

# SHAUNNA K. BURBIDGE

## *Curriculum Vitae*

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### **EDUCATION**

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#### **Ph.D. in Geography, June 2008 (4.0 GPA)**

University of California, Santa Barbara

- ♦ Emphasis: Transportation Modeling, Measurement, and Computation (Advisor: Konstadinos G. Goulias)
- ♦ Dissertation: “Evaluating the Impact of Neighborhood Trail Development on Active Travel Behavior and Overall Physical Activity”

#### **Master of Arts in Geography, December 2004 (4.0 GPA)**

University of California, Santa Barbara

- ♦ Emphasis: Human-Environment Relations (Advisor: Konstadinos G. Goulias)
- ♦ Thesis: “Factors Affecting Active Mode Choice in Transportation”

#### **Bachelor of Science in Geography, May 2003 (Magna Cum Laude)**

Weber State University, Ogden, Utah

- ♦ Emphasis: Urban Planning
- ♦ Thesis: “The Effects of Demographics on Crime in Southern Davis County, Utah”

#### **Bachelor of Science in History, May 2003 (Magna Cum Laude)**

Weber State University, Ogden, Utah

- ♦ Thesis: “A History of Women’s Fitness in the United States”

### **ACADEMIC WORK EXPERIENCE**

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**University of Utah-** Salt Lake City, UT      *Research Assistant Professor*      July 2009-Present  
Joint appointment in the departments of City and Metropolitan Planning, and Health Promotion and Education; Director of the Center for Integrative Community Health

- ♦ Taught upper division undergraduate courses in Research Methods and Statistics
- ♦ Taught graduate courses in Travel Behavior Analysis and Transportation Modeling
- ♦ Developed learning modules for faculty and graduate students on diverse research methodologies and statistical concepts
- ♦ Mentored graduate students and served on Masters/PhD committees

**Brigham Young University-** Provo, UT      *Visiting Assistant Professor*      August 2008-July 2009  
Department of Geography      *Associate Instructor*      2006-2008

- ♦ Taught undergraduate courses in Transportation Planning, Land-Use Planning, Urban Design, Advanced Planning Methods, Human Geography, and Urban Geography
- ♦ Organized and directed the “Urban Planning Emphasis” and mentored upper-division students

**University of Utah-** Salt Lake City, UT      *Adjunct Instructor*      2006-2009  
Department of Health Promotion and Education (2008-2009), Department of Geography (2006-2007)

- ♦ Conducted research on environmental behavioral triggers for physical activity
- ♦ Taught undergraduate and graduate courses in Transportation Geography and Advanced Transportation Geography

University of California Santa Barbara

Teaching Assistant

2003-2004

Department of Geography

- ♦ Taught guest lectures and led discussion sections for courses in Human Geography, Regional Geography (The United States), and Transportation Planning and Modeling (graduate and undergraduate courses)

*\*\*Teaching Portfolio Available Upon Request*

## **TECHNICAL WORK EXPERIENCE**

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### **Active Planning**

*Owner/Principal Planner*

May 2005-Present

2541 South Wellington Street, Salt Lake City, Utah

- ♦ Private consulting for Metropolitan Planning Organizations as well as local counties and municipalities on issues relating to transportation planning, activity based modeling, and mode and route estimation modeling for active transportation modes
- ♦ Authored technical report focusing on incorporating public health components in long range transportation planning (Adopted by the Wasatch Front Regional Council - 2006)
- ♦ Contributing author to the "Bicycle and Pedestrian Planning Handbook" -produced by Fehr & Peers (2006).

### **Envision Utah-Coalition for Utah's Future**

*Project Planner*

Feb. 2005- May 2006

254 South 600 East, Suite 201 Salt Lake City, Utah

- ♦ Specialist on GIS based integrated land-use transportation modeling (UrbanSim)
- ♦ Project Manager for various regional transportation, redevelopment, and master planning projects
- ♦ Specialist in research methods, statistical analysis, active transportation modes, and public health

### **Parsons, Brinckerhoff, Quade, and Douglas**

*Planning Aid*

May 2002-Dec. 2002

488 East Winchester Street suite 400 Murray, Utah

- ♦ Researched spatially oriented data and aided in public scoping for NEPA compliance
- ♦ Authored components of Environmental Impact Statements for transportation projects in Wyoming, Idaho, and Utah

