

## CURRICULUM VITAE

### **Bruce S. Appleyard**

City Planning/School of Public Affairs

San Diego State University

5500 Campanile Drive

San Diego, CA 92182-1308

O (619) 594-1180; C (503) 810-7249

bappleyard@mail.sdsu.edu

[https://spa.sdsu.edu/people/spa\\_profiles/bruce-appleyard](https://spa.sdsu.edu/people/spa_profiles/bruce-appleyard)

---

## EDUCATION

---

<b>University of California, Berkeley</b> PhD	2010 City and Regional Planning
<b>University of California, Berkeley</b> MCP	1997 (4.0 GPA) City and Regional Planning
<b>University of California, Berkeley</b> BA	1989 Geography

---

## TEACHING POSITIONS

---

<b>Associate Professor</b> San Diego State University	Fall 2017 – Present City Planning & Public Administration
<b>Assistant Professor</b> San Diego State University	Fall 2013 – Fall 2017 City Planning & Public Administration
<b>Associate Research Professor</b> University of Utah	Winter 2011 – Winter 2012 City Planning & Architecture
<b>Adjunct Professor</b> Portland State University	Winter 2004 City & Regional Planning
<b>Adjunct Professor</b> University of Virginia	Spring 2003 City & Regional Planning

## PROFESSIONAL GROWTH

### Refereed Journal Articles

(Underline = Student Author; With \* = Funded Student Author from my grants & contracts)

#### AFTER TENURE

1. **Appleyard, B.**, Riggs, W., Stanton, J.\* (2023). “Designing transportation and land use coordination: frameworks for measuring, understanding, and realizing sustainability, livability, and equity”. *Local Environment: The International Journal of Justice and Sustainability*.  
Lead Author Role: Conceived of the overall design; authored the manuscript and was responsible for its shape and form throughout the process.  
Impact Factor: 3.590
2. **Appleyard, B.** 2022. "Livable Streets for Schoolchildren: A Human Centered Understanding of the Cognitive Benefits of Safe Routes to School". *Journal of Urban Design*. (25 Pages)  
Acceptance Rate: 20%. Impact Factor: 2.104.  
<https://doi.org/10.1080/13574809.2022.2070145>  
Lead Author Role: Conceived of the overall design; authored the manuscript and was responsible for its shape and form throughout the process.
3. **Appleyard, B.** 2022. "Designing the Humanity of Place: From The Human-Centred to Ecosystem Scale". *Journal of Urban Design*. (5 pages)  
Acceptance Rate: 20%. Impact Factor: 2.104.  
<https://doi.org/10.1080/13574809.2022.1996914>  
Lead Author Role: Conceived of the overall design; authored the manuscript and was responsible for its shape and form throughout the process.
4. **Appleyard, B.**, Riggs, W. 2021. “Street Rights and Livability: Ethical Frameworks to Guide Planning, Design, and Engineering”. *Journal of Transportation and Land Use*. (21 Pages)  
Acceptance Rate: 20%. Impact Factor: 1.11.  
<https://doi.org/10.5198/>  
Lead Author Role: Conceived of the overall research design; gathered, cleaned and analyzed the data; authored the manuscript and was responsible for its shape and form throughout the process.
5. Frank, **Appleyard**, Ulmer, Fox, Chapman. 2021. “Comparing walkability methods: Creation of street smart walk score and efficacy of a code-based 3D walkability index”.  
*Journal of Transport and Health*. (21 pages)  
Acceptance Rate: 30%; Impact Factor: 2.050.  
<https://doi.org/10.1016/j.jth.2020.101005>  
Co-Author Role: Data preparation, analysis, and contributed to the authorship of the manuscript.
6. Abdel-Samad, M., Calzo, J. P., Felner, J. K., Urada, L., Verbyla, M. E., Madanat, H., Adams, B. E., Alves, T., **Appleyard, B.**, Chanin, J., Flanigan, S., Foad, H., Ginsberg, M., Higgins, M., Ko, E., Maher, K., Mladenov, N., Peattie, P., Welsh, M., & Sleet, D. 2021. Conceptualizing an Interdisciplinary Collective Impact Approach to Examine and Intervene in the Chronic Cycle of Homelessness. *International journal of environmental research and public health*, 18(4), 2020.  
Acceptance Rate: 30%; Impact Factor: 3.39  
<https://doi.org/10.3390/ijerph18042020>
7. Riggs, **Appleyard, B.** Johnson M. 2020. “A Design Framework for Livable Streets in the Era of Autonomous Vehicles.” *Urban Planning and Transport Research*, 8:1, 125-137 (12 pages),

DOI: 10.1080/21650020.2020.1749123

Acceptance Rate: 20%. Impact Factor: 1.11.

