

## Issa F. Zakeri, Ph.D.

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### I. GENERAL BIOGRAPHICAL INFORMATION

#### A. Education

University of Illinois at Urbana-Champaign	M.S. Mathematics	1984
University of Illinois at Urbana-Champaign (Advisor: Robert A. Wijsman)	Ph.D. Statistics	1987

#### B. Academic Appointments

2008- Associate Professor, Department of Epidemiology and Biostatistics, Drexel University

2006- Adjunct Faculty, Department of Statistics, Rice University

Previous position(s) at other institutions:

1982-1987	Teaching/Research Assistant, University of Illinois at Urbana-Champaign, Champaign, IL.
1987-1994	Assistant Professor, Department of Mathematics, University of Maryland, College Park, MD.
1992	Visiting Research Assistant Professor, Center for Stochastic Processes, Department of Statistics, University of North Carolina at Chapel Hill, Chapel Hill, NC.
1992-1994	Summer Quarters, Visiting Scholar, Department of Statistics, Stanford University, Stanford, CA.
1994-1996	Visiting Assistant Professor, Department of Statistics, University of North Carolina at Chapel Hill, Chapel Hill, NC.
1996-1997	Visiting Research Assistant Professor, Department of Statistics, University of North Carolina at Chapel Hill, Chapel Hill, NC.
1997-2000	Visiting Faculty, Department of Statistics, University of North Carolina at Chapel Hill, Chapel Hill, NC.
2001-2007	Assistant Professor of Pediatrics, Baylor College of Medicine

### II. RESEARCH INFORMATION

#### A. Research Support

ACTIVE

**Issa F. Zakeri**

Co-Investigator (PI: N. Butte) 12/01/05-11/30/09 20% time  
NIH 1 R01 DK074387-01 \$1,350,000  
Prediction of Energy Expenditure/Physical Activity in Children and Adolescents

Co-Investigator (PI: M. Lowe) 5/1/2009-4/31/2014  
NIH 1 R01 DK080909 \$356,424  
A Test of Nutritional Interventions to Enhance Weight Loss Maintenance

Co-Investigator (PI: E. Forman) 7/1/2009-6/30/2011  
NIH 1R21DK0804430 \$229,500  
Acceptance-based behavior treatment: An innovative control innovation

PENDING

1R01 DK085163 Butte (PI), Zakeri (PI on subcontract) 12/01/09- 11/30/13 4.2 calendar  
NIH \$1,646,133  
Novel Approaches to Predict Energy Expenditure & Physical Activity Levels in Preschoolers

P50 NOT-DC-08-003 Cowart (PI), Zakeri (PI on subcontract) 12/1/2009-11/30/2014 2.4 calendar  
Monell Chemical Senses Center-NIDCD  
Monell Chemosensory clinical Research Center

Co-Investigator (PI: M. Lowe) 10/1/2009-9/30/2014 1.2 calendar  
NIH U01 HL097893-01 \$906,042  
Weight Loss Maintenance: Re-conceptualizing the behavioral treatment of obesity

Co-Investigator (PI: M. Lowe) 12/01/2009-11/30/2013 .6 calendar  
NIH R01 RFA-DK-08-009 \$123,807  
Brain Processes Associate with Weight Gain Proneness: A BOLD & ASL fMRI Study

COMPLETED GRANTS

Principal Investigator (PI: I. Zakeri) 10/01/04-11/30/07  
USDA ARS 6520-51000-047 \$125,307  
Statistical Analysis of Food Purchase Data

Co-Investigator (PI: T. Baranowski) 07/01-/05-06/30/09  
NIH-NCI 1 R01 CA 116766 \$1,819,870  
PROP Sensitivity and Obesity among Ethnic Children

Co-Investigator (PI: T. Nicklas) 04/15/05-03/31/08  
NIH NCI 1 R01 CA107545 \$1,473,554  
Predictors of Children's Portion Sizes and Mealtime Intake

Co-Investigator on Subcontract (PI: R. Buday /T .Baranowski) 07/01/04-06/30/09  
NIH-NIDDK SBIR PHASE II 1 U44 DK066724 \$500,060  
Computer-based Intervention for Type 2 Diabetes in Youth

Co-investigator (PI: T. Baranowski) 08/10/2007-07/31/2011  
1U01CA130762-01 \$2,247,771  
Food Intake Recording Software System: Version 4  
The goal of this grant is to develop a computerized method for conducting 24 hour dietary recalls with children that will be approximately the quality of 24 hour dietary recalls conducted by dietitians, but

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much lower cost per recall.

