

# BAIMING ZOU

2004 Mowry Rd, CTRB5211  
Gainesville, FL 32611  
Phone: (352) 294 - 5934  
Email: bzou@phhp.ufl.edu

## EDUCATION

- Ph.D. Biostatistics, University of North Carolina – Chapel Hill (2013)
- M.S. Computer Science, University of Wisconsin – Madison (1999)
- M.A. Physics, University of Wisconsin – Madison (1999)
- B.S. Physics, Wuhan University – China (1989)

## PROFESSIONAL EXPERIENCE

- Research Assistant Professor (Department of Biostatistics, University of Florida: 2013 ~ present)
- Graduate Research Assistant (Department of Biostatistics, University of North Carolina – Chapel Hill: 2009 ~ 2013)
- Software Engineer (IBM: 2000 ~ 2009)

## RESEARCH INTERESTS

- Semi-parametric and Non-parametric Modeling
- Comparative Effectiveness Analysis of Big Data
- Clinical Trials
- Outcome Dependent Sampling
- High-dimensional Data Analysis

## RESEARCH SUPPORT

### Ongoing Research Support

R01AR071431 NIH/NIAMSD OA Pathogenesis beyond Cartilage: A preclinical study of the sources of OA pain Role: Co-Investigator	Allen (PI)	03/01/18 ~ 02/28/2023
1R01HD091658-01A1 NIH/NIDCD Mechanisms of airway protection dysfunction in Parkinsons disease Role: Co-Investigator	Hegland (PI)	09/01/17 ~ 08/31/2022
R01 FD005407 NIH/FDA Phase 3 Trial of DCA in PDC Deficiency IND028,625 Role: Co-Statistical PI	Stacpoole (PI)	06/01/16 ~ 05/31/2020

1R01GM114290-01 Tighe (PI) 07/01/15 ~ 06/30/2020  
 NIH/NIGMS  
 Finding Good TEMporal Postoperative Pain Signatures (TEMPOS)  
 Role: Co-Investigator

R01EY024564-01A1 Li (PI) 09/01/15 ~ 08/31/2020  
 NIH/NEI  
 Oral therapy for diabetic retinopathy using ACE2/Ang1-7 bioencapsulated in plant cells  
 Role: Co-Investigator

### Completed Research Support

UL1 TR000064 Nelson (PI) 07/14/09 ~ 04/30/2015  
 NIH/NCATS  
 University of Florida Clinical and Translational Science Award  
 Role: Biostatistician

1R21DC014567-01 Hegland (PI) 04/01/15 ~ 03/31/2017  
 NIH/NIDCD  
 Airway Protection Deficits According Stimulus Type In Parkinson's Disease  
 Role: Co-Investigator

### SELECTED PUBLICATIONS

J.W. Skinner, D.M. Otzel, A. Bowser, D. Nargi, S. Agarwal, M.D. Peterson, **B. Zou**, S.E. Borst, and J.F. Yarrow (2018). "Muscular responses to testosterone replacement vary by administration route: a systematic review and meta-analysis". *Journal of Cachexia, Sarcopenia and Muscle*, (accepted).

D.A. Fedele, D.M. Janicke, E.L. McQuaid, M. Abu-Hasan, D. Baker, **B. Zou**, M. Netz, and C. Lawless (2018). "A behavioral family intervention for children with overweight and asthma". *Clinical Practice in Pediatric Psychology*, (accepted).

J. Sikora, J. Gregory, A. George, S. Clayton, **B. Zou**, M. Robinson, F. Mukhtar, and J.P. Pelletier (2018). "Soluble antigens in plasma allow mismatched transfusion without hemolysis". *Transfusion*, (accepted).

**B. Zou**, J. Cai, G.G. Koch, H. Zhou, and F. Zou (2017). "A Model-Based Conditional Power Assessment for Decision Making in Randomized Controlled Trial Studies". *Statistics in Medicine*, 36(30): 4765~4776

P.W. Stacpoole, J. Shuster, J.L.P.S. Thompson, R.A. Prather, L.A. Lawson, **B. Zou**, R. Buchsbaum, and S.J. Nixon (2017). "Development of a novel observer reported outcome tool as the primary efficacy outcome measure for a rare disease randomized controlled trial". *Mitochondrion*,