## **PEER REVIEWED PUBLICATIONS**

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- Burbidge, S.K. (2010). Merging Long-Range Transportation Planning with Public Health: A case study from Utah's Wasatch Front. *American Journal of Preventive Medicine*. In Press.
- Burbidge, S.K., and K.G. Goulias (2009). Evaluating the Impact of Neighborhood Trail Development on Active Travel Behavior and Overall Physical Activity among Suburban Residents. *Transportation Research Record: Journal of the Transportation Research Board*. In Press.
- Burbidge, S.K., and K.G. Goulias. (2009). Active Travel Behavior. *Transportation Letters*, 1(2), 95-115.
- Burbidge, S.K. (2008). Promoting Public Health through Transportation Planning: New regional transportation planning guidelines adopted by Utah MPO. *TR (Transportation Research) News*, May-June, 16-18.
- Burbidge, S.K., T. Knowlton, and A. Matheson (2007). A New Paradigm for Public Involvement and Scenario Development in Transportation Planning. *Transportation Research Record: Journal of the Transportation Research Board*, 1994, 147-153.

- Burbidge, S.K. (2006). The Missing Link: Community planning and public health. *The Western Planner*. 27(7), 7-9.
- Burbidge, S.K. (2006). Brownfield Redevelopment: A new paradigm to tackle growth. *Utah Planner*. 32(1), 1-4.
- Church, R. L., V. Noronha, T. Lei, W. Corrigan, S. Burbidge, J. Marston. (2005). *Spatial and Temporal Utility Modeling to Increase Transit Ridership*. UCB-ITS-PRR-2005-22. Berkeley: Partners for Advanced Transit and Highways.

### **Currently Under Review**

- Burbidge, S.K., and S.Y. Yoon. (2009). The Golden Years of Walking: How Baby Boomers are creating an induced demand for active infrastructure in America. *Transport Geography*. Invited submission currently under review.

## **TECHNICAL PUBLICATIONS**

- Burbidge, S.K. (2006). *Public Health and Transportation: Planning for Active Modes along Utah's Wasatch Front*. Salt Lake City: Wasatch Front Regional Council. Available online at [www.wfrc.org](http://www.wfrc.org)
- Envision Utah (2006). *Brownfield Redevelopment Solutions Toolbox*. (Ed. S.K. Burbidge). Salt Lake City: Envision Utah.
- Burbidge, S.K. (2004). *The Role of Commuter Behaviors and Demographics in Determining Active Mode Choice: Survey Results*. Salt Lake City: Envision Utah.
- Dorsey, B., Burbidge, S., et al. (2003). *Morgan County Comprehensive Open Space Plan*. Ogden: Weber State University Press.
- Burbidge, S. (2003). *Conflicting Crime Rates in Suburban Societies: The Effects of Demographics on Crime in Southern Davis County, Utah*. Bountiful: Bountiful City Police Department.

## **FUNDED RESEARCH PROJECTS**

- ◆ **A Bombardment Approach to Integrated Community Health Interventions (\$500,000)**  
Role: Principal Investigator and Research Director, cooperative effort with the Utah Partnership for a Healthy Weight and the University of Utah Department of Health Promotion and Education  
Funded by: Energy Solutions Foundation, Comcast, and Qwest- Salt Lake City, UT (2008-2010)
- ◆ **Foreign Travel Experience as a Predictor of Domestic Travel Behavior (\$5,000)**  
Role: Principal Investigator  
Funded by: Brigham Young University, College of Family, Home, and Social Sciences- Provo, UT (2009)
- ◆ **An Inventory of City Planning Ordinances Relating to Public Health (\$25,000)**  
Role: Senior Project Researcher under the Physical Activity, Nutrition, and Obesity Program (PANO) administered by the Utah Department of Health (Total budget \$2,000,000)  
Funded by: Centers for Disease Control (CDC)- Atlanta, GA (2008-2013)

- ◆ **Evaluation of Work-related Automobile Crashes Using Probabilistic Matching Within the Utah Crash Data Evaluation System (CODES) (\$120,000)**  
Role: Senior Project Researcher with Brigham Young University Department of Health Sciences  
Funded By: National Highway Traffic Safety Administration (2008-2010)
- ◆ **Public Involvement Strategies to Promote Municipal Neighborhood Involvement (\$10,000)**  
Role: Co-Principal Investigator (Brigham Young University Center for International Studies)  
Funded by: Provo City, UT (2008-2009)
- ◆ **Evaluating the Impact of Trail Construction on Travel Behavior (\$35,000)**  
Role: Principal Investigator  
Funded by: The University of California Transportation Center (UCTC)- Berkeley, CA (2005-2008) and the National Highway Institute of the Federal Highway Administration (2006-2007)
- ◆ **Planning for Active Modes Along Utah’s Wasatch Front (\$10,000)**  
Role: Principal Investigator  
Funded by: Wasatch Front Regional Council (MPO)- Salt Lake City, UT (2005-2006)
- ◆ **Analyzing Transit Ridership as a Commuter Mode Choice (\$150,000)**  
Role: Project Researcher  
Funded by: Partners for Advanced Transit and Highways- Berkeley, CA (2004-2005)