Co-Investigator (PI: T. Baranowski) NIH-NIDDK 1 U01 DK061231 Middle School Prevention of Type 2 Diabetes	03/15/03-02/28/08 \$620,210	
Co-Investigator (PI: J. Fisher) NIH NIDDK 1 R01 DK071095 Intake Promoting Effects of Large Portions in Children	01/10/05-01/09/10 \$1,458,000	
Co-investigator (PI: J. Fisher) USDA NRI 2006-55215-16694 Determination of Young Children's Self-Served Portion Sizes	01/01/06-01/01/10 \$1,107,387	
Co-investigator (PI: K. Cullen) NIH 1R21HD051661-01A1 Exploring Strategies to Increase School Breakfast Consumption in Middle Schools	09/01/2006-08/2008 \$371,250	
Co-Investigator (PI: K. Cullen) USDA-NRI Integrated Program (grant) 2004-35215-14225 A ground level weight management approach: Creating healthy home eating environments	02/2004-01/2008 \$747,500	
Co-Investigator (PI: K. Cullen) USDA-NRI Integrated Program (grant) An Interactive Web-Based Program to Improve Food and Activity Choices of High School Students	3/15/07-3/14/11 \$1,453,333	
Co-investigator (PI: D. Thompson) NIH NICHD 1 R01 HD050585 Squire's Quest! II: Implementation intentions & Children's FJV Consumption	05/01/07 – 04/30/2011 \$2,485,497	
Co-Project Director (PI: T. Nicklas) Dairy Management, Inc/National Dairy Council Dietary Calcium Intake and Dairy Product Consumption by Minority Mothers: Nutritional Impact and Health Outcomes.	01/01/08-12/31/07 \$46,252	
Co-Investigator (PI: T. Nicklas) NIH-NCI 1 R21 CA107010-01A1 Getting a Head Start on Healthier Eating Habits	12/01/04-11/30/06 \$247,373	
Co-Investigator (PI: K. Cullen) USDA-ERS Evaluation of School Policy Change on Middle School Student Lunch Consumption	10/2005-10/2006 \$149,085	
Co-Investigator (PI: T. Nicklas) USDA ERS Eating Patterns and Dietary Quality in Young Adults		2003-2005
Co-Investigator (PI: D. Thompson) NIH-NCI R21 CA 102470 Dual Code Theory and Youth Physical Activity Self Efficacy		09/01/03-08/31/05
Co-Investigator on Subcontract (PI: R. Buday) NIH-NIDDK SBIR PHASE I 1 U44 DK066724-01		07/2003-06/2004

Computer-based Intervention for Type 2 Diabetes in Youth

Co-Investigator (PI: T. Baranowski) 07/01/01-06/30/04  
American Cancer Society TURSG 01-225-01-PBP  
Multicultural 5 A Day and Activity Boy Scout Badges

Co-Investigator (PI: T. Baranowski) 07/01/01-06/30/03  
NIH-NCI 1 R21 CA092045  
Home Fruit, Juice and Vegetable Availability: Theory and Measurement

Co-Investigator (PI: T. Baranowski) 08/01/99-11/30/02  
National Heart, Lung and Blood Institute U01 HL 065160  
Obesity Prevention among African-American Girls

Co-Investigator (PI: T. Nicklas) 2003-2005  
(Subcontract) UAB NIH NCI  
Fruit and Vegetable Intake Issues in Head Start Families

Co-Investigator (PI: T. Nicklas) 01/02/02-31/01/05  
R21 CA091475  
Food Preference of Ethnic Minority Preschoolers

Co-Investigator (PI: T. Baranowski) 10/01/04-09/30/05  
USDA ARS 6250-51000-038  
Influences on and methods of changing children's diet and physical activity

Statistician (PI: T. Nicklas) 2004-2005  
National Cattleman's Beef Association  
Contribution of Meat Products to the overall Quality, Adequacy of Dietary Intakes & Health Outcomes in Children & Young Adults

