

# CURRICULUM VITAE

BRUCE S. APPLEYARD, PHD, MCP

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## EDUCATION

University of California, Berkeley	2007-2010	PhD	City and Regional Planning
University of California, Berkeley	1995-1997	MCP	City and Regional Planning
University of California, Berkeley	1983-1989	B.A.	Geography

### Title of Dissertation

*“New Methods to Measure Urban Environments for Consumer Behavior Research: Individual Access Corridor Analysis of Environmentally Sustainable and Healthy Travel to Rapid Transit”*

**Inside Field Statement:** *“Ecologies of Land Use, Transport & Urban Design”*

## TEACHING POSITIONS AND RANKS HELD

*San Diego State University*, School of Public Affairs

- Assistant Professor of City Planning and Public Administration, September, 2013 – present

*University of California at Berkeley*

- Professional Development Instructor, Institute of Transportation Studies (Fall 2009-Present)
- Visiting Scholar, Institute of Urban & Regional Development, (3/12-12/13)
- Research Associate, Safe Transportation Research & Education Center, (3/12-12/13)

*University of Utah*

- Associate Research Professor of City + Metropolitan Planning, College of Architecture and Planning; Adjunct Professor of Real Estate Development, Eccles School of Business, University of Utah (3/11-3/12).

## ACADEMIC AWARDS

- *University of California Transportation Center Dissertation Grant* 2009-2010
- *University of California Transportation Center Fellowship* 2007-2010
- *Volvo Foundation Fellowship* 2007-2010
- *Michael B. Teitz Fellowship for Outstanding Regional Planning Research* 2008-2009
- *Professional Promise Award, UC, Berkeley College of Environmental Design* 1997

## TEACHING

Curriculum Development and Teaching Innovations

- CP700: Urban Design and Land Development Studio (Spring 2014; 2015; 2016)
- CP695: Computer Applications for Planners and Urban Designers (Fall 2014; 2015)
- SEM: Health and Wellness Seminar (Fall 2014; 2015)
- PA 350: Contemporary Metropolitan Issues – SDSU (Fall 2013; 2014)
- CP 670: History of City Planning – SDSU (Fall 2013; 2014; 2015)
- Sustainable Urban Development – University of Utah (2011)
- Transportation and Land Use Planning – Portland State University (2004)
- Transportation and Land Use Planning – University of Virginia (2003)

## REFEREED JOURNAL ARTICLES

### Accepted/Published

1. Appleyard, B. (2016). "New Methods to Measure the Built Environment for Travel Behavior Research and Practice: Better Pathways Toward Understanding Sustainable and Active Pedestrian and Bicycle Travel." Accepted for publication in *Journal of Transport and Land Use*. (SJR) indicator impact factor of .326 and an acceptance rate of 30%.
2. Appleyard, Ferrell, Taecker. (Forthcoming 2016). "Toward a Typology of Transit Corridor Livability: The Transportation/Land Use/Livability Connection." *Transportation Research Record: Journal of the Transportation Research Board*. (SNIP) impact factor of 0.894 and an acceptance rate of 22 %.
3. Appleyard, B. Ferrell, C., Carroll, M., Taecker, M. 2014. "Toward Livability Ethics: A Framework to Guide Planning, Design, and Engineering Decisions." Accepted for publication *Transportation Research Record: Journal of the Transportation Research Board*. (SNIP) Impact factor: 0.894 and an acceptance rate of 22 %.
4. Nelson, Appleyard, Kannan, Ewing, Miller, and Dejan Eskic. 2013. "Bus Rapid Transit and Economic Development: Case Study of the Eugene-Springfield BRT System." *Journal of Public Transportation* 16 (3): 41-57. SJR impact factor of .354.
5. Appleyard, B. 2012. "Sustainable and Healthy Travel Choices and the Built Environment: Analyses of Green and Active Access to Rail Transit Stations Along Individual Corridors." *Transportation Research Record: Journal of the Transportation Research Board* 2303(1): 38-45. (SNIP) factor of 0.894 and an acceptance rate of 22 %.
6. Reid, Nelson, Bartholomew, Emmi, and Appleyard. 2011. "Response to Special Report 298 Driving and the Built Environment: The Effects of Compact Development on Motorized Travel, Energy Use, and CO2 Emissions." *Journal of Urbanism: International Research on Placemaking and Urban Sustainability* 4(1): 1-5. Thomson Impact Factor of 1.25.
7. Cervero, Rood, and **Appleyard**.1999. "Tracking Accessibility: Employment and Housing Opportunities in the San Francisco Bay Area." *Environment and Planning A* 31, no. 7: pp. 1259 – 1278. doi:10.1068/a311259. This journal has a Thomson Impact Factor of 1.89.