Co-Author Role: Equally performed all tasks alongside the first author.

8. **Appleyard, B., Frost, A. \*, Allen, C.\***. 2019. "Are All Transit Station Areas Equal and Equitable? Calculating the Sustainability, Livability, Health, & Equity Performance of Smart Growth and TOD." *Journal of Transport and Health*. Volume 14 (15 Pages). <https://doi.org/10.1016/j.jth.2019.100584>.  
Acceptance Rate: 30%; Impact Factor: 2.050.  
Lead Author Role: Authored research plan; Provided data, oversaw data preparation, and conducted analysis; authored manuscript and managed responses to reviewer's comments. \*SDSU Funded Student Authors
9. Renne, J., **Appleyard, B.** (2019) "Twenty-Five Years in the Making: TOD as a New Name for an Enduring Concept." *Journal of Planning Education and Research*. (7 Pages.)  
Acceptance Rate: 35%; Impact Factor of 2.667.  
Co-Author Role: Equally performed all tasks with the first author on this Special Issue celebrating the 25<sup>th</sup> anniversary of Transit Oriented Development (TOD). We shared the management of the reviews of all articles, worked with authors to get their manuscripts through the process and final edits; managed acceptance of papers; co-authored overarching narrative articles synthesizing key points and findings of all papers.
10. Crist, K. , Schipperijn, J. , Ryan, S., **Appleyard, B.**, Godbole, S. and Kerr, J. 2019. "Fear Factor: Level of Traffic Stress and GPS Assessed Cycling Routes." *Journal of Transportation Technologies*, 9, 14-30 (16 Pages). doi: 10.4236/jtts.2019.91002. Impact Factor 1.27.  
Co-Author Role: Assisted and financially supported data acquisition and analysis; Advised and assisted with authorship and revision of manuscript; responded to reviewer's comments.
11. Gibbons, J., Malouf, R., Spitzberg, B., Martinez, L., **Appleyard, B.**, Thompson, C., Nara, A., Tsou, M. 2019. "Twitter-Based Measures of Neighborhood Sentiment as Predictors of Residential Population Health." *PLOS ONE*, 14, no. 7. <https://doi.org/10.1371/journal.pone.0219550>.  
Acceptance Rate: 48.9%. Impact Factor: 2.776.  
Co-Author Role: Assisted with data acquisition and analysis; authored and revised manuscript; responded to reviewer's comments.
12. Mahdie, H., Jahangiri, A., Sener, I., Munira, S. Owens, J., **Appleyard, B.**, Ryan, S., Turner, S., and Ghanipoor Machiani, S. 2019. "Identifying High-Risk Intersections for Walking and Bicycling Using Multiple Data Sources in the City of San Diego." *Journal of Advanced Transportation*. <https://doi.org/10.1155/2019/9072358>.  
Acceptance Rate: 30%. Impact Factor: 1.983.  
Co-Author Role: Assisted and financially supported data acquisition and analysis; authored and revised manuscript; responded to reviewer's comments.
13. Gibbons, J., Nara, A., **Appleyard, B.** 2018. "Exploring the Imprint of Social Media Networks on Neighborhood Community through the Lens of Gentrification." *Environment and Planning B*. 45(3), 470–488 (18 Pages). DOI 10.1177/2399808317728289.  
Acceptance Rate: 31.4%; Impact Factor: 2.046

Co-Author Role: Initiated the collaboration; managed the initial submission; assisted and financially supported the data acquisition and preparation; conducted analysis, authored and revised manuscript, and responded to reviewer's comments.

\*\* Awarded the 2019 Michael Breheny Prize for the Best 2018 Paper in  
*Environment and Planning B: Urban Analytics and City Science*

14. **Appleyard, B.**, Stepner, M. 2018. "The Dreams and Realities of Temporary Paradise? *Journal of the American Planning Association*. Pages 230-236 (6 Pages). doi.org/10.1080/01944363.2018.152817. Acceptance Rate: 25%. Impact Factor: 2.719.

Lead Author Role: Envisioned the project, conducted analysis, authored manuscript, and managed responses to reviewer's comments.

15. Frost, A.\*, **Appleyard, B.**, Gibbons, J., Ryan, S. 2018. "Quantifying the Sustainability, Livability and Equity Performance of Urban and Suburban Places in California." *Transportation Research Record: Journal of the National Academies of Sciences' Transportation Research Board*, 2672(3), pp.130-144 (14 Pages). DOI: 10.1177/0361198118791382

Acceptance Rate: 20%; Impact Factor: 1.11.

Co-Author Role: Mentored student throughout thesis and process of transforming it for publication; provided data and financial support; consulted on analysis, guided interpretation of findings; edited thesis and prepared manuscript for submission; managed and authored responses to reviewer's comments.