Co-Investigator (PI: D. Thompson) 07/01/03-02/28/05  
Robert Wood Johnson Foundation  
Factors influencing log-on rates in an eHealth obesity prevention program promoting healthy eating and physical activity to 8-10 year old African American girls

Co-Investigator (PI: R. Jago) 11/01/03-10/31/05  
Robert Wood Johnson Foundation  
Moderating effect of environment on adolescent physical activity change

Co-Investigator (R. Leadbetter) 1999  
Office of Naval Research Grant N00014931 D043  
Structural Safety of Vessels in High Seas

Co-Investigator (PI: S. Cambanis) 1994-1996  
National Science Foundation and Air Force Office of Scientific Research F49620  
Stable Random Processes

National Science Foundation Travel Grant 1989

University of Maryland, College Park, Research Award 1988

**B. Scientific Participation**

1. Reviewed Manuscripts for:

Annals of Statistics  
Annals of Applied Probability  
Annals of Institute of Statistical Mathematics  
Australian and New Zealand Journal of Statistics  
European Journal of Clinical Nutrition  
IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews  
Korean Society of Mathematical Education  
Journal of Applied Physiology  
Journal of Multivariate Analysis  
Journal of Statistical Planning and Inference  
Mathematical Methods of Statistics  
Obesity Research  
Medicine & Science in Sports & Exercise  
Scandinavian Journal of Statistics  
Stochastic Processes and their applications

2. Review panels

National Science Foundation, Reviewer of Proposals 1991-2000  
Mathematical Reviews, Reviewer 1996-present

3. Professional societies

American Statistical Association  
Bernoulli Society  
Institute for Mathematical Statistics  
International Biometric Society

4. Selected presentations, research seminars

1. IMS Annual Meeting, August 1989
2. Invited participant at the American Mathematical Society and Institute of Mathematical Statistics conference on "Sequential search and selection in real time"; University of Massachusetts at Amherst, Massachusetts, June 1990.
3. Invited participant at the American Mathematical Society, Institute of mathematical Statistics and Society for Industrial and Applied Mathematics on "Multivariate time series", University of Washington, Seattle, June 1991.
4. Invited participant at the workshop on "Non-stationary random processes and their applications", Hampton, VA, August 1991.
5. University of South Carolina, Columbia, Department of Statistics, February 1992
6. Stanford University, Department of statistics, July 1992
7. 2<sup>nd</sup> International Symposium: Probability and Applications, Bloomington, Indiana, March 1993
8. Invited participant at the Institute of Mathematical Statistics workshop on "Directions in sequential analysis", June 1994
9. University on North Carolina, Department of Statistics, November 1994
10. University of Oklahoma, Department of Biostatistics and Epidemiology, August 2000
11. Rice University, Department of Statistics, January 2002
12. University of Texas at Dallas, Department of Mathematical Sciences, April 2006
13. International Conference on "Recent Advances and Controversies in the Measurement of Energy Metabolism", University of Colorado, February 2008.

### C. Research Interests:

Time Series Analysis  
Longitudinal Data Analysis  
Multivariate Statistical Analysis  
Sequential Analysis  
Stochastic Modeling  
Applications of Statistics to Behavioral, Biological, and Medical Sciences