### **PENDING RESEARCH FUNDING**

- ◆ **Are Safe Routes to School Really Safe?: An analysis of parental perceptions as correlates of revealed behavior in children**  
Role: Principal Investigator  
Grants submitted to: Utah Department of Transportation (\$50,000), The University of Utah Research Foundation (\$35,000), and The Utah Department of Health (\$25,000)- Salt Lake City, UT
- ◆ **Travel Behavior of Event Bound Populations**  
Role: Principal Investigator  
Grant pending submission to: The National Science Foundation
- ◆ **The Long Term Impacts of Commuter Rail on Public Health: A panel analysis**  
Role: Principal Investigator  
Grants pending submission to: Utah Transit Authority-Salt Lake City, UT, and the National Institute of Health- Bethesda, MD

### **AFFILIATIONS AND SERVICE**

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#### **Professional**

- **Transportation Research Board (National Academy of Sciences), Member since 2005**
  - Travel Behavior and Values (ADB10) – Standing Committee Member, April 2008-April 2011
  - Co-Editor of the “TRB Travel Survey Manual” produced for the U.S. Department of Transportation, U.S. Federal Highway Administration, U.S. Federal Transit Administration, and the Department of the Secretary - U.S. Environmental Protection Agency (2008).
  - Presiding Officer, “The Built Environment, Travel Behavior, Physical Activity, and Non-automobile Mode Use: What a Tangled Web We Weave”, 88<sup>th</sup> Annual Meeting of the Transportation Research Board of the National Academy of Sciences, January 11-15, 2009: Washington, DC.

- **Manuscript Reviewer**
  - Transportation Letters, 2008-Present
  - International Conference on Travel Behavior Research, 2007-Present
  - Transportation Research Record, 2005-Present
  - Transport Policy, 2006-Present
  - Urban Studies, 2006-Present
  - World Conference on Transportation Research, 2006-Present
- **American Planning Association**, Member since 2003 (AICP Eligible)
  - Utah Chapter- Program Committee Member, 2005-2006
  - Utah Chapter- Annual Conference Planning Committee Member, 2009
  - Utah Chapter- Utah Student Planning Conference Organizer, 2009
- **Association of American Geographers**, Member since 2003
  - Transportation Geography Specialty Group Member
  - Health and Medical Geography Specialty Group Member
- **Association of Environmental Professionals**, Member 2004-2006

## **Community**

- Utah Partnership for a Healthy Weight, 2005-Present
  - Research Council - Member, June 2008-Present
  - Active Community Environments Workgroup – Jan. 2007-Present; Chair, since Aug. 2008
- Utah Transportation Safety Leadership Team, 2005-Present  
(Formerly known as the “Utah Pedestrian, Bicycle, and Traffic Safety Council”)
- Utah Bicycle Coalition - Board Member, 2006-2007
- Utah Safe Routes to School - Board Member, 2005-2007

## **University and Department**

- **Director- Center for Integrative Community Health**, University of Utah, August 2009-Present
- **Chair- Research Committee**, Department of Health Promotion and Education, University of Utah, August 2009-Present
- **Director- Urban Planning Program**, Brigham Young University, 2008-2009
- **Faculty Advisor/Liaison**
  - Students for New Urbanism - Brigham Young University chapter, 2008-2009
  - APA Student Planning Organization – Brigham Young University chapter, 2008-2009
- **Scholarship Committee**, Geography – Brigham Young University, 2008-2009

- **Curriculum Development Committee**, Geography – Brigham Young University, 2008-2009
- **Gamma Theta Upsilon Honor Society**, Chapter President - Weber State University, 2002-2003