16. **Appleyard, B.**, Frost, A.\*, Cordova, E.\*, McKinstry, J.\* 2018. "New Pathways Toward Zero-Carbon Campus Commuting: Innovative Approaches in Measuring, Understanding, and Reducing Greenhouse Gas Emissions". *Transportation Research Record: Journal of the National Academies of Sciences' Transportation Research Board*, Vol. 2672(24) 87-97 (10 Pages). doi.org/10.1177/0361198118798238.

Acceptance Rate: 20%; Impact Factor: 1.11.

Lead Author Role: Envisioned and successfully awarded funding for the project; authored research plan; provided data, oversaw data preparation, and conducted analysis; authored manuscript and managed responses to reviewer's comments.

\*SDSU Funded Student Authors

17. Cherry, Riggs, **Appleyard**, Dhakal, Frost\*, Jeffers. 2018. New and Unique Aspects of University Campus Transportation Data to Improve Planning Methods. *Transportation Research Record: Journal of the National Academies of Sciences' Transportation Research Board* . doi.org/10.1177/0361198118781659.

Acceptance Rate: 20%; Impact Factor: 1.11.

Co-Author Role: Equally performed all tasks with first and second authors.

\*SDSU Funded Student Author

18. Riggs, W., **Appleyard, B.** 2018. "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*.

Impact Factor: .59.

<https://doi.org/10.1080/17549175.2017.1422535>

Co-Author Role: Equally performed all tasks with the first author.

19. **Appleyard, B.**, Ferrell, C., Taecker, M. 2017. "Transit Corridor Livability: Realizing the Potential of Transportation and Land Use Integration". *Transportation Research Record: Journal of the National Academies of Sciences' Transportation Research Board*. <https://doi.org/10.3141/2671-03>.  
Acceptance Rate: 20%. Impact Factor: 1.11.  
Lead Author Role: Authored research plan; Acquired and oversaw data preparation; Conducted analysis; Authored manuscript and managed responses to reviewer's comments.
20. **Appleyard, B.**, Ferrell, C., 2017. "Crime and Active & Sustainable Travel Behavior: New Geo-Spatial and Statistical Methods to Explore the Influence of Crime on Mode Choice". *Journal of Transport and Health*. 15 Pages. DOI: 10.1016/j.jth.2017.04.002.  
Acceptance Rate: 30%. Impact Factor: 2.050.  
Lead Author Role: Envisioned the project. authored research plan; acquired, cleaned, and prepared data; conducted analysis; authored manuscript and managed responses to reviewer's comments.
21. **Appleyard, B.** 2017. "The Meaning of Livable Streets to Schoolchildren: An Image Mapping Study of Traffic Exposure on Children's Cognitive Development". *Journal of Transport and Health*. 13 pages.  
Acceptance Rate: 30%. Impact Factor: 2.050.  
Lead Author Role: Envisioned the project. authored research plan; acquired, cleaned, and prepared data; conducted analysis; authored manuscript and managed responses to reviewer's comments.  
Featured in the Special Issue on Walking & Walkability [doi.org/10.1016/j.jth.2016.08.002](https://doi.org/10.1016/j.jth.2016.08.002)  
\*\*\*\*\*

BEFORE TENURE

22. **Appleyard, B.** and Ferrell, C., Taecker, M. 2016. "Toward a Typology of Transit Corridor Livability: Exploring the Transportation/Land Use/Livability Connection." *Transportation Research Record: Journal of the Transportation Research Board*.  
Acceptance Rate: 20%; Impact Factor: 1.11.
23. **Appleyard, B.** 2016. "New methods to measure the built environment for human-scale travel research: Individual access corridor (IAC) analytics to better understand sustainable active travel choices." *Journal of Transport and Land Use*. 9 (2):121-145.  
<https://www.jtlu.org/index.php/jtlu/article/view/786>  
Acceptance Rate: 20%. Impact Factor: 1.11.
24. **Appleyard, B.**, Ferrell, C., Carroll, M., Taecker, M. 2014. "Toward Livability Ethics: A Framework to Guide Planning, Design, and Engineering Decisions." *Transportation Research Record: Journal of the Transportation Research Board*. 2403:62-71. [doi.org/10.3141/2403-08](https://doi.org/10.3141/2403-08)  
Acceptance Rate: 20%; Impact Factor: 1.11.
25. Nelson, A., **Appleyard, B.**, Kannan, S., Ewing, R., Miller, M., and Dejan E. 2013. "Bus Rapid Transit and Economic Development: Case Study of the Eugene-Springfield BRT System." *Journal of Public Transportation* 16(3): 41-57. This journal has a SCImago Journal Rank (SJR) indicator impact factor of .354, and a 2014 Thompson Impact Factor of 0.603.  
<http://scholarcommons.usf.edu/cgi/viewcontent.cgi?article=1055&context=jpt>
26. **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*. Volume 2303: 38-45.

