

**VITA**

Craig A. Johnson  
 Department of Mathematics  
 Brigham Young University–Idaho  
 Rexburg, ID 83460-2155  
 (208) 496-1407 (Office)  
 (208) 496-5407 (Fax)  
 johnsonc@byui.edu

**EDUCATION**

Ph.D.	Purdue University (Statistics)	2004
M.S.	Purdue University (Applied Statistics)	2003
M.S.	University of Utah (Mathematics)	1997
B.A.	Utah State University (Mathematics)	1995

**PROFESSIONAL EXPERIENCE**

Professor	Brigham Young University–Idaho	1997-present
Adjunct Professor	University of Idaho	2005
Consultant	Technical Assistance Program, Purdue University	2003-2004
Consultant	Statistical Consulting Service, Purdue University	2002-2004
Director	Statistics in the Community, Purdue University	2003
Consultant	Statistics in the Community, Purdue University	2002-2004
Graduate Assistant	Department of Statistics, Purdue University	2001-2004
Adjunct Professor	Idaho State University	2000-2001
Graduate Assistant	Department of Mathematics, University of Utah	1995-1997

**GRANTS, HONORS, AND AWARDS**

Faculty Service Award, Brigham Young University–Idaho	2006
Thomas E. Ricks Grant, Brigham Young University–Idaho	2006
Community Service Award, Statistics in the Community, Purdue Univ.	2003-2004
Graduate Student Fellowship Incentive Grants, Purdue University	2002, 2003
Who’s Who Among America’s Teachers, BYU-Idaho student nomination	2002
NSF VIGRE Fellowship, Purdue University	2001-2004

**RESEARCH ACTIVITIES**

Estimation of the Distribution of Protein Requirements in a Population, Ph.D. Dissertation, Purdue University, 2004, G. P. McCabe, Advisor

A Simulation of the Belgian Progression and Oscar's System, Master's Thesis, University of Utah, 1997, S. N. Ethier, Advisor

## **PUBLICATIONS**

Wayne W. Campbell, Craig A. Johnson, George P. McCabe, and Nadine S. Carnell. Dietary protein requirements of younger and older adults. *American Journal of Clinical Nutrition*, 88(5):1322-1329, 2008.

Nilupa S. Gunaratna, Craig A. Johnson, John R. Stevens. Service-learning for graduate students through a student-run consulting program. *Journal of Statistics Education*, 15(2), 2007, <http://www.amstat.org/publications/jse/v15n2/gunaratna.html>.

Anna E. Thalacker-Mercer, Craig A. Johnson, Nadine S. Carnell, Kevin E. Yarasheski, and Wayne W. Campbell. Protein intake, feeding, and sex but not age affect albumin synthesis rate in humans. *The Journal of Nutrition*. 137:1734-1740, July 2007.

A. K. Mahon, M. G. Glynn, H. B. Iglay, L. K. Stewart, C. A. Johnson, B. K. McFarlin, and W. W. Campbell. Measurement of body composition changes with weight loss in postmenopausal women: comparison of methods. *The Journal of Nutrition, Health & Aging*, 11(3): 203-213, 2007.

Craig A. Johnson, Wayne W. Campbell, and George P. McCabe. Nitrogen balance-based protein requirement estimates and distributions analyzed using simulation modeling (abstract). *The FASEB Journal*, 20(5, Part 2):A1045, 2006.

Wayne W. Campbell, Nadine S. Carnell, Craig A. Johnson, Hannah Morse-Carrithers, Mark D. Haub, George P. McCabe, and Zonda K. Birge. Dietary protein requirement of young and elderly women (abstract). *The FASEB Journal*, 18(4, Part 1):A544, 2004.

## **TALKS AND ADDRESSES**

Service learning through a student-run consulting program, Invited Address, Joint Statistical Meetings, Minneapolis, Minnesota, August 2005

What Dr. Atkins didn't want you to know: An analysis of the distribution of protein requirements, Colloquium, Department of Mathematics, Brigham Young University—Idaho, Rexburg, Idaho, October 2004

Reducing process variation, Technical Assistance Program, Purdue University, West Lafayette, Indiana, September 2003

Reducing gear noise: A recent TAP project, Recruitment Seminar, Purdue University,

West Lafayette, Indiana, July 2003

Using the internet in teaching Introductory Statistics, Intermountain Section Meeting of the Mathematical Association of America, Cedar City, Utah, April 2000