### D. PUBLICATIONS

#### PUBLISHED IN REFERREED JOURNALS

1. **Fakhre-Zakeri I.** Sequential confidence sets with beta-protection in multiparameter families. *Sequential Analysis*, 1989, 1:1-26.
2. **Fakhre-Zakeri I.** Sequential confidence sets with guaranteed coverage probability and beta protection. *Journal of Multivariate Analysis*. 1990, 33:89-105.
3. **Fakhre-Zakeri I**, Lee S. Sequential estimation of the mean of a linear process. *Sequential Analysis*, 1992, 11:181-197.
4. **Fakhre-Zakeri I**, Slud E. Models of empirical-Bayes type for software testing. University of Maryland, Department of Mathematics, Technical Report MD 92-12. 1992.
5. **Fakhre-Zakeri I**, Lee S. Sequential estimation of the mean vector of a multivariate linear process. *Journal of Multivariate Analysis*, 1993, 47:196-209.
6. **Fakhre-Zakeri I**, Farshidi J. A central limit theorem with random indices for stationary linear processes. *Statistics and Probability Letters*, 1993, 17:91-95.
7. Cambanis S, **Fakhre-Zakeri I.** On prediction of heavy-tailed autoregressive sequences: Forward versus reversed time. *Theory of Probability and its Applications*, 1994, 39:217-233.
8. **Fakhre-Zakeri I**, Slud E. Mixture models for reliability of software with imperfect debugging: Identifiability of Parameters. *IEEE Trans. Reliability*. 1995, 44:104-113.
9. Cambanis S, **Fakhre-Zakeri I.** Forward and reversed time prediction of autoregressive sequences. *Journal of Applied Probability*, 1996, 33:1053-1060.
10. **Fakhre-Zakeri I**, Slud E. Optimal stopping of sequential size-dependent search. *The Annals of Statistics*, 1996, 24:2215-2232.
11. **Fakhre-Zakeri I**, Farshidi J. Limit theorems for sample covariances of stationary linear processes with applications to sequential estimation. *Statistics*, 1997, 29:251-260.
12. **Fakhre-Zakeri I**, Lee S. A random functional central limit theorem for stationary linear processes generated by martingales. *Statistics and Probability Letters*, 1997, 35:417-422.
13. **Fakhre-Zakeri I**, Lee S. On functional limit theorems for multivariate linear processes with

- applications to sequential estimation. *Journal of Statistical Planning and Inference*, 2000, 83(1):11-23.
14. Nicklas TA, Demory-Luce D, Yang S-J, Baranowski T, **Zakeri I**, Berenson G. Children's food consumption patterns have changed over two decades: The Bogalusa Heart Study. *Nutrition Week 2002*, San Diego, February 26, 2002, *Am J Clin Nutr*, 2002, 75: 4065.
  15. Baranowski T, Baranowski J, Cullen KW, Marsh T, Islam N, **Zakeri I**, Honess-Moreale L, deMoor C. Squire's Quest! Dietary Outcome Evaluation of a Multimedia Game. *American Journal of Preventive Medicine*, 2003, 24:52-61.
  16. Baranowski T, Baranowski J, Cullen K, Thompson D, Nicklas T, **Zakeri I**, Rochon J. The Fun, Food, and Fitness Project (FFFP): The Baylor GEMS Pilot Study. *Ethnicity & Disease*, 2003, 13:S1-30–S1-39.
  17. Nicklas T, Yang SJ, Baranowski T, **Zakeri I**, Berenson G. Eating patterns and obesity in children: The Bogalusa Heart Study. *American Journal of Preventive Medicine* 2003, 25 (1):9-16.
  18. Nicklas TA, Yang S-J, Baranowski T, **Zakeri I**, Berenson G. Association of meal patterns and obesity in children: A cross-sectional analysis of The Bogalusa Heart Study. *American Journal of Preventive Medicine* 2003;25:9-16.
  19. Baranowski T, Baranowski J, Cullen KW, Thompson DI, Nicklas T, **Zakeri I**, Rochon J. The Fun, Food and Fitness Project (FFFP): The Baylor GEMS Pilot Study. *Ethnicity & Disease* 2003;13:S1-30-39.
  20. Nicklas TA, Demory-Luce D, Yang S-J, Baranowski T, **Zakeri I**, Berenson G. Children's food consumption patterns have changed over two decades (1973-1994): The Bogalusa Heart Study. *Journal of the American Dietetic Association*. 2004;104:1127-40.
  21. Demory-Luce D, Morale M, Nicklas T, Baranowski T, **Zakeri I**, Berenson G. Changes in food group consumption patterns from childhood to young adulthood: The Bogalusa Heart Study. *Journal of the American Dietetic Association*. 2004: 1684-91.
  22. Cullen KW, **Zakeri I**, Pryor EW, Baranowski T, Baranowski J. Goal setting is differentially related to change in fruit, juice & vegetable consumption among 4th grade children. *Health Education and Behavior* 2004; 31(2): 258-269.
  23. Cullen KW, **Zakeri I**. Children's Lunch Consumption of Fruit, Vegetables, Milk, and Sweetened Beverages Changes with Access to Ala Carte/Snack Bar School Meals. *American Journal of Public Health* 2004;94: 463-67.
  24. Yoo S, Nicklas T, Baranowski T, **Zakeri I**, Yang S-J, Srinivasan SR, Berenson GS. Comparison of dietary intakes associated with metabolic syndrome risk factors in young adults: The Bogalusa Heart Study. *American Journal of Clinical Nutrition* 2004, 80: 841-8.
  25. Jago R, Baranowski T, Yoo S, Cullen K, **Zakeri I**, Watson K, Himes J, Pratt C, Sun W, Pruitt LA, and Matheson DM. Relationship between physical activity and diet among African-American girls. *Obesity Research* 2004, 12:56S-63S.
  26. Puyau MR, Adolph AL, Vohra FA, **Zakeri I**, Butte NF. Prediction of energy expenditure and physical activity level using accelerometers in children. *Medicine and Science and Exercise*