(doi:10.3141/2303-05).

Acceptance Rate: 20%; Impact Factor: 1.11.

27. Ewing, R., Nelson, A., Bartholomew, K., Emmi, P., and **Appleyard, B.** 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.
28. Cervero, R., Rood, T., and **Appleyard, B.** 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.

### Manuscripts Under Review

1. **Appleyard, B.** (Revise and Resubmit). "Livability Access as a Framework for Guiding Transportation and Land Use Integration: An Evaluation of US Transit Oriented Developments (TOD)". *Journal of Local Environment*.
2. **Appleyard, B.,** Riggs, W., (Revise and Resubmit). "Street livability, health, and humanity in the era of driverless cars". *Transportation Research Interdisciplinary Perspectives*.
3. Chanin, J., Gibbons, J. **Appleyard, B.** (Revise and Resubmit). Does it matter where? Evaluating the spatial heterogeneity of police searches. *Police Practice and Research*
4. Renne, J., Chava J., **Appleyard, B.,** Tolford, T. (Revise and Resubmit). Rent Growth Near Rail Stations after the Great Recession . *Journal of Sustainable Real Estate*
5. **Appleyard, B.,** Gibbons, J. (Under Review). "American Apartheid: Planning and The Harms Inflicted on African Americans". *Journal of the American Planning Association*.
6. **Appleyard, B.,** John Renne (Under Review). "Toward Typologies for Transit Oriented Developments (TOD): Measuring The Urban Form of Transit Station Areas". *Journal of Urban Design*.
7. **Appleyard, B.** (Under Review). "Transportation and land use coordination: frameworks for measuring, understanding, and realizing sustainability, livability, and equity". *Journal of Local Environment*.
8. **Appleyard, B.** Sherry Ryan, PhD Robert Schneider, PhD Offer Grembek, PhD Christopher R. Cherry, PhD Shashi Nambisian, PhD William Riggs, PhD. (Under Review). A National Research Agenda for Pedestrian and Bicycle Safety. *Journal of Transportation and Land Use*.
9. **Appleyard, B.,** Garrett, T.\* (Under Review) Incorporating Public Health into Transportation Decision Making: A California Transportation Commission Case Study. *Transportation Research Record: Journal of the Transportation Research Board*.
10. **Appleyard, B.,** Riggs, W. (Under Review). From Commuter Colleges to Residential Universities: A New Housing, Parking, and Environmental Review (CEQA) Paradigm for the California State University System - One of the World's Largest University Systems. *Transportation Research Record: Journal of the Transportation Research Board*.
11. **Appleyard, B.,** Stanton, J\*., Gibbons, J., Ryan, S. (Under Review). "Sustainably Linking Travel and

Community: Measuring Vehicle Miles Traveled, Greenhouse Gas Emissions, and Trip Length by Neighborhood Place Type”. *Transportation Research Record: Journal of the Transportation Research Board*.

12. **Appleyard, B.** (Under Review). “Crime Casualty and Mode Choice”. *Transportation Research Record: Journal of the Transportation Research Board*.
13. **Appleyard, B.,** Abdel Samad, M., Stasio, J.\*, Rumfola, M.\* (Under Review) Understanding the Everyday Lives of the Houseless Through Cognitive/Image Maps: A Human-Centered Analysis of Their Home Territories and Needs. *Journal of Planning Education and Research*.