### Revise and Resubmit

1. Riggs, Appleyard. "The Economic Impact of One to Two-way Street Conversions: Advancing a Context Sensitive Framework" *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*. Thomson Impact Factor of 1.25.

### Submitted

1. Appleyard, B. (Under review 2016). "The Meaning of Livable Streets to Schoolchildren: An Image Mapping Study of Traffic Exposure on Children's Cognitive Development". *Journal of Transport & Health*.
2. Appleyard, Ferrell. (Under review 2016). "Crime and its Association with Active & Sustainable Travel Behavior: A GeoSpatial and Statistical Analysis of Crime and Mode Choice". *Journal of Transport & Health*.

#### REFEREED REPORTS/ CHAPTERS/ SECTIONS

1. Ferrell, **Appleyard** et al. (Forthcoming 2016). *TCRP H-45 Livable Transit Corridors: Methods, Metrics, and Strategies*, Competitive grant-funded and peer-reviewed report for the National Academies of Sciences' Transportation Research Board. This report applies innovative geo-spatial analysis (GIS) and data gathering techniques to intensively research a unique GIS dataset for over 300 transit corridors throughout the US. As one of the lead investigators, this research provides a handbook and calculator that provides: 1) a clear and actionable definition of transit corridor livability; 2) a set of livability measurement methods; and 3) an associated descriptive typology of transit corridors to help identify and select the best livability improvement strategies.
2. Mekuria, **Appleyard**, Nixon. (Forthcoming 2016). *A Tool to Evaluate and Optimize Multi-Modal Transit Access*. Neighborhood Crime and Transit Station Access Mode Choice – Competitive grant-funded and peer-reviewed report published by the Mineta Transportation Institute (MTI).
3. **Appleyard**. (Forthcoming 2016. Urban Planning Human Dynamics *Encyclopedia*
4. Ferrell, Mathur, **Appleyard**. 2015. *Neighborhood Crime and Transit Station Access Mode Choice* – Competitive grant-funded and peer-reviewed report published by the Mineta Transportation Institute (MTI), this research on the relationship between crime and active and healthy travel leads to recommendations on collaborative ways for transit agencies, police, and public officials can reduce crime and make non-motorized travel safer. The report is available at <http://transweb.sjsu.edu/project/1107.html>
5. Ferrell, **Appleyard**. 2014 *Building Consensus and Partnerships for Implementing the MAP-21 Section 5310 Program in California*. Competitive grant-funded and peer-reviewed report published by the Mineta Transportation Institute (MTI).
6. Ferrell, Carroll, **Appleyard** et al. 2011. *Reinventing the Urban Interstate: A New Paradigm for Multimodal Corridors*. TCRP Report no. 145. Competitive grant-funded and peer-reviewed report on station access for highway transit systems. Providing an international review and normative framework for multimodal public transportation station access within and near highways and expressways. Published by the Transportation Research Board, Washington DC.

#### REFEREED BOOK CHAPTERS

1. **Appleyard**, B. 2013. "Livable Streets for Schoolchildren." *Safety, Sustainability, and Future Urban Transport*. Edited by Professor Dinesh Mohan, India Institute of Technology. Published by Eicher Goodearth, New Delhi: pp. 67-80.