2004, 36:1625-1631.

27. Cullen KW, **Zakeri I**. The Youth and Adolescent Questionnaire has low validity with African- and Mexican-American 7th and 8th grade students. *Journal of the American Dietetic Association* 2004; Sept. 104(9): 1415-9.
28. Cullen KW, Baranowski T, Klesges L, Watson K, Sherwood N, Story M, **Zakeri I**, Leachman-Slawson D, Pratt C. Anthropometric, parental and psychosocial correlates of dietary intake of African-American girls. *Obesity Research*, 2004, 12:20S-31S.
29. Thompson D, Jago R, Baranowski T, Watson K, **Zakeri I**, Cullen KW, Story M, Sherwood N, Pruitt LA, Matheson DM. Covariability in diet and physical activity in African American girls. *Obesity Research*, 2004, 12:46S-54S.
30. Jago R, Baranowski T, Watson K, Baranowski J, **Zakeri I**. Relationships between maternal and child cardiovascular risk factors: Ethnic Differences and Lack of Influence of Physical Activity. *Archives of Pediatric & Adolescent Medicine* 2004, 158: 1125-1131.
31. Jago R, Nicklas T, Yang S, Baranowski T, **Zakeri I**, Berenson G. Physical activity and health enhancing dietary behaviors in young adults: Bogalusa Heart Study. *Preventive Medicine*. 2005; 41: 194-202.
32. Cullen KW, Watson K, Baranowski T, Baranowski J, **Zakeri I**. Squire's Quest! Intervention changes occurred at Lunch and Snack Meals. *Appetite*. 2004; 45: 148-151.
33. Jago R, Baranowski T, **Zakeri I**, Harris M. Observed environmental features and the physical activity of adolescent male. *American Journal of Preventive Medicine*. 2005; 29: 98-104.
34. Jago R, Baranowski T, Watson K, **Zakeri I**, Yoo S, Baranowski J, Conry K. Pedometer reliability, validity and daily activity targets among 10-15 year old boys. *Journal of Sport Sciences*. 2005; 24:241-251.
35. Deshmukh-Taskar P, Nicklas TA, Morales M, Yang S-J, **Zakeri I**, Berenson GS. Tracking of overweight status from childhood to young adulthood: the Bogalusa Heart Study. *European Journal of Clinical Nutrition*. 2006; 60: 48-57.
36. Yoo S, Baranowski T, Missaghian M, Baranowski J, Cullen KW, Fisher JO, Watson K, **Zakeri I**. Food-purchasing patterns by parents for fruit and vegetables for home. *Public Health Nutrition*. 2006; 384-393.
37. **Zakeri I**, Puyau MR, Adolph AL, Vohra FA, Butte N. Normalization of energy expenditure data for differences in body mass or composition in children and adolescents. *The Journal of Nutrition*. 2006; 136:1371-1376.
38. Thompson D, Canada A, Bhatt R, Davis J, Plesko L, Baranowski T, Cullen K, and **Zakeri I**. eHealth Recruitment challenges. *Evaluation and Program Planning*. 2006; 29 : 433-440.
39. Cullen KW, Watson K, **Zakeri I**, Ralston K. Exploring changes on middle school student lunch consumption after local school food service policy modifications. *Public Health Nutrition*. 2006; 9: 814-820.
40. Jago R, **Zakeri I**, Baranowski T, Watson K. Decision boundaries and receiver operating characteristic curves: New methods for determining accelerometer cutpoints. *Journal of Sport*

Sciences. 2007, 25(8); 937-944.