### **Refereed Books and Peer-Reviewed Research Reports**

#### **AFTER TENURE**

1. **Appleyard, B.** Stasio, J.\*, Rumfola, M.\*, Flores, A.\*, Almanza, M.\*, Gidvani, R\* 2022. Understanding the Everyday Lives of the Houseless Through Cognitive Maps: A Human Centered Analysis of Their Home Territories and Needs. *Socio-Economic Vulnerabilities Initiative (SEVI)*.
2. **Appleyard, B.,** Garrett, T.\* (Under Review) Incorporating Public Health into Transportation Decision Making: A California Transportation Commission Case Study. Mineta Transportation Institute. Funded through a grant from the US DOT University Transportation Center Program
3. **Appleyard, B.,** Appleyard, D. 2020. *Livable Streets 2.0*. Elsevier. This book has 610 pages and 23 chapters, as well as an extensive Foreword & Introduction.  
Lead Author Role: Conducted extensive field research and photography; conducted extensive review of the literature and professional practice with extensive interviews; authored new manuscript incorporating co-author’s material; extensive in the field research and managed responses to reviewer’s comments.
4. **Appleyard, B.,** Stanton, J\*., Allen, C\*. 2020. A Framework and Tools For Measuring, Understanding, And Realizing Transportation/Land-use Coordination For Sustainability, Livability, And Equity. Mineta Transportation Institute. Funded through a grant from the US DOT University Transportation Center Program.
5. **Appleyard, B.,** Stanton, J\*., Allen, C\*. 2020. Toward a Guide For Smart Mobility Corridors: Frameworks and Tools for Measuring, Understanding, and Realizing Transportation Land Use Coordination. Mineta Transportation Institute. Funded through a grant from the US DOT University Transportation Center Program.
6. Foote, D., **Appleyard, B.,** Dillmann, K., Yavari, A. 2017. Assessing Pedestrian and Bicycle Safety Assessments. California Office of Traffic Safety.
7. Mekuria, **Appleyard,** Nixon. 2017 “Improving Livability Using Green and Active Modes: A Traffic Stress Level Analysis of Transit, Bicycle, and Pedestrian Access and Mobility”.  
Funded through a \$75,000 grant from the US DOT University Transportation Center Program through the Mineta Transportation Institute.

\*\*\*\*\*

#### **BEFORE TENURE**

8. Ferrell, C., **Appleyard, B.**, Taecker, M., Allen, C\*. et al. 2016. *Handbook for Building Livable Transit Corridors: Methods, Metrics and Strategies*. Washington, D.C.: Transit Cooperative Research Program (TCRP) of the Transportation Research Board (TRB) of the National Academies of Sciences. National Academies Press. DOI: 10.17226/23630.  
<https://www.nap.edu/catalog/23630/livable-transit-corridors-methods-metrics-and-strategies>  
Co-Author Role: Lead author on \$350,000 2011 grants that earned the project; researched, authored and reviewed all material; conducted all statistical analysis; managed creation and development, and programming of the *Livability Calculator*; responded to all reviewer's comments.
9. Ferrell, C., Mathur, S., **Appleyard, B.** 2015. *Neighborhood Crime and Transit Station Access Mode Choice*. San Jose, CA: – Mineta Transportation Institute (MTI).  
<http://transweb.sjsu.edu/project/1107.html>
10. Ferrell, C., **Appleyard, B.** 2015. *Building Consensus and Partnerships for Implementing the MAP-21 Section 5310 Program in California*. San Jose, CA: Mineta Transportation Institute..  
<http://transweb.sjsu.edu/project/1107.html>

### Refereed Book Chapters And Sections

#### AFTER TENURE

1. **Appleyard, B.**, Street design for active travel (2021). *Encyclopedia of Transportation*. Elsevier.
2. **Appleyard**, Cocco, Jankowski. 2020. “A new satellite campus for San Diego State University: Mission Valley stadium site.” In *The International Geodesign Collaboration: Changing Geography by Design*. Edited by Tom Fisher, Brian Orland, Carl Steinitz. Esri Press. 200 pp.
3. Frank, L. Ulmer, J. **Appleyard, B.** Bigazi, A. 2019. “Complete and Healthy Streets.” *Urban Design Companion*. Editors: Loukaitou-Sideris & Banerjee. *Routledge*.
4. **Appleyard, Frost\***. 2019. Livability as a Framework for Understanding and Guiding Transportation and Land Use Integration. *Transportation, Land Use and Environmental Planning*, 978-0-12-815167-9, *Elsevier*. Editor: Elizabeth Deakin.
5. Christopher, McAndrews, **Appleyard**, et al. 2019. “Arterial Roadways Research Needs and Concerns: Informing the Planning, Design, and Operation of Arterial Roadways Considering Public Health for The National Academies of Sciences’ Transportation Research Board”
6. **Appleyard, B.**, Riggs. W. 2018. “A Vision For Livability.” *Disruptive Transport: Driverless Cars, Transport Innovation and the Sustainable City of Tomorrow*, edited by William W. Riggs. New York, Routledge.
7. **Appleyard B.** 2018. A Declaration of Interdependence for San Diego/Tijuana: Toward the Dreams of “Temporary Paradise?”. *Temporary Paradise? A Look At The Special Landscape of the San Diego Region. A Commemorative Edition with Contemporary Essays /¿Un paraíso temporal? Un vistazo al paisaje especial de la región de San Diego. Edición conmemorativa con ensayos contemporáneos [Edición Bilingüe]*. Ed. Tito Alegria. El Colegio de la Frontera Norte.
8. **Appleyard B.** 2018. Revisiting “Temporary Paradise?”. *Temporary Paradise? A Look At The Special Landscape of the San Diego Region. A Commemorative Edition with Contemporary Essays /¿Un*



paraíso temporal? Un vistazo al paisaje especial de la región de San Diego. Edición conmemorativa con ensayos contemporáneos [Edición Bilingüe]. Ed. Tito Alegria. El Colegio de la Frontera Norte.

