

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Popkin, Barry M.	POSITION TITLE Professor of Nutrition		
eRA COMMONS USER NAME barry_popkin			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Wisconsin-Madison	B.S.	1967	Economics
University of Pennsylvania-Philadelphia		1967-68	Economics/Demography
University of Wisconsin-Madison	M.S.	1969	Economics
Cornell University, Ithaca, NY	Ph.D.	1974	Agricultural Economics

A. Personal Statement

Please customize for Amanda Thompson's K01, Environmental Change and Inflammation: Age, Cohort and Household Effects in China.

I designed the initial China Health and Nutrition Survey with other colleagues and have been PI of this as I shepherded it through first a Program Project, several R01s funded jointly with work in Russia, and more recently R01HD030880-17 "Monitoring Social Change: Health, Reproduction, Aging." I conceptualized the sociodemographic, behavioral and biological focus and more recently worked to convince NICHD to provide significant funding to allow us to collect and create a massive biomarker data set. Trained as a human resource economist, Director of the UNC Interdisciplinary Obesity Program and Carla Smith Chamblee Distinguished Professor of Global Nutrition, I have considerable expertise in nutrition and obesity. I have a very strong track record of working with young scholars in close intensive ways to help them move forward their research careers. I am highly qualified to contribute to research related to the central aims of the study, particularly in the areas of China, measurement of individual dietary and other behaviors, household and contextual measurement and overall modeling and implementation of her research agenda. I do not have expertise on biology of inflammation and have done only minimal writing on this topic. My development of theory of the nutrition transition and my long history of in-depth research in the interface of demography, economics, nutrition and broader biomedical and social science concerns are internationally recognized, with over 7700 citations by other scholars to date of my research, which places me in the top 4-5 nutrition scholars in the US in terms of citations. My leadership and innovation have been demonstrated by my establishment of a number of longitudinal survey systems across the world, measuring multilevel detailed economic, demographic and biomedical concerns at the community, household and individual levels from the late 1970s onward when concepts such as multilevel modeling were not even in vogue, but the need to create instruments, causality and other relationships at all levels was clear to me. On the proposed project, my role will focus through biweekly or monthly lunches in building her understanding of professional development and also meeting with Dr. Thompson as needed to help with her modeling, data base development, and also all dietary work.

B. Positions and Honors

Positions and Employment

- 1974-76 Associate Professor, School of Economics, University of Philippines; special field staff, Rockefeller Foundation
- 1977-81 Assistant Professor, School of Public Health (SPH), University of North Carolina at Chapel Hill (UNC-CH)
- 1978- Fellow, Carolina Population Center, UNC-CH
- 1981-86 Associate Professor with tenure, SPH, UNC-CH
- 1986- Professor, Department of Nutrition; Director, Division of Nutrition Epidemiology, SPH, UNC-CH
- 1992- Director, The Nutrition Transition Research Program
- 2002- Adjunct Professor, Department of Economics
- 2004 Director, UNC-CH Interdisciplinary Obesity Center (IDOC)
- 2006 Named The Carla Smith Chamblee Distinguished Professor of Global Nutrition

Honors

- 1998 Society for International Nutrition Research Kellogg Prize for outstanding international nutrition research
- 2008-09 EV McCollum International Lectureship, International Congress of Nutrition, Bangkok 2009