41. Thompson V, Cullen KW, Watson K, Zakeri. The increased availability and marketing of fruit, juice and vegetable to middle school students increases consumption. *The Journal of Child nutrition & Management*. 2007; 31(1): 1-6.
42. Thompson D, Baranowski T, Cullen K, Watson K, Canada A, Bhatt R, Liu Y, and **Zakeri I**. Food, Fun, and Fitness Internet Program for Girls: Influencing Log-on Rate. *Health Education Research*, June 25, 2007.
43. Cullen KW, Watson K, **Zakeri I**, Baranowski T, Baranowski J. Achieving fruit, juice, and vegetable recipe preparation goals influences consumption by 4<sup>th</sup> grade students. *International Journal of Behavioral Nutrition and Physical Activity*. 2007; 4:28, pp. 1-7.
44. Butte N, Cai G, Cole S, Fisher J, **Zakeri I**, Ellis K, Comuzzie. Metabolic and behavioral predictors of weight gain in Hispanic Children: the VIVA LA FAMILIA study. *The American Journal of Clinical Nutrition*. 2007; 85: 1478-85.
45. Butte N, Puyau MR, Adolph AL, Vohra FA, **Zakeri I**. Physical activity in non-overweight and overweight Hispanic children and adolescents. *Medicine & Science in Sports & Exercise*. 2007; 39(8): 1257-1266.
46. Butte N, Puyau M, Vohra F, Adolph A, Mehta N, **Zakeri I**. Body size, body composition and metabolic profile explain higher energy expenditure in overweight children. *The Journal of Nutrition*. 2007; 137:2660-2667.
47. Cullen KW, Watson K, **Zakeri I**. Relative reliability and validity of the block kids questionnaire among youth aged 10 to 17 years. *Journal of American dietetic association* 2008; 108 (5): 862-866.
48. Cullen KW, Watson K, **Zakeri I**. Improvements in middle school student dietary intake after implementation of the Texas public school nutrition policy. *American Journal of Public Health*. 2008; 98:111-117.
49. Thompson D, Baranowski T, Cullen K, Watson K, Liu y, Canada A, Bhatt R, **Zakeri I**. Food, fun, and fitness internet program for girls: pilot evaluation of an e-health youth obesity prevention program examining predictors of obesity. *Prevention Medicine*. 2008; 47: 494-497.
50. Nicklas, TA, O'Neil CE, Mendoza J, Liu Y, **Zakeri I**, Berenson GS. Are Energy Dense Diets Nutrient Dense? *J. Am. Coll. Nutr.* 2008; 27:553-560.
51. **Zakeri I**, Adolph A, Puyau MR, Butte N. Prediction of Energy Expenditure from Heart Rate and Physical Activity in Children and Adolescents using Cross-Sectional Time Series Modeling. *Journal of Applied Physiology* 2008; 104(6): 1665-1673.
52. **Zakeri I**, Adolph A, Puyau MR, Vohra FA, Butte N. Multivariate Adaptive Regression Splines (MARS) Models for the Prediction of Energy Expenditure in Children and Adolescents. *Journal of Applied Physiology*. 2009 (to appear).

SUBMITTED

1. Butte N, Puyau M, Vohra F, Adolph A, Mehta N, **Zakeri I**. Total energy expenditure and substrate utilization in overweight and non-overweight Hispanic children.
2. Cullen KW, Ralston K, Watson K, **Zakeri I**. Evaluation of Policy Changes on Middle School Student Lunch Consumption.
3. Thompson D, Baranowski T, Cullen K, Watson K, Canada A, Bhatt R, Liu Y, and **Zakeri I**. Food, Fun, and Fitness Internet Program for 8-10 Year Old African American Girls: Relationship between Goal Setting and Behavior Change. *American Journal of Preventive Medicine*.
4. Thompson D, Baranowski T, Watson K, Missaghian M, Yoo S, **Zakeri I**, Cullen K, Nicklas T. Relationship between BMI and Home Food Purchasing Patterns and Practices in Multi-ethnic Sample of Adults. *J. Am Diet Assoc*.

