle Park, NC — Aug 2016
  - Integrative Sparse K-means for disease subtype discovery using multi-level omics data.
- Poster, Pittsburgh ASA banquet, Pittsburgh, PA — Mar 2016
  - Integrative Sparse K-means for disease subtype discovery using multi-level omics data.
- Department of Biostatistics, University of Pittsburgh — Nov 2015
  - How to use Latex to make slides
- Oral Presentation, JSM, Seattle, WA — Aug 2015
  - Meta-analytic framework for sparse K-means to identify disease subtypes in multiple transcriptomic studies.
- Poster, Pittsburgh ASA banquet, Pittsburgh, PA — Apr 2015
  - Meta-analytic framework for sparse K-means to identify disease subtypes in multiple transcriptomic studies.
- Oral Presentation, ENAR Conference, Miami, FL — Mar 2015
  - Meta-analytic framework for sparse K-means to identify disease subtypes in multiple transcriptomic studies.
- Poster, Dean's Day's competition, GSPH, University of Pittsburgh — Mar 2015
  - Discover and Characterize Invasive Lobular Breast Carcinoma Subtypes.
- Oral Presentation, ENAR Conference, Baltimore, MA — Mar 2014
  - Meta-analytic framework for sparse K-means to identify disease subtypes in multiple transcriptomic studies.
- Poster, Dean's Day's competition, GSPH, University of Pittsburgh — Mar 2014
  - Meta-analytic framework for sparse K-means to identify disease subtypes in multiple transcriptomic studies.

CONFERENCE SERVICE

- ICSA, New Brunswick, NJ — June 2018
  - Chair for Session New developments in microbiome sequencing data modeling and analysis.
  - Chair for Session Modern Statistical Development for Biomedical Big data.

REVIEWER SERVICE

DEPARTMENT SERVICE

Statistical journal	Count
Journal of the American Statistical Association	1
Journal of the Royal Statistical Society Series C	1
Biometrics	2
Bioinformatics	1
BMC Bioinformatics	1
Statistics in Bioscience	1
Biological journal	
PLOS ONE	3
Scientific Reports	2
Journal of Alzheimer's Disease	3
Alzheimer's & Dementia Journal	1

- Member of PhD Qualifying Exam commitee *Jan 2018 ∼ Now*
  - Department of Biostatistics, University of Florida
- Director of the Biostatistics Consulting Lab *Sep 2017 ∼ June 2019*
  - Department of Biostatistics, University of Florida

PH.D. ADVISING

Committee member

Name	Department	Graduation Time	First position
Shaojun Zhang	Statistics, UF	July 2018	84.51°
Satyajit Ghosh	Statistics, UF	July 2018	postdoc at Rutgers University
Jalalli Peyman	Statistics, UF	April 2019	Wells Fargo
Eric Helm	Anatomy and Cell Biology, UF	Active	
Zhongkai Wang	Biostatistics, UF	Active	
Tamal Ghosh	Statistics, UF	Active	
Minji Lee	Statistics, UF	Active	
Ruoyang Zhang	Statistics, UF	Active	

MEMBERSHIP

- Member of International Chinese Statistical Association *Mar 2015 ∼ Now*
- Member of Eastern North American Region International Biometric Society *Oct 2013 ∼ Now*
- Member of American Statistical Association *Nov 2013 ∼ Now*

HOBBIES

Running, skiing, other endurance activities.

Running Record

Name	Location	Date
Five Points of Life Half Marathon	Gainesville, FL	02/16/2020
HITS half ironman	Sarasota, FL	01/05/2020
Santa Fe Century	Gainesville, FL	10/26/2019
Las Olas International Triathlon	Fort Lauderdale, FL	03/10/2019
Five Points of Life Half Marathon	Gainesville, FL	02/16/2019
The Southernmost Marathon	Key West, FL	10/06/2018
Dick's Sporting Goods Pittsburgh Half Marathon	Pittsburgh, PA	05/06/2018
Five Points of Life Race Marathon	Gainesville, FL	02/18/2018
Bank of America Chicago Marathon	Chicago, IL	10/09/2016
First National Bank Pittsburgh Triathlon (Sprint)	Pittsburgh, PA	08/14/2016
Dick's Sporting Goods Pittsburgh Marathon	Pittsburgh, PA	05/01/2016
First National Bank Pittsburgh Triathlon	Pittsburgh, PA	08/09/2015
Dick's Sporting Goods Pittsburgh Marathon	Pittsburgh, PA	05/03/2015
Dick's Sporting Goods Pittsburgh Marathon	Pittsburgh, PA	05/04/2014
Dick's Sporting Goods Pittsburgh Marathon	Pittsburgh, PA	05/05/2013