J.L. Schaefer, Z.L. Lukowski, A.M. Meyer, A.J. Leoncavallo, A. Greer, G.M. Martorana, **B. Zou**, J.J. Shuster, M.B. Sherwood (2017). "Comparing Glaucomatous Disc Change Using Stereo Disc Viewing and the MatchedFlicker Software Program in Ophthalmologists in Training". *The British Journal of Ophthalmology*, 102(3): 358~363

J.G. Chen, **B. Zou**, J. Shuster (2017). "Relationship between Patient Satisfaction and Physician Characteristics". *Journal of Patient Experience*, 4(4): 177~184

**B. Zou**, F. Zou, J.J. Shuster, P.J. Tighe, G.G. Koch, and H. Zhou (2016). "On Variance Estimate for Covariate Adjustment By Propensity Score Analysis". *Statistics in Medicine*, 35(20): 3537~3548

M.J. Haller, S.E. Gitelman, P.A. Gottlieb, A.W. Michels, D.J. Perry, A.R. Schultz, M.A. Hulme, J.J. Shuster, **B. Zou**, C.H. Wasserfall, A.L. Posgai, C.E. Mathews, T.M. Brusko, M.A. Atkinson, D.A. Schatz (2016). “Antithymocyte Globulin Plus G-CSF Combination Therapy Leads to Sustained Immunomodulatory and Metabolic Effects in a Subset of Responders With Established Type 1 Diabetes”. *Diabetes*, 65(12): 3765~3775

A.M. Meyer, C.D. Rodgers, **B. Zou**, N.C. Rosenberg, A.D. Webel, M.B. Sherwood (2016). “Retrospective Comparison of Intermediate-term Efficacy of 350 mm<sup>2</sup> Glaucoma Drainage Implants and Medium-sized 230-250 mm<sup>2</sup> Implants”. *J Curr Glaucoma Pract*, 11(1): 8~15.

P.J. Tighe, C.D. King, **B. Zou**, R.B. Fillingim (2016). “Time to Onset of Sustained Postoperative Pain Relief (SuPPR): Evaluation of a New Systems-level Metric for Acute Pain Management”. *Clin J Pain*, 32(5):371~379

J.L. Schaefer, Z.L. Lukowski, A.M. Meyer, A.J. Leoncavallo, G.M. Martorana, **B. Zou**, J.J. Shuster, M.B. Sherwood (2016). “Comparing Glaucomatous Disc Change Using Stereo Disc Viewing and the MatchedFlicker Software Program in Ophthalmologists-in-Training”. *Am J Ophthalmol*, 167:88~95

A. Pawlowicz, C. Holland, **B. Zou**, T. Payton, J.A. Tyndall, B. Allen (2016). “Implementation of an evidence-based algorithm reduces blood culture overuse in an adult emergency department”. *Gen Int Med and Clin Innov*, 1(2):

**B. Zou**, B. Jin, G.G. Koch, H. Zhou, S.E. Borst, S. Menon, and J.J. Shuster (2015) . “On Model Selections for Repeated Measurement Data in Clinical Studies”. *Statistics in Medicine*, 34(10): 1621~1633

P.J. Tighe, L. Le-Wendling, A. Patel, **B. Zou**, R.B. Fillingim. (2015) “Clinically derived early postoperative pain trajectories differ by age, sex, and type of surgery”. *Pain*, 156(4): 609~617

M.J. Haller, S.E. Gitelman, P.A. Gottlieb, A.W. Michels, S.M. Rosenthal, J.J. Shuster, **B. Zou**, T.M. Brusko, M.A. Hulme, C.H. Wasserfall, C.E. Mathews, M.A. Atkinson, D.A. Schatz. (2015) “Anti-thymocyte globulin/G-CSF treatment preserves  $\beta$  cell function in patients with established type 1 diabetes”. *J Clin Invest.*, 125(1): 448~455.

L. Villanueva, T. McCabe, E.F. Egelund, **B. Zou**, V. Vijayan, and C. Peloquin. (2015) “Voriconazole Monitoring in Children with Invasive Fungal Infections”. *The Journal of Pediatric Pharmacology and Therapeutics*, 20(1): 17~23.

S.E. Borst, J.F. Yarrow, C. Fernandez, C.F. Conover, F. Ye, J.R. Meuleman, M. Morrow, **B. Zou**, and J.J. Shuster (2014). “Cognitive Effects of Testosterone and Finasteride Administration in Older Hypogonadal Men”. *Clinical Interventions in Aging*, 2014(9): 1327~1333.