C. Selected Peer-reviewed Publications (chronological order, from over 350 refereed journal articles)

1. Monda KL, Adair LS, Zhai F, Popkin BM. Longitudinal Relationships between Occupational and Domestic Physical Activity Patterns and Body Weight in China. *European Journal of Clinical Nutrition*. 2008;62:1318-25.
2. Ng SW, Zhai F, Popkin BM. Impacts of China's Edible Oil Pricing Policy on Nutrition. *Social Science & Medicine*. 2008;66:414-26. PMID: PMC2213886
3. Popkin BM. Will China's Nutrition Transition Overwhelm Its Health Care System and Slow Economic Growth? *Health Affairs*. 2008;27:1064-76. PMID: PMC2447919.
4. Tuan NT, Adair AS, He K, Popkin BM. Optimal Cutoff Values for Overweight: Using Body Mass Index to Predict Incidence of Hypertension in 18-65-Year-Old Chinese Adults. *Journal of Nutrition*. 2008;138:1377-82. PMID: PMC2587351
5. Zhai F, Wang H, Wang Z, Popkin BM, Chen C. Closing the Energy Gap to Prevent Weight Gain in China. *Obesity Reviews*. 2008;9:107-12.
6. Ng SW, Norton EC, Popkin BM. Why have Physical Activity Levels Declined among Chinese Adults? *Social Science & Medicine*. 2009;68:1305-14. PMID: PMC2731106
7. Popkin, Barry. M., Duffey, Kiyah J. Does hunger and satiety drive eating anymore? Increasing eating occasions and decreasing time between eating occasions in the United States *American Journal of Clinical Nutrition* 2010;91(5):1342-134. <http://dx.doi.org/10.3945/ajcn.2009.28962>. PMID: PMC2854907
8. Popkin, Barry M., D'Anci, Kristen, Rosenberg, Irwin. Water, Hydration and Health. *Nutrition Reviews* 2010;68(8):439-58. PMID: PMC2908954
9. Jones-Smith, Jesse, and Popkin, Barry M (2010) Understanding Community Context and Adult Health Changes in China: Development of an Urbanicity Scale *Social Science and Medicine* Oct;71(8):1436-46. PMID: PMC2942954
10. Duffey KJ, Gordon-Larsen P, Shikany JM, Guilkey DK, Jacobs DR, Popkin BM. Food Price and Diet and Health Outcomes: 20 Years of the CARDIA Study. *Archives of Internal Medicine* 2010;170(5):420-6.
11. Duffey KJ, Gordon-Larsen P, Steffen LM, Jacobs DR Jr., Popkin BM. Drinking Caloric Beverages Increases the Risk of Adverse Cardiometabolic Outcomes in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *American Journal of Clinical Nutrition* 2010;92(4):954-9. PMID: PMC2937591.
12. Jones-Smith JC, Popkin BM. Understanding Community Context and Adult Health Changes in China: Development of an Urbanicity Scale. *Social Science and Medicine*. 2010;71(8):1436-1446. PMID: PMC2942954
13. Malik VS, Popkin BM, Bray GA, Després J-P, Hu FB. Sugar-Sweetened Beverages, Obesity, Type 2 Diabetes Mellitus, and Cardiovascular Disease Risk. *Circulation* 2010;121:1356-64. <http://dx.doi.org/10.1161/CIRCULATIONAHA.109.876185>
14. Malik VS, Popkin BM, Bray GA, Després J-P, Willett WC, Hu FB. Sugar-Sweetened Beverages and Risk of Metabolic Syndrome and Type 2 Diabetes: A Meta-Analysis. *Diabetes Care*. 2010;33(11):2477-83. PMID: PMC2963518.
15. Jones-Smith, Jesse, P. Gordon-Larsen, A. Siddiqi, and B.M. Popkin (2011) Cross-national comparisons of time trends in overweight inequality by socioeconomic status among women using repeated cross-sectional surveys from 37 developing countries (1989-2007). *American Journal of Epidemiology*. DOI: 10.1093/aje/kwq428 PMID: PMC Journal – In Process

D. Research Support

Ongoing Research Support

1R01HL104580-01 (Popkin)

08/02/10 - 06/30/15

NIH/NHLBI

Obesity and Metabolic Risk Disparities: Underlying Food Environment Factors

This project aims to examine the full set of relationships between food prices and food environment factors with diet, weight and metabolic risk factors in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. The overall impact is to identify economic and food environment factors that are associated with health and can be addressed as potential targets for intervention to reduce disparities in obesity and

metabolic risk.

Role: PI

1R21DK089306-01 (Gordon-Larsen)

07/15/10 - 04/30/12

NIH/NIDDK

Heterogeneity in Cardiometabolic Risk with Obesity: Who Is at Risk?

This study takes advantage of 20-year longitudinal data from approximately 9,000 individuals enrolled in the China Health and Nutrition Survey to describe the prevalence of “metabolically healthy – overweight” and “metabolically at risk – normal weight” phenotypes in China.

Role: Co-Investigator

2R01HD030880-17 (Popkin)

08/15/94 - 05/31/13

NIH

Monitoring Social Change: Health, Reproduction, Aging

This project is collecting and disseminating two rounds of CHNS for 2009 and 20011, including new fasting blood and GIS collection systems.

Role: PI

5T32HD057824-03 (Popkin)

04/01/08 - 03/31/13

NIH/NICHD

Interdisciplinary Training in Maternal and Child Obesity

This proposed predoctoral training program, entitled "Maternal-Child Obesity (MCOB) Training" focuses on maternal and child overweight and obesity.