#### FUNDED RESEARCH GRANTS

1. Appleyard SDSU PI. 3-year Strategic Growth Council Grant (my overall grant award is \$125,000 out of \$900,000), 2014-17
2. Appleyard SDSU PI. To lead the development of the transportation element of SDSU's Climate Action Plan.
3. Awarded. Appleyard. SDSU PI. With Maaza Mekuria and Hilary Nixon. "A Tool to Evaluate and Optimize Multi-Modal Transit Access" \$70,000 by the Mineta Transportation Institute. (2013-2015)
4. Awarded. Appleyard. Co-PI. With Christopher Ferrell, PhD. Helping Caltrans and all the MPOs in California navigate the new federal transportation funding legislation related to elderly and disabled programs" \$30,000 by the Mineta Transportation Institute. (2013-2014)
5. Continued working on a Transit Cooperative Research Program Funded Research (\$350,000) (2012-2015)
6. Continued working on Caltrans funded Smart Mobility Implementation project (\$250,000). (2012-2014)
7. Awarded UGP, \$10,000, to survey and examine people's place, residential and. transportation preferences. (2014-2015)
8. HUD/EPA Integrating Social Equity and Local/Regional Scenario Planning (\$400,000 total). (2012-2014)

#### PUBLICATIONS IN PROCESS

1. Appleyard, Ferrell. "The Meaning of Mean Streets: Crime, Casualty and Mode Choice: The Association between Crime, Casualties, Gender and Sustainable & Active Travel Choices".
2. Appleyard, B. "Can Creating Livable and Complete Streets Improve Children's Spatial Knowledge? A Cognitive Mapping Study of Traffic and Safe Routes to School (SR2S) Projects in a Suburban Context".

3. Ryan, Appleyard. Utilitarian Bicycle Route Choice. This manuscript will use data collected via GPS units worn by 65 utilitarian cyclists in San Diego County in 2011, which generated bicycle route traces for about 400 bicycle trips. We will examine the land use and roadway and bicycle facility characteristics of the routes chosen in order to inform local and regional bicycle planning. We also surveyed each of the study participants about their bicycle facility preferences and will compare this stated preference to the routes actually chosen.
4. Ryan, Appleyard. Developing Community-Wide Estimates of Daily Bicycle Trips. This paper will explore methods for translating widespread peak period bicycle counts into daily bicycle flows across several communities in San Diego.
5. Ryan, Appleyard. Understanding Incomplete Streets. This paper will explore integrating bicycle route choice data (collected via GPS) and the automated bicycle counts to understand patterns in roadway facility usage by cyclists across gender, income and race/ethnicity.
6. Ryan, Appleyard. Community-wide Estimates of Cycling Collision Rates. This paper will use bicycle-related collisions collected by the California Highway Patrol and the automated count data to calculate improved measures of bicycle collision rates. This research will be novel in that prior research has been limited to assessing total number of collisions rather than collision rates (number of collisions/number of cyclists)
7. Appleyard et al. "Reinventing the Urban Interstate: A New Paradigm for Multimodal Corridors." Providing an international review and normative framework for multimodal public transportation station access within and near highways and expressways.
8. Appleyard et al. "The Social Deviance of NIMBY Opposition: A Guide Toward a Better Future for Planning Outcomes." Providing an international review and normative framework for multimodal public transportation station access within and near highways and expressways.
9. Appleyard et al. Tracking Accessibility 1980-2010: A Forty Year Study of the Jobs Housing Mismatch in the SF Bay Area.
10. Appleyard et al. "A Guide Toward Rebalancing the Transportation and Land Use Connection through Climate Action Planning."
11. Appleyard et al. "University Climate Action Planning: A Study of Travel Behavior and Policy Guidance.
12. Appleyard et al. "The Transportation/Land Use/Livability Connection: A Study of Quality of Life Satisfaction and Equity through Social Media
13. Appleyard. "Street Conflict, Power and Promise: Livable Streets Humanizing the Auto-Mobility Paradigm."
14. Appleyard. "Identity, Power, and Place".
15. Appleyard et al. "Dynamic Ridesharing and Correlates with Transit Use."
16. Appleyard. "A Guide Toward Street Livability and Autonomous Vehicles."
17. Appleyard et al. "Toward a Guide for One-Way Street Conversions"
18. Appleyard et al. "Campus climate action plans issues opportunities in lessons for practitioners."
19. Appleyard et al. "A guidebook campus climate action planning."
20. Appleyard et al. "Correlates of Active commutes on College Campuses."
21. Appleyard, Schroeder. "Appreciating the Known Unknowns: A Tool To Guide Innovative Transportation Projects For Sustainability".
22. Appleyard, Reinke, Schroeder. "Processes over Prescriptions: A What, Why and Who Framework for Institutionalizing Urban Sustainability into Transportation and Land Use Planning".
23. Appleyard et al. "Bikeshare implementation in relation to increased transit usage."
24. Appleyard et al. "Dynamic Ridesharing and Correlates with Decreases in DUIs."
25. Appleyard, Ferrell. 2014. "The First and Last Mile Travel Choice Effects of Crime: An Examination of The Location of Crime and its Association with Sustainable and Healthy Access to Transit".
26. Ryan, Appleyard. "Estimating Daily Bicycle Volumes Using Continuous Automated Bicycle Count Data" with Sherry Ryan.
27. Appleyard, "Smart Growth Catalysts"
28. Appleyard, Ferrell. "Effectively Collaborating to Provide Transit Options for the Elderly and Disabled: Building Consensus and Partnerships for Implementing MAP-21's Section 5310 Program in California".
29. Appleyard, "Processes over Prescriptions: A What, Why and Who Framework for Institutionalizing Livability and Sustainability into Transportation and Land Use Planning".