### ABSTRACTS GIVEN

1. Nicklas TA, Demory-Luce D, Yang S, Baranowski T, **Zakeri I**, Berenson G. *Children's Food Consumption Patterns Have Changed Over Two Decades: The Bogalusa Heart Study*. The First Annual Nutrition Week, San Diego, California, February 23 – February 27, 2002.
2. Ayars C, Nicklas T, Baranowski T, Haymond M, **Zakeri I**, Berenson G. *Pediatric Insulin Sensitivity: Are Serum Lipids Temporally Related? The Bogalusa Heart Study*. FASEB Experimental Biology 2002: Meeting Abstracts, New Orleans, Louisiana. Published in the March 2002 FASEB Journal, 16(4):472.6.
3. Nicklas TA, Demory-Luce D, Yang SJ, Baranowski T, **Zakeri I**, Berenson G. *Are Children Consuming More Food Today than Yesterday?* FASEB Experimental Biology 2002: Meeting Abstracts, New Orleans, Louisiana. Published in the March 2002 FASEB Journal, 16(4):494.16.
4. Morales M, Nicklas TA, Demory-Luce D, **Zakeri I**, Baranowski T. *Are Eating Habits of Children Consistent with Those Later in Life?* FASEB Experimental Biology 2002: Meeting Abstracts, New Orleans, Louisiana. Published in the March 2002 FASEB Journal, 16(4):494.15.
5. Morales M, Demory-Luce D, Nicklas T, Baranowski T, **Zakeri I**. *Consistency in Food Group Consumption Patterns from Childhood to Young Adulthood: The Bogalusa Heart Study*. International Society of Behavioral Nutrition and Physical Activity First Annual Meeting: Beyond the Cutting Edge, Seattle, Washington, July 12, 2002.
6. Yang SJ, Nicklas TA, **Zakeri IF**, Baranowski T. *The Association between Eating Patterns and Overweight Status in Childhood*. FASEB Experimental Biology 2003: Meeting Abstracts, San Diego, California. Published in the 2003 FASEB Journal, No. 187.8.
7. Yoo, S, Nicklas T, Baranowski T, **Zakeri I**, Yang S, Srinivasan SR, Berenson GS. *Dietary Intakes among Young Adults with Different Numbers of Metabolic Syndrome Risk Factors: The Bogalusa Heart Study*. Society for Epidemiologic Research 2003 Meeting, Atlanta, Georgia, June 11-14, 2003. Published in the June 2003 supplement of the American Journal of Epidemiology.
8. Yoo, S, Nicklas T, Baranowski T, **Zakeri I**, Yang S, Srinivasan SR, Berenson GS. *Is Diet Related to the Clustering of Risk Factors for Metabolic Syndrome? The Bogalusa Heart Study*. Society for Epidemiologic Research 2003 Meeting, Atlanta, Georgia, June 11-14, 2003. Published in the June 2003 supplement of the American Journal of Epidemiology.

9. Thompson D, Baranowski T, Cullen K, Watson K, and **Zakeri I**. *Relationship between home food purchasing patterns and BMI in a multi-ethnic sample*. *Annals of Behavioral Medicine*, 2004, 26 (2004 supplement).
10. Jago R, Baranowski T, **Zakeri I**, Harris M, Watson K. *Moderating effect of the environment on adolescent physical activity change*. Abstract for the 2004 Annual meeting of Active Living Research, Del Mar California, January 30-31 2004.
11. Jago R, Baranowski T, **Zakeri I**, Harris M. *Observed environmental features and the physical activity of adolescent males*. Presented at the second meeting of Active Living Research. Coronado, San Diego Feb 26th 2005.
12. **Zakeri I**, Adolph A, Puyau M, Vohra F, Butte N. Prediction of Energy Expenditure from Heart Rate and Physical Activity in Children and Adolescents using Cross-Sectional Time Series Modeling. NAASO Meeting Abstract, New Orleans, LA, Oct. 20-24, 2007.
13. **Zakeri I**, Adolph A, Puyau M, Vohra F, Butte N. Prediction of Energy Expenditure from Heart Rate and Accelerometry in Children and Adolescents using Multivariate Adaptive Regression Splines Modeling. The Obesity Society's 2009 Annual Scientific Meeting, Washington DC.

#### STUDENT SUPERVISION

1. Kaiyuan Chin, Masters, University of Maryland, College Park, Fall 1990.
2. Jung Hyun Kim, Masters, University of Maryland, College Park, Spring 1991.
3. Ruth Pfeiffer, Masters, University of Maryland, College Park, Fall 1993.
4. Ehasuyi Obasohan, MPH, Drexel University, Spring 2008.
5. Heidi Ochs, MPH, Drexel University, Spring 2008.