A Simulation of the Belgian Progression and Oscar's System, Intermountain Section Meeting of the Mathematical Association of America, Logan, Utah, April 1997

## **PROFESSIONAL ACTIVITIES**

Second Vice President, Intermountain Section of the Mathematical Association of America, 2000-2001

Co-chair, Planning Committee for the Intermountain Section Meeting of the Mathematical Association of America, Rexburg, Idaho, 2000-2001

Moderator, Student Mathematics League Exam, American Mathematical Association of Two-Year Colleges, 1998-2001

Exam 110, Society of Actuaries, 1995

Exam 100, Society of Actuaries, 1994

## **UNIVERSITY SERVICE AND COMMITTEE ASSIGNMENTS**

Institutional Review Board (IRB), Brigham Young University–Idaho, 2006–Present

Prematriculation Committee, Brigham Young University–Idaho, 2006-2007

## **DEPARTMENT SERVICE AND COMMITTEE ASSIGNMENTS**

Team Leader, Introductory Statistics Introductory Statistics Foundation Course Committee, Mathematics Department, Brigham Young University–Idaho, 2008–Present

Internship Coordinator, Mathematics Department, Brigham Young University–Idaho, 2005–Present

Committee Member, Introductory Statistics Committee, Brigham Young University–Idaho, 2004–Present

Chair, Introductory Statistics Redesign Committee, Mathematics Department, Brigham Young University–Idaho, 2006-2008

Helped design the Applied Mathematics and Mathematics Education curricula for Brigham Young University–Idaho during the school's transition from a two-year to a four-year institution, 2000-2001

Committee Member, Statistics, College Algebra, and Quantitative Reasoning Committees, Brigham Young University–Idaho, 1998-2001

## **LANGUAGES**

English

Danish

## **PROFESSIONAL SOCIETIES**

American Statistical Association

## **ACCOMPLISHMENTS AND PROFESSIONAL EXPERIENCES**

Corporate consulting:

Market research survey design

Critical analysis of sampling design and implementation

Computed positive and negative predictive values for new disease test methodologies

Analyzed data to reduce noise in automobile gears, helped the firm save \$321,000

Estimated fishing effort using survey data, helped save taxpayers \$115,000 over two years

Predicted contamination test results in waste water to help a company reduce pollution

Introduced quality enhancement techniques at a trailer manufacturing company

Presented experimental design concepts to a company welding automobile parts

Assisted a producer of electrical components in the ISO certification process

Presented recommendations to a candy manufacturer to improve ISO compliance

Assisted two different medical device suppliers work toward ISO compliance

Aided a trailer brake manufacturer in their progress toward ISO certification

Created a dynamic data collection form for a paperboard manufacturer

Assisted in presentation of an ISO training session for several companies

Examined potential causes of defects for a sink and toilet manufacturer

Helped a county organization implement web-based surveys

Worked with a health care system to improve their quality system

Analyzed a physician's service times, helped identify potential improvements

Directed the following service-learning consulting projects with BYU–Idaho students:

Summarized and reported on survey data collected by a clothing manufacturer

Designed, conducted, and analyzed a survey on recreation in Rexburg, Idaho

Designed, conducted, and analyzed a survey on changes to downtown Rexburg, Idaho

Redesigned a survey to measure satisfaction of residents of Rexburg, Idaho

Designed, conducted, and analyzed a survey for a school district to assess patron opinions

Developed growth projections for a school district in Idaho

Directed a group of volunteer graduate student consultants on several projects including:

Designed and analyzed a survey for the Sagamore Parkway Task Force, W. Lafayette, IN

Presented principles of survey design to directors of a local charitable organization

Analyzed student performance data for local school corporations

Guided librarians in the analysis of their patron and usage databases

Prepared a survey of food preferences and attitudes for a local adult care center

Assisted a local family support organization with survey design

Examined data from a performing arts group to identify ways to increase revenue

Investigation of employment data from a youth group home

Served as a software or design consultant for many faculty and graduate student projects within the following categories:

Assisted with survey instrument design

Guided analysis of survey data

Helped design an experiment to determine environmental preferences of termites

Investigated spatial-temporal presence of slugs on several types of hostas

Led design of a survey instrument to assess interest in a new degree offering

Implemented statistical analyses using computer software

**RESEARCH INTERESTS**

Applied Statistics, Statistical Education