## PROFESSIONAL ARTICLES

- Appleyard, Bruce, and Lindsey Cox. 2006. "At Home in the Zone." *Planning* 72, no. 9 (October 2006). <http://trid.trb.org/view/2006/C/794694>.
- Appleyard, Bruce. 2005. "The Smart Growth Catalysts." *Planning* 71, no. 11 (December 2005). <http://trid.trb.org/view/2005/C/771708>.
- Appleyard, B. S. 2003. "Planning Safe Routes To School." *Planning* 69, no. 5 (May 2003). <http://trid.trb.org/view/2003/C/646133>. p. 34-37
- Frank, L. D., S. Kavage, and B. Appleyard. 2007. "The Urban Form and Climate Change Gamble: How Transportation and Land Development Affect Greenhouse Gas Emissions." *Planning* 73, no. 8 (August 2007). <http://trid.trb.org/view/2007/C/1154934>. p. 18-23

## FUNDED TRAINING GRANTS

1. Grants and Research Enterprise Writing (GREW) fellowship – to provide training and workshops in support of my growing research portfolio.

## REFEREED PROCEEDINGS

7. Appleyard, Ferrell. 2015. "The Meaning of Mean Streets: Crime, Casualty and Mode Choice: The Association between Crime, Casualties, Gender and Sustainable & Active Travel Choices".
  - a. National Conference of the Transportation Research Board. Washington DC. January, 2015.
  - b. International Conference Transport and Health. London, UK. July, 2015.
  - c. Transportation Research Board Conference on Transport and Public Health Washington DC. April, 2015
8. Appleyard, Ferrell. 2015. "The First and Last Mile Travel Choice Effects of Crime: An Examination of The Location of Crime and its Association with Sustainable and Healthy Access to Transit".
  - d. National Conference of the Transportation Research Board. Washington DC. January, 2015.
9. Appleyard. 2015. What Makes a Livable City? International Conference on Making Cities Livable. Bristol, UK. June 2015.
10. Appleyard, B. 2015. "Can Creating Livable and Complete Streets Improve Children's Spatial Knowledge? A Cognitive Mapping Study of Traffic and Safe Routes to School (SR2S) Projects in a Suburban Context". International Conference Transport and Health. London, UK. July, 2015.
11. Appleyard. 2015. Street Level Livability Ethics. International Conference Transport and Health. London, UK. July, 2015.
12. Appleyard. 2014. Deconstructing The D-Variables: New Methods To Measure The Built Environment For Travel Behavior Research. *Accepted for inclusion in 2014 Transportation Research Board Compendium of Papers. 25 pages*
13. Ryan, S., Appleyard, B., Schroeder, C., and Andrew Prescott. 2014. "Estimating Daily Bicycle Volumes Using Manual Short Duration and Automated Continuous Counts." *Accepted for presentation and for inclusion in 2014 TRB Compendium of Papers. 16 pages.*
14. Appleyard, Ferrell, Carroll, Taecker. 2014. "Methods, Measures & Strategies Toward Creating a Taxonomy of Transit Corridors for Livability Optimization". *Accepted for presentation and for inclusion in 2014 Transportation Research Board Compendium of Papers.*
15. Appleyard, B. January, 2014. New Methods to Measure the Built Environment for Travel Behavior Research and Practice: Better Pathways Toward Understanding Sustainable and Active Pedestrian and Bicycle Travel. Presentation accepted at the Transportation Research Board 93rd Annual Meeting
16. Appleyard, Ferrell, Carroll, Taecker. January, 2014. Methods, Measures & Strategies Toward Creating a Taxonomy of Transit Corridors for Livability Optimization. Presentation accepted at the Transportation Research Board 93rd Annual Meeting.