#### STUDENT COMMITTEE SERVICES

1. Robert C. Smucker, Masters, 1988.
2. Meihui Guo, Ph.D., 1989.
3. Sy-Mien Chen, Ph.D., 1990.
4. William E. Potts, Masters, 1990.
5. Kewen Yin, Ph.D., 1991.
6. Sangyeol Lee, Ph.D., 1991.
7. Alexandros Karagrigorio, Ph.D., 1992.
8. Pablo Zafra, Ph.D., 1992.
9. Jesse Chittams, Masters, 1993.
10. Jian-Lun Xu, Ph.D., 1993.

#### MENTORING

1. Candace Ayars, Ph.D.
2. Russell Jago, Ph.D.
3. Sangyeol Lee, Ph.D.
4. Yan Lui, MS
5. Jason A. Mendoza, MD, MPH
6. Miriam M. Morales, MS
7. Ruangvith Tantibhaedhyangkul, MD
8. Deborah I. Thompson, Ph.D.
9. Kathleen B. Watson, MS

10. Su-Jau Yang, Ph.D.

### III. TEACHING INFORMATION

University of Maryland, Department of Mathematics  
University of North Carolina, Department of Statistics  
Stanford University, Department of Statistics  
Rice University, Department of Statistics  
Drexel University, Department of Epidemiology and Biostatistics

### UNDERGRADUATE COURSES

Statistics and Data Analysis; Text: Statistics, Principle and Method (1992), R. Johnson and G.K. Bhattacharyya

Probability and Statistics; Text: Statistics for Business and Economics (1994), J.T.McClave and P.G.Benson

Introduction to Biostatistics; Text: Fundamental of Biostatistics (1990), B. Rosner

### ADVANCED UNDERGRADUATE COURSES

Mathematical Statistics; Text: Introduction to Statistical Theory (1971), Hoel, Port and Stone

Introduction to Mathematical Statistics; Text: Introduction to Mathematical Statistics (1978), R. Hogg and A. Craig

Statistical Method II; Text: Applied Linear Statistical Methods (1996), Neter, Kunter, Nachtsheim and Wasserman

Introduction Probability Theory; Text: A First Course in Probability (1998)S. Ross

Introduction to Probability Theory: Text: Probability (1993), J. Pitman

Regression and Analysis of Variance; Text: Applied Regression Analysis (1981), N. Draper and H. Smith

Statistical Methods in Engineering and Physical Sciences; Text: Statistics for Engineering and Sciences (1992), Mendenhall and Sinich

### GRADUATE COURSES

Mathematical Statistics I and II; Text: 1) An Introduction to Probability Theory and Mathematical Statistics (1978), V.K. Rohatgi 2) Theory of Point Estimation(1983), E.L.Lehmann 3) Testing Statistical Hypotheses (1986), E.L. Lehmann

Multivariate Analysis; Text: An Introduction to Multivariate Statistical Analysis (1984), T.W. Anderson

Sequential Analysis; Text: 1) Sequential Analysis: Tests and Confidence Intervals (1985), D. Siegmund 2) Nonlinear Renewal Theory in Sequential Analysis (1982), M. Woodroffe

Stochastic Processes: Text: A First Course in Stochastic Processes (1975), S. Karlin and H. Taylor

Probability; Text: Probability and Measure (1986), P. Billingsley

Nonparametric Statistics; Text: 1) Introduction to the Theory of Nonparametric Statistics (1979), R. Randels and D. Wolfe 2) Approximation Theorems of Mathematical Statistics (1980), R.J. Serfling

Analysis of Variance; Text: The Analysis of Variance (1959), H. Scheffe

Advanced Topics in Time Series, Fall 2004 (joint with Professors Dennis Cox and Katherine Ensor)

Advanced Topics in Time Series, Fall 2006 (joint with Professors Katherine Ensor and Rodolf Riedi)

Biostatistics Theory I and II; Text: 1) Mathematical Statistics and Data Analysis (2007), John A. Rice 2) Statistical Inference (2002), George Casella and Roger L. Berger.