## **HONORS AND AWARDS**

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- \* **AAG Nystrom Award Finalist (Top 4)**, March 2009  
Selected by The Association of American Geographers for best paper from a recent dissertation in Geography
- \* **2009 Translating Research to Policy Award**, February 2009  
Awarded by Active Living Research, a subsidiary of the Robert Wood Johnson Foundation
- \* **Award of Excellence in Plan Development**, September 2007  
Project: “Public Health and Transportation: Planning for Active Modes along Utah’s Wasatch Front”  
Awarded by the American Planning Association- Utah Chapter
- \* **George Smeath Outstanding Student Planner Award**, September 2007  
Awarded by the American Planning Association- Utah Chapter
- \* **UCTC Dissertation Research Grant Recipient**, 2007-2008  
Awarded by the University of California Transportation Center - Berkeley, CA
- \* **Dwight David Eisenhower Graduate Transportation Fellow**, 2006-2007  
Awarded by the National Highway Institute of the Federal Highway Administration
- \* **University of California Graduate Fellow**, 2003-2008  
Awarded by the University of California, Santa Barbara
- \* **Distinguished Graduate in Geography**, May 2003  
Awarded by Weber State University- Ogden, Utah
- \* **Anna J. Lang Scholarship for Future Teachers**, 2002-2003  
Awarded by the Weber State University Department of Geography- Ogden, Utah
- \* **Honor Societies**  
Gamma Theta Upsilon (Geography Honorary), Inducted 2002  
Golden Key International Honour Society, Inducted 2002  
Phi Alpha Theta (History Honorary), Inducted 2001

## **CONFERENCE PRESENTATIONS**

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- Burbidge, S.K., and K.G. Goulias (2009). *Analyzing Neighborhood Trail Development as a Catalyst for Increased Active Travel Behavior among Suburban Neighborhood Residents*. The 12<sup>th</sup> International Conference on Travel Behavior Research. Jaipur, India: December 13-18, 2009.
- Burbidge, S.K., J.P. Brooks, T. Lounsberry, and T. Robertson. (2009). *Analysis of Municipal Policies and Ordinances as Predictors of Physical Activity in Communities*. Annual Meeting of the Association of American Geographers. Las Vegas, Nevada: March 22-26, 2009.

- Burbidge, S.K., and S.Y. Yoon. (2009). *The Golden Years of Walking: How Baby Boomers are creating an induced demand for active infrastructure in America*. Annual Meeting of the Association of American Geographers. Las Vegas, Nevada: March 22-26, 2009.
- Burbidge, S.K., and K.G. Goulias (2009). *The Impact of Trail Construction on Active Travel Behavior and Physical Activity in the Suburbs*. Annual Meeting of the Association of American Geographers. Las Vegas, Nevada: March 22-26, 2009.
- Thygerson, S.M., L.J. Cook, R.M. Merrill, S.K. Burbidge, and E.L. Morey. (2009). *Utah Crash Data Evaluation System (CODES): A potential tool for evaluation of work related motor vehicle crashes*. International Conference on Road Safety at Work. Washington, D.C.: February 17-20, 2009.
- Burbidge, S.K. (2009). *Individual Stated Preferences as Precursors to Revealed Active Behavior*. Active Living Research Conference. San Diego, California: February 18-20, 2009.
- Burbidge, S.K. (2009). *A Longitudinal Evaluation of Neighborhood Trail Construction and Physical Activity among Suburban Residents*. Active Living Research Conference. San Diego, California: February 18-20, 2009.
- Burbidge, S.K. (2009). *Incorporating Public Health in Long Range Transportation Planning: Implementing research in policy*. Plenary presentation and winner of the Translating Research into Policy Award, Active Living Research Conference. San Diego, California: February 18-20, 2009.
- Burbidge, S.K., and K.G. Goulias (2009). *Active Travel Behavior*. 88<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.: January 11-15, 2009.
- Burbidge, S.K., and K.G. Goulias (2009). *Evaluating the Impact of Neighborhood Trail Development on Active Travel Behavior and Overall Physical Activity among Suburban Residents*. 88<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.: January 11-15, 2009.
- Burbidge, S.K. (2009). *Incorporating Public Health in Long Range Transportation Planning: Implementing Research in Policy*. 88<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.: January 11-15, 2009.
- Burbidge, S.K., and S.Y. Yoon. (2008). *The Golden Years of Walking: How Baby Boomers are creating an induced demand for active infrastructure in America*. Transportation Research Board Impact of Changing Demographics on the Transportation System Conference. Washington, D.C.: October 27-28, 2008.
- Burbidge, S.K. (2008). *Neighborhood Infrastructure Modification as a Mechanism of Behavioral Change*. Spatial@UCSB Jack Dangermond Human-Environment Interactions Conference. Santa Barbara, California: May 22, 2008.
- Burbidge, S.K. (2008). *If You Build It, Will They Come?: A Real Life Experiment in Travel Behavior Modification*. 14<sup>th</sup> Annual University of California Transportation Research Conference. Santa Barbara, California: January 31, 2008.
- Burbidge, S.K. (2007). *Factors Affecting Active Mode Choice in Transportation*. 13<sup>th</sup> Annual University of California Transportation Research Conference. Los Angeles, California: February 16, 2007.
- Burbidge, S.K., T. Knowlton, and A. Matheson (2007). *A New Paradigm for Public Involvement and Scenario Development in Transportation Planning*. 86<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington, D.C.: January 23, 2007.