17. Appleyard, Ferrell, Carroll, Taecker. January, 2014. Toward Livability Ethics: A Framework to Guide Planning, Design, and Engineering Decisions. Presentation accepted at the Transportation Research Board 93rd Annual Meeting.

18. Ryan, S., **Appleyard**, B., Schroeder, C., and Andrew Prescott. January, 2014. "Estimating Daily Bicycle Volumes Using Manual Short Duration and Automated Continuous Counts." Presentation accepted at the Transportation Research Board 93rd Annual Meeting.
19. **Appleyard**, B. August 8, 2013. *Big Social Media, Civic Operations, and Urban Planning Research*. NSF-CDI Specialist Meeting: Knowledge Discovery in Cyberspace and Big Data. San Diego, CA.
20. **Appleyard**, B. July 13, 2013. *Knowledge is Power: Measuring, Understanding and Realizing Sustainability, Livability and Social Equity in Scenario Planning*. Environmental Systems Institute Research (ESRI) Conference, San Diego, CA.
21. **Appleyard**, B. November 16, 2012. *Knowledge is Power: Measuring, Understanding and Realizing Social Equity in Scenario Planning*. Open Source Planning Group Conference, Portland, OR.
22. **Appleyard**. 2012. Deconstructing The D-Variables: New Methods To Measure The Built Environment For Travel Behavior Research. *Accepted for inclusion in 2014 Transportation Research Board Compendium of Papers. 25 pages.*
23. **Appleyard**, B. 2011. "Street Conflict, Power and Promise: Livable Streets Humanizing the Auto-Mobility Paradigm." World Transport Policy and Practice. Volume 17 (June).
24. **Appleyard**. 2012. Relationships Between Crime, the Built Environment and Sustainable and Healthy Travel Choices to Access Transit Stations. Submitted for consideration by the National Academies of Science's *Transportation Research Record (TRR)*.
25. **Appleyard** et al. 2012. TOD and Employment Resiliency. Submitted for consideration by the National Academies of Science's *Transportation Research Record (TRR)*.
26. **Appleyard**, B. October 17, 2012. Rail~Volution, Los Angeles, CA.
  - o *Street Conflict, Power and Promise: Realizing Livable and Complete Streets*
27. **Appleyard**, B. March 20, 2012. New Delhi, Volvo Center for "Safety, Sustainability, and Future Urban Transport" Conference, New Delhi, India, *Toward a Definition of Livability to Guide Planning and Design Decisions*
28. **Appleyard**, B. February 20, 2012. Smart Growth Partnership Conference, San Diego, CA  
*From Temporary to Sustainable Paradise: 'Smart Growth Catalysts' & the Battle for Planning in the San Diego/Tijuana Region*. Discussed Lynch and Donald Appleyard's 1974 bi-national regional vision for the San Diego/Tijuana Region "Temporary Paradise?" highlighting the role NGO's can play as "Smart Growth Catalysts" in assisting local and regional governments toward effective achievement of sustainability objectives.
29. **Appleyard**, B. September 7, 2011. Conference on Performance Measures for Transportation and Livable Communities, Austin, TX
  - o *Principles for Measuring and Achieving Livability to Guide Planning and Design Decisions*
30. **Appleyard**, B. April 10, 2011: National Planning Conference, American Planning Association, Boston, MA.
  - o Overcoming Barriers to Complete and Livable Streets