L.A. Beggs, J.F. Yarrow, C.F. Conover, J.R. Meuleman, D.T. Beck, M. Morrow, **B. Zou**, J.J. Shuster, S.E. Borst (2014). “Testosterone Alters Iron Metabolism and Stimulates Red Blood Cell Production Independently of Dihydrotestosterone”. *Journals of the American Physiological Society*, 307(5): E456~461.

S.E. Borst, J.J. Shuster, **B. Zou**, F. Ye, H. Jia, A. Wokhlu, J.F. Yarrow (2014). “Cardiovascular Risks and Elevation of Serum DHT Vary by Route of Testosterone Administration: a Systematic Review and Meta-analysis”. *BMC Medicine*, 12:211: 1~16.

D. B. Peden, M. A. Adams, B. Harris, M. L. Hernandez, **B. Zou**, W. Reed, P. A. Bromberg, R. B. Devlin, D. Diaz-Sanchez, S. Kleeburger, H. Zhou, J. C. Lay, and N. E. Alexis (2011). “Enhancement of Systemic and Sputum Granulocyte Response to Inhaled Endotoxin in Persons with the GSTM1 Null Genotype”. *Occupational and Environmental Medicine*, 68: 783 ~ 785.

H. Zhou, **B. Zou**, M. Hazucha, and J. Carson (2011). “Nasal Nitric Oxide and Lifestyle Exposure to Tobacco Smoke”. *Annals of Otology, Rhinology & Laryngology*, 120: 455~459.

M. Hernandez, W.J Brickey, N.E. Alexis, R.C. Fry, J.E. Rager, **B. Zou**, J.P. Ting, H. Zhou, and D.B. Peden (2012). “Airway Cells from Atopic Asthmatic Patients Exposed to Ozone Display an Enhanced Innate Immune Gene Profile”. *J. Allergy Clin. Immunol*, 129: 259~261.

R.C. Fry, J.E. Rager, H. Zhou, **B. Zou**, W.J. Brickey, J.P. Ting, J.C. Lay, D.B. Peden, and N.E. Alexis (2012). “Individuals with Increased Inflammatory Response to Ozone Demonstrate Muted Signaling of Immune Cell Trafficking Pathways”. *Respiratory Research* 13(89): 1~11.

## HONORS

- Early Career Award (2015) Association of Clinical and Translational Statisticians

## STUDENT GUIDANCE

- Yang Wang (MS, Spring of 2017)
- Xiaoqing Fu (MS, Spring of 2018)
- Jiayue Zhang (MS, Spring of 2018)
- Zehao Yu (MS, Expected spring of 2019)
- Xiaoman Zhai (MS, Expected spring of 2019)
- Gerard Garvan (MS, Expected spring of 2019)

## PRESENTATIONS

- International Indian Statistical Association Conference (2018) (Invited)
- IMS-China Conference (2017) (Invited)
- IBS-China Conference (2016) (Invited)
- School of Mathematics and Statistics, Wuhan University, China (2016) (Invited)
- Dept. of Bios., School of Public Health, Fudan University, China (2016) (Invited)
- Association of Clinical and Translational Statisticians Annual Meeting (2015) (Invited)
- Joint Statistical Meetings (2014)
- Florida Chapter ASA (2014) (Invited)
- Joint Statistical Meetings (2013) (Invited)

## PROFESSIONAL REFEREE SERVICE

- Nature
- BMJ
- Statistics in Medicine
- PLOS ONE
- Pharmaceutical Statistics
- Journal of Biopharmaceutical Statistics
- Journal of Dental Research

**COURSE TEACHING**

- Design and Conduct of Clinical Trials I (Fall of 2014, 2015)
- Design and Conduct of Clinical Trials II (Spring of 2015)
- Applied Biostatistics I (Fall of 2016)
- Applied Survival Analysis (Fall of 2017)

**PROFESSIONAL SERVICES**

- University of Florida Clinical Study Compliance Committee (2014 ~ 2016)
- College of Public Health and Health Professional Collaboration Research Committee, University of Florida (2014 ~ 2015)
- Clinical Track Faculty Search Committee, Department of Biostatistics, University of Florida (2016 ~ Present)

**PROFESSIONAL AFFILIATIONS**

- American Statistical Association
- International Biometric Society
- Association of Clinical and Translational Statisticians

**COMPUTING SKILLS**

- R, SAS, C/C++, Java
- Parallel Computing
- Windows, Linux, Unix