

BIOGRAPHICAL SKETCH

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NAME: Beyl, Robbie

eRA COMMONS USER NAME (credential, e.g., agency login): beylra

POSITION TITLE: Assistant Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Southeastern Louisiana University, Hammond, Louisiana	BS	04/2006	Mathematics
Louisiana State University Health Science Center, New Orleans, Louisiana	MS	08/2008	Biostatistics
Louisiana State University Health Science Center, New Orleans, Louisiana	PHD	08/2013	Biostatistics

A. Personal Statement

Dr. Beyl's interests are in statistical consulting and educating the research community on the importance of statistics, particularly post-doctoral researchers and junior faculty through LA CaTS. Dr. Beyl's consulting focus is with public health related data, but he works with researchers across various fields. Statistical research interests include the development of statistical methods for the analysis of categorical data and the application of novel statistical techniques to the design, analysis and interpretation of data. Part of this research is in the area of test performance using accuracy of p-values.

B. Positions and Honors

Positions and Employment

2013 - Assistant Professor, Pennington Biomedical Research Center, Baton Rouge, LA

Other Experience and Professional Memberships

2013 - Member, American Statistical Association

2014 - Member, American Public Health Association

Honors

C. Contribution to Science

1. As a biostatistician at a biomedical research center, my goal is to assist researcher in the basic and clinical sciences with statistical analyses for diabetes and obesity research. I have partnered with postdocs and junior faculty to improve their usage of statistics.
 - a. White UA, Fitch MD, Beyl RA, Hellerstein MK, Ravussin E. Differences in in vivo cellular kinetics in abdominal and femoral subcutaneous adipose tissue in women. Diabetes. 2016 Mar 18;PubMed PMID: [26993068](#).
 - b. Staiano AE, Marker AM, Beyl RA, Hsia DS, Katzmarzyk PT, Newton RL. A randomized controlled trial of dance exergaming for exercise training in overweight and obese adolescent girls. Pediatr Obes. 2016 Feb 26;PubMed PMID: [26918815](#).
 - c. Stull AJ, Cash KC, Champagne CM, Gupta AK, Boston R, Beyl RA, Johnson WD, Cefalu WT.

Blueberries improve endothelial function, but not blood pressure, in adults with metabolic syndrome: a randomized, double-blind, placebo-controlled clinical trial. *Nutrients*. 2015 May 27;7(6):4107-23. PubMed PMID: [26024297](#); PubMed Central PMCID: [PMC4488775](#).

- d. Fuller S, Richard AJ, Ribnicky DM, Beyl R, Mynatt R, Stephens JM. St. John's Wort Has Metabolically Favorable Effects on Adipocytes In Vivo. *Evid Based Complement Alternat Med*. 2014;2014:862575. PubMed PMID: [25136373](#); PubMed Central PMCID: [PMC4054923](#).

2. Expand advanced statistical procedures, specifically focusing on variable selection, to research in public health and other related fields.

- a. Johnson WD, Burton JH, Beyl RA, Romer JE. A Simple Chi-Square Statistic for Testing Homogeneity of Zero-Inflated Distributions. *Open J Stat*. 2015 Oct;5(6):483-493. PubMed PMID: [26634181](#); PubMed Central PMCID: [PMC4664523](#).
- b. Johnson WD, Beyl RA, Burton JH, Johnson CM, Romer JE, Zhang L. Use of Pearson's Chi-Square for Testing Equality of Percentile Profiles across Multiple Populations. *Open J Stat*. 2015 Aug;5(5):412-420. PubMed PMID: [26279961](#); PubMed Central PMCID: [PMC4535814](#).
- c. Matthews-Ewald MR, Myers VH, Newton RL Jr, Beyl R, Waldo K, Dufour CM, Donato SG, Champagne CM, Church T, Ryan DH, Brantley PJ. Predictors for selection of insurance-funded weight loss approaches in individuals with severe obesity. *Obesity (Silver Spring)*. 2015 Jun;23(6):1151-8. PubMed PMID: [25959516](#); PubMed Central PMCID: [PMC4536570](#).
- d. Afonso AM, Diaz JH, Scher CS, Beyl RA, Nair SR, Kaye AD. Measuring determinants of career satisfaction of anesthesiologists: validation of a survey instrument. *J Clin Anesth*. 2013 Jun;25(4):289-95. PubMed PMID: [23664780](#).

D. Additional Information: Research Support and/or Scholastic Performance

Ongoing Research Support

W81XWH-09-1-0616 , DOD Stewart, T.M. (PI) 10/01/09-11/30/17

Weight Measurements and Standards for Soldiers, Phase II, RCT

This six year, Department of Defense grant will test the efficacy of an environmental and internet-based intervention at reducing the body mass and improving the fitness of National Guard Soldiers.

Role: KP

W81XWH-14-1-0335 , DOD Stewart, T.M (PI) 08/01/14-09/30/17

Weight Measurements and Standards for Soldiers, Phase III pilot

This three year, Department of Defense grant will test the efficacy of an intensive, technology, field-based intervention at reducing the body mass and improving the fitness of U.S. Soldiers & their family members.

Role: KP

RO1 MH094448-01, NIMH Stewart, T.M. (PI) 03/01/12-02/28/17

Healthy Weight Intervention in Female Athletes: A Randomized Controlled Trial

Co-PI: Becker, C.(Trinity University) This five year, multi-site project will investigate the efficacy of an eating disorder and obesity prevention program in female collegiate athletes.

Role: KP

U54 GM104940 , National Institute of General Medical Sciences of the National Institutes of Health

Cefalu, William T. (PI) 01/01/13-01/01/17

LA CaTS

The overarching objective is to transform the clinical and translational research efforts of our region towards a cohesive, mutually supportive enterprise. Dr. Beyl assists researchers across all institutions

involved in this grant with their statistical analyses.

Role: Faculty