## **SERVICE FOR THE UNIVERSITY, THE PROFESSION, AND THE COMMUNITY**

### Service for the University

#### Committee Assignments

1. Assistant Director: Active Transportation Research Center (SDSU)
2. Associate Director of the Human Dynamics in our Mobile Age (HDMA) Center` (SDSU)
3. Member of the SDSU Faculty Senate Sustainability Committee (SSC)

#### Other Service

1. Involvement in SAGE community outreach program through majority of classes.
2. Faculty in Residence (2014-Present)
  - a. Teach Health and Wellness Seminar for Freshman (Fall 2014 and 2015) Mentor and advise students, run academic programs for students.
3. Initiative to create the Action Institute for Sustainability, Livability, and Equity (AISLE)
4. Initiative for development of a joint PhD/MCP/MPP program with the UC Davis.
5. Initiative for City Planning Program accreditation by the Association of Collegiate Schools of Planning (ACSP).

### Service for the Profession

#### Officer in a Professional Organization

1. Participation as Member or Friend of the following National Academy of Science's Transportation Research Board Committees:
  - a. Transportation and Land Development
  - b. Pedestrian Committee,
  - c. Bicycle Committee,
  - d. Transportation and Sustainability,
  - e. Public Transportation Planning and Development,
  - f. Intermodal Transfer Facilities.
2. Reviewer for the Journal of Transport and Land Use, and the Transportation Research Record: Journal of the Transportation Research Board (TRR).
3. UC Berkeley ITS Pedestrian and Bicycle Safety Assessment Community Workshops. (2009-Present)

#### Service for the Community

1. Executive Board Member of San Diego's Citizens Coordinate for Century 3 (2013-2015)
2. Advisory Board Member of Circulate SD (formerly Walk San Diego and Move SD) (2013-2015)

#### Speeches

1. **Appleyard**, B. October 9, 2013, Keynote Speaker for Circulate SD's annual fundraiser (formerly Walk San Diego and Move SD), *Advocacy, Inclusion and Effectiveness: The Past and Future of Planning in The San Diego/Tijuana Region*.
2. **Appleyard**, B. August 17, 2011 Presentation to all Planning Directors in Salt Lake County
  - a. *Making Regional Planning Work to Realize Regional Visions: The HUD Sustainable Communities Initiative*
3. **Appleyard**, B. May 13, 2011. Citizen's for a Century 3's (C3s) "Breakfast Dialogue" and evening Membership Meeting, San Diego, CA **From Temporary to Sustainable Paradise: "Smart Growth Catalysts Discussed the past, present and future of Lynch and Appleyard's 1974 vision for the San Diego/Tijuana Region.**
4. **Appleyard**, B. October 16, 2012, San Diego State University, *New Methods to Measure, Understand and Realize Healthy and Sustainable Urban Ecologies: From City Form & Function to Livability*.
5. **Appleyard**, B. October 17, 2012. Windsor Town Council, *Creating Complete and Livable Streets*

#### COMMUNITY SERVICE/POLITICAL APPOINTMENTS

- Planning Commissioner, City of Charlottesville, VA
- Board of Zoning Appeals Member, City of Charlottesville, VA (judicially appointed)
- MPO Technical Advisory Member on behalf of Charlottesville Planning Commission
- Governor's Appointee to Virginia's Commission on Federal Transportation Planning and Funding
- Governor's Appointee to the Virginia State Transportation Plan Task Force
- Executive Board Member of BikeWalk+ Virginia