- Burbidge, S.K. (2006). *Walkable Communities: Using Urban Trails to Promote Fitness*. Utah Trails and Pathways State Conference. Ogden, Utah: September 8, 2006.
- Burbidge, S.K. (2006). *A Compact Housing Toolbox: Planning for Workforce Housing*. National Association of Housing and Redevelopment Officials (NAHRO) Conference. St. George, Utah: April 13, 2006.
- Burbidge, S.K. (2006). *The Missing Link: Community Planning and Public Health*. Utah Recreation and Parks Association (URPA) Annual Conference. St. George, Utah: March 15, 2006.
- Burbidge, S.K., K.G. Goulias, and T.G. Kim (2006). *Travel Behavior Comparisons of Active Living and Inactive Living Lifestyles*. 85<sup>th</sup> Annual Meeting of the Transportation Research Board. Washington D.C.: January 23, 2006.
- Burbidge, S.K. (2005). *Brownfield Redevelopment Solutions*. Brownfields National Conference. Denver, Colorado: November 2, 2005.
- Burbidge, S.K. (2005). *Where the Sidewalk Ends: Planning for public health through the use of active transportation*. Western Planner-American Planning Association Regional Conference. Midway, Utah: August 3, 2005.

## **OTHER INVITED PRESENTATIONS**

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- Burbidge, S.K. (2007-2009). *Transportation Planning Theory for Civil Engineers*. Brigham Young University Undergraduate and Graduate Civil Engineering Classes. Provo, Utah: October 29, 2006; February 8, 2007; February 12, 2008; and February 9, 2009.
- Burbidge, S.K. (2007). *What Makes a Walkable Community?* Interviewed and provided expert opinion on CBS News Affiliate (KUTV Channel 2). Salt Lake City, Utah: November 29, 2007.
- Burbidge, S.K. (2007). *The Importance of Multi-Modal Planning for Transportation*. Brigham Young University Students for New Urbanism Chapter Conference. Provo, Utah: October 30, 2007.
- Burbidge, S.K. (2006). *Integrating Land-Use Models in Transportation Planning*. Brigham Young University Graduate Civil Engineering Class. Provo, Utah: October 30, 2006.
- Burbidge, S.K. (2006). *Public Health and Transportation: Planning for Active Modes along Utah's Wasatch Front*. Wasatch Front Regional Council (MPO), Regional Growth Committee, and the Regional Growth Technical Advisory Committees. Salt Lake City, Utah: August 2006.
- Burbidge, S.K. (2006). *Active Mode Choice and Individual Travel Behavior*. Brigham Young University Department of Geography Colloquium. Provo, Utah, March 23, 2006.
- Burbidge, S.K. (2005). *Envisioning the Future of Transportation: Wasatch Choices 2040*. Weber State University Planning Class. Ogden, Utah: October 27, 2005.
- Burbidge, S.K. (2005). *Envision Utah's Role in Transportation Planning*. Brigham Young University Graduate Civil Engineering Class. Provo, Utah, October 26: 2005.

- Burbidge, S.K. (2005). *Local Brownfield Redevelopment Initiatives*. Interviewed and provided expert opinion on Fox News Radio Affiliate (KSL 102.7 FM). Salt Lake City, Utah: October 12, 2005.
- Burbidge, S.K. (2005). *Bountiful City's Historic Fort Plan*. University of Utah Community Planning Class. Salt Lake City, Utah: August 30, 2005.
- Burbidge, S.K. (2005). *What is Brownfield Redevelopment?* University of Utah Service Learning and Civic Policy Class. Salt Lake City, Utah: August 30, 2005.
- Burbidge, S.K. (2005). *Analyzing Regional Growth Principles*. The Utah Quality Growth Commission. Salt Lake City, Utah: July 27, 2005.
- Burbidge, S.K. (2004). *Health and Transportation Mode: A discussion of practical application*. Utah Regional Growth Committee and the Board of Directors Meeting of the Coalition for Utah's Future. Salt Lake City, Utah: August 17, 2004.

## **GRADUATE STUDENT MENTORING**

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### **2009-2010**

- Bo Earls. *Innovative Preliminary Assessment Techniques for Measuring Physical Activity in Adolescents*. Committee member for Doctoral Dissertation. University of Utah - Department of Health Promotion and Education. Salt Lake City, Utah: Anticipated completion June 2010.
- Shannon Talbot. *A Conditional Assessment of Overall Community Health in Magna, Utah*. Committee member for Doctoral Dissertation. University of Utah - Department of Health Promotion and Education. Salt Lake City, Utah: Anticipated completion December 2010.