Role: PI

5R01CA121152-05 (Popkin)

09/12/05 - 06/30/11

NIH/NCI

Diet, Activity, Obesity & the Built Environment

This study will link contemporaneous geographic locations of respondents with diet-related (e.g., food shopping and eating options) and activity-related (e.g., recreation, community design) built environment variables to data from an exceptional data set including quality diet and physical activity data.

Role: PI

67506 (Popkin, PI)

06/01/10 - 05/31/13

NIH/NCI

Robert Wood Johnson Foundation: Monitoring Food Purchases and Calorie Consumption in the United States: The UNC Food Research Program

An independent evaluation of the Healthy Weight Commitment Foundation Initiative, examining US children's food purchases and caloric intake to gauge the food industry's impact on prevention of childhood obesity.

Role: PI

Completed Research Support

5D43TW007709-05 (Popkin)

09/28/06 - 04/30/11

NIH/Fogarty

Nutrition-Related NCD Policy Research Training in China

This project focuses on strengthening training related to research on nutrition-related noncommunicable diseases (NR-NCDs), health services and an array of program and policy-oriented issues in China and elsewhere in the developing world. The project is being conducted in combination with Beijing University, in particular the new Health Economics Department, and the Chinese Center for Disease Control.

Role: PI

5T32MH075854-04 (Popkin)

09/29/05 - 07/31/10

NIH/NIMH

UNC Interdisciplinary Obesity Training (IDOT)(RMI)

The Inter-Disciplinary Obesity Training program (iDOT) mentors postdoctoral scholars. The primary aim is to train scholars to work in an interdisciplinary learning and research environment with the goal of defining effective interventions for the prevention and treatment of obesity.

Role: PI

5R01CA109831-05 (Popkin) 09/17/04 - 06/30/10
NIH/NCI
Young Adult Environmental and Physical Activity Dynamics
The focus of this research will be on examining how modifiable environmental factors will affect physical activity patterns among underserved communities and consequently will reduce ethnic and socioeconomic differentials in health status. Role: PI

05 SC NIH 1055 (Popkin) 03/15/05 - 02/28/10
Duke University Subcontract via NIH (5 R01 AA12162)
Determinants and Consequences of Alcohol Consumption
To perform this research, investigators merged longitudinal data from the Economic Census with data on individuals from HRS and CARDIA. They studied entry-exit patterns and the spatial distribution of alcohol retailers.
Role: PI of subcontract

No Grant # (Tate) 03/17/08 - 02/28/10
Nestle Waters North America
Randomized Controlled Trial of a Water Beverage Intervention for Promoting Modes
This project studied over a six-month period the differential effects of water, diet beverages and normal beverage intake among overweight US adults. It was an outpatient random-controlled trial.
Role: Co-Investigator

1 R01 HD041375 (Popkin) 07/15/03 - 06/30/08
NIH/NICHHD
Physical Environment Dynamics, Inequality and Obesity
This study focused on how numerous community characteristics interact with race/ethnicity and other key socioeconomic factors to affect physical activity, inactivity, and overweight status in American youths as they transition from adolescence to adulthood.
Role: PI

1 P20 RR020649-05 (Popkin) 09/28/04 - 07/31/09
NIH/NCRR
An Interdisciplinary Strategy for Obesity
The specific aims of this P20 are: (1) Involve scientists with diverse perspectives and provide them with a fundamental, shared knowledge base to focus on an integrated strategy for obesity. (2) Build an interdisciplinary framework for the etiology, prevention, and treatment of obesity; and (3) Identify methodological advances needed to accelerate obesity research (biomarkers, outcome measures, assessment tools, genetic assessment, environmental assessment, mathematical models, etc.).
Role: PI

5D43TW000633-06-10 (Popkin) 09/29/95 - 04/30/08
Fogarty International Center
International Training in Population, Health and Aging
This project funded training related to demographic and health change research in China, Thailand, the Philippines, and Ecuador.
Role: PI

5U24HD048401 (Entwisle) 07/01/04 - 06/30/09
University of Michigan Subcontract via NIH/NICHHD
(Myron Guttman, PI of NIH/NICHHD grant)
Demographic Data Sharing and Archiving
This project brought together Inter-University Consortium for Political and Social Research and three leading centers of population (The Carolina Population Center, the Minnesota Population Center, and the Population Studies Center at the University of Michigan) to address "Infrastructure for Data Sharing and Archiving."
Role: Co-Investigator