9. **Appleyard B.** 2018. Una Declaración de Interdependencia para San Diego-Tijuana: Tras los Sueños de “¿Un Paraíso Temporal?”. *Temporary Paradise? A Look At The Special Landscape of the San Diego Region. A Commemorative Edition with Contemporary Essays /¿Un paraíso temporal? Un vistazo al paisaje especial de la región de San Diego. Edición conmemorativa con ensayos contemporáneos [Edición Bilingüe].* Ed. Tito Alegria. El Colegio de la Frontera Norte.
10. **Appleyard B.** 2018. Revisitando ¿Paraíso Temporal? *Temporary Paradise? A Look At The Special Landscape of the San Diego Region. A Commemorative Edition with Contemporary Essays /¿Un paraíso temporal? Un vistazo al paisaje especial de la región de San Diego. Edición conmemorativa con ensayos contemporáneos [Edición Bilingüe].* Ed. Tito Alegria. El Colegio de la Frontera Norte.

\*\*\*\*\*

#### BEFORE TENURE

11. **Appleyard, B.** 2016. Urban Planning: Human Dynamics *International Encyclopedia of Geography.* New York: Wiley Press
12. **Appleyard, B.** 2013. “Livable Streets for School Children.” In *Safety, Sustainability, and Future Urban Transport.* Edited by Professor Dinesh Mohan, India Institute of Technology. New Delhi, India: Eicher Goodearth, pp. 67-80.
13. **Appleyard, B.** 2009. “Pedestrian and Bicycle Planning.” *Local Planning: Contemporary Principles and Practice.* Editors: Hack et al. Washington, DC: International City Managers Association (ICMA).
14. **Appleyard, B.** 2009. “Parks”. *Encyclopedia of the City.* Editor: Roger Caves. New York. Routledge, pp. 344-345.
15. **Appleyard, B.** 2009. “Allan Jacobs”. *Encyclopedia of the City.* Editor: Roger Caves. New York: Routledge, p. 274.
16. **Appleyard, B.** 2009. “Planning Commissions”. *Encyclopedia of the City.* Editor: Roger Caves. New York. Routledge, p. 351-352.

#### Textbooks And Other Teaching Aids

##### *Textbooks/Handbooks:*

1. Ferrell, C., **Appleyard, B.**, Taecker, M., Allen, C\*. et al. 2016. *Handbook for Building Livable Transit Corridors: Methods, Metrics and Strategies.* Washington, D.C.: Transit Cooperative Research Program (TCRP) of the Transportation Research Board (TRB) of the National Academies of Sciences. National Academies Press.
2. Moore, Thorsnes, **Appleyard.** 2007. The Transportation/Land Use Connection. *Planners Press: Publisher of the American Planning Association*

##### *Software*

1. **Appleyard, B., Allen, C.\* , Cordova, E.\* , Tinglof, M.\* , Tinglof, J.\* , Martin, G\***  
Smart Mobility Calculator: A housing, transportation, and climate action coordination tool, created for Caltrans.
2. **Appleyard, B., Allen, C.\* , Cordova, E.\* .** 2018-2019. Smart Growth Equity Calculator: A housing, transportation, and climate action coordination tool. <https://smartgrowthcalculator.netlify.com/>
3. **Appleyard, B., Ferrell, C., Allen, C.\* , Armusewicz, C\*., Cordova, E.\* , Schroeder, C.\* . Beheshti, A.\*** 2016. *Livability Calculator for the TCRP H-45 Handbook, Building Livable Transit Corridors: Methods, Metrics and Strategies*. Washington, DC: Transit Cooperative Research Program (TCRP) of the Transportation Research Board (TRB) of the National Academies of Sciences. <http://www.trb.org/Main/Blurbs/174953.aspx>
4. **Appleyard, B., Schroeder, C.\*** 2014. *Sustainable Transportation Calculator*. Developed for the Smart Mobility Framework Implementation Project and Caltrans.

### Manuscripts in Process and Under Development

1. **Appleyard, B., Riggs, W.,** (Under Revision). “Street Livability, Health, and Humanity in a Future of Transportation Innovative, Disruption, and Automation: A Sustainable, Livable, and Equitable Foundation for the Future”. Last submitted to *Transportation Research Record: Journal of the Transportation Research Board*. This journal has a 2012 Source Normalized Impact per Paper (SNIP) factor of 0.894, a 2013 ISI Impact Factor of 0.556, and an acceptance rate of 20 %.
2. **Appleyard, B. Riggs, W.,** “Measuring and Doing the Right Things”: A Conceptual Transportation/Land Use Framework for the Future of Driverless Cars. Last submission: *Transportation Research Record*. Available on the Social Science Research Network (<https://papers.ssrn.com>).
3. **Appleyard, B. Riggs, W.,** A manifesto for street livability, health, and humanity in the era of driverless cars: 10 Principles Toward More Sharing and Less Sprawl.
4. Chanin, J., Gibbons, J., **Appleyard, B.** “Using the Veil of Darkness Approach to Examine Police Traffic and Pedestrian Stops in San Jose, CA”.
5. Gibbons, J., Nara, A., **Appleyard, B.** “Urban Form and Social Network Analytics Toward Understanding Gentrification and its Effects on Community and Society”.
6. **Appleyard, B., Schroeder.** “Appreciating The Known Unknowns: A Tool To Guide Innovative Transportation Projects For Sustainability”.
7. **Appleyard, B., Reinke, Schroeder.** “Processes over Prescriptions: A What, Why and Who Framework for Institutionalizing Urban Sustainability into Transportation and Land Use Planning”.
8. **Appleyard, B.** “Transit Oriented Development and Employment Resiliency”.
9. Ryan, **Appleyard, B.** “Utilitarian Bicycle Route Choice”. This manuscript examines the land use and roadway and bicycle facility characteristics of the routes chosen in order to inform local and regional

bicycle planning.

10. Ryan, **Appleyard, B.** “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.
11. Ryan, **Appleyard, B.** “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 usage by cyclists across gender, income and race/ethnicity.
12. Ryan, **Appleyard, B.** “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.

## **Refereed Proceedings**

1. **Appleyard, B.** Livable Streets 2.0: The Conflict, Power, and Promise of our Streets. Keynote Speech for the International Conference on Transport and Health (ICTH). June 2022
2. **Appleyard, B.** The Dreams and Realities of “Temporary Paradise?”. The National American Planning Association Conference. San Diego. May 2022.
3. **Appleyard, B.** “Street livability and beautification in an era of disruptive transport: a policy framework for planning and design”. National Conference of the Transportation Research Board. Washington, DC. January 2022.
4. Stanton, J., **Appleyard, B.**, Gibbons, J., Ryan, S. "Linking Travel and Place: Measuring Vehicle Miles Traveled and Trip Length by Place Type" National Conference of the Transportation Research Board. Washington, DC. January 2022.
5. **Appleyard, B.** "A Manifesto for the Future of Driverless Cars: The Transportation Land Use Connection". Smart Cities Virtual Roundtable: San Diego and the Netherlands. May 2021.
6. **Appleyard, B.** “Twenty-Five Years in the Making: TOD as a New Name for an Enduring Concept.” ACSP virtual conference. November 2020
7. **Appleyard, B.** “Toward an Ethical Livability of Empathy, Equity, and Justice and A Charter for Humane & Equitable Streets.” Accepted for presentation and in Compendium of Papers Women’s Issues in Transportation. Irvine, CA. September 2019.
8. Ryan, S., Stanton, J., **Appleyard, B.** 2019. “How Women are Excluded from Active Travel”. Accepted for presentation and in Compendium of Papers for Women’s Issues in Transportation. Irvine, CA. September 2019.

9. **Appleyard, B.** Workshop on the 10 Principles for the Future of Autonomous Vehicles”, Urbanism Next Conference, Portland, OR. May 2019.
10. **Appleyard, B.** “A Charter for Humane & Equitable Streets.” American Planning Association Conference. San Francisco, CA. April 2019.
11. **Appleyard, B.,** Frank, L. Developing an Enhanced Street Smart Walk Score for Health Research”. CARTEEH Conference. Austin, TX. February 2019.
12. **Appleyard, B.** Measuring, Understanding, and Realizing The Transportation Land Use Connection. CARTEEH Conference. Austin, TX. February 2019.
13. **Appleyard, B.,** Frost, A., Cordova, E., McKinstry, J. A Charter for Street Human Rights and Equity. National Conference of the Transportation Research Board. Washington, DC. January 2019.
14. **Appleyard, B.,** Keynote speaker for the 50th Anniversary of “Split 3 Urban Expansion.” Split, Croatia. June 2018.
15. Frost, A., **Appleyard, B.,** Gibbons, J., Ryan, S. Quantifying the Sustainability, Livability and Equity Performance of Urban and Suburban Places in California. National Conference of the Transportation Research Board. Washington, DC. January 2018.
16. **Appleyard, B.,** Frost, A., Cordova, E., McKinstry, J. New Pathways Toward Zero-Carbon Campus Commuting: Innovative Approaches in Measuring, Understanding, and Reducing Greenhouse Gas Emissions. National Conference of the Transportation Research Board. Washington, DC. January 2018.
17. **Appleyard, B.,** Riggs, W. “Doing the Right Things” Before Doing Things Right”: A Conceptual Transportation/Land Use Framework for the Future of Driverless Cars. National Conference of the Transportation Research Board. Washington, DC. January 2018.
18. **Appleyard, B.,** Street Livability Health and Humanity in the Era of Driverless Cars. Association of Collegiate Schools of Planning (ACSP) Conference, Denver, CO. October 2017.
19. **Appleyard, B.,** SDSU Climate Action Plan and SDSU Travel Survey. California Higher Education Sustainability Conference. UC Santa Barbara. July 2017.
20. **Appleyard, B.** Livable Streets 2.0 Street Conflict, Power, and Promise for Livability, Health, and Humanity in the Age of Driverless Cars--an International Perspective. International Conference on Transport and Health, Barcelona. June 2017.
21. **Appleyard, B.** Building Livable Transit Corridors through Transportation Land Use Integration: An Interactive Guide, Calculator and Exercise. International Conference on Transport and Health, Barcelona. June 2017.
22. **Appleyard, B.** A Literature Review and Research Agenda for Understanding and Addressing Pedestrian and Bicycle Safety. International Conference on Transport and Health, Barcelona. June 2017.
23. **Appleyard, B.,** Ferrell, C. Transit Corridor Livability: Exploring the Transportation/Land Use/Livability Connection. Association of Collegiate Schools of Planning Conference. Portland, OR.

October 2016.

24. **Appleyard, B.**, Ferrell, C. Transit Corridor Livability: Exploring the Transportation/Land Use/Livability Connection. *Transportation Research Record*. Washington DC. January 2016.
25. **Appleyard, B.**, Ferrell, C. A Calculator for Transit Corridor Livability: Exploring the Transportation/Land Use/Livability Connection. ACSP. Houston, TX. October 2015.
26. **Appleyard, B.**, Ferrell, C., Mathur, S. 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". Accepted for presentation inclusion in Transportation Research Board Annual Meeting Compendium. 25 pages.
27. **Appleyard, B.**, Ferrell, C. 2015. "The Meaning of Mean Streets: Crime, Casualty and Mode Choice: The Association between Crime, Casualties, Gender and Sustainable & Active Travel Choices".
  1. National Conference of the Transportation Research Board. Washington DC. Jan. 2015.
  2. International Conference Transport and Health. London, UK. July, 2015.
  3. Transportation Research Board Conference on Transport and Public Health Washington DC. April, 2015
28. **Appleyard, B.** 2015. "What Makes a Livable City?" International Conference on Making Cities Livable. Bristol, UK. June 2015.
29. **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.
30. **Appleyard, B.** 2015. "Street Level Livability Ethics". International Conference Transport and Health. London, UK. July, 2015.
31. **Appleyard, B.** 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". Accepted for presentation inclusion in Transportation Research Board Annual Meeting Compendium. 25 pages.
32. 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 inclusion in Transportation Research Board Annual Meeting Compendium. 16 pages.
33. **Appleyard, B.** Ferrell, Carroll, Taecker. "Methods, Measures & Strategies Toward Creating a Taxonomy of Transit Corridors for Livability Optimization". Accepted for presentation inclusion in Transportation Research Board Annual Meeting Compendium. January, 2014.
34. **Appleyard, B.** 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. January, 2014.
35. **Appleyard, B.** Ferrell, Carroll, Taecker. "Toward Livability Ethics: A Framework to Guide Planning, Design, and Engineering Decisions". Accepted for presentation inclusion in

- Transportation Research Board Annual Meeting Compendium. January, 2014.
36. Ryan, S., **Appleyard, B.** Schroeder, C., and Andrew, P. “Estimating Daily Bicycle Volumes Using Manual Short Duration and Automated Continuous Counts.” Accepted for presentation inclusion in Transportation Research Board Annual Meeting Compendium. January, 2014.
  37. **Appleyard, B.** August 8, “Big Social Media, Civic Operations, and Urban Planning Research”. NSF-CDI Specialist Meeting: Knowledge Discovery in Cyberspace and Big Data. San Diego, CA. May 2013.
  38. **Appleyard, B.** “Knowledge is Power: Measuring, Understanding and Realizing Sustainability, Livability and Social Equity in Scenario Planning”. Environmental Systems Institute Research (ESRI) Conference, San Diego, CA. July 13, 2013
  39. **Appleyard, B.** 2012. “Knowledge is Power: Measuring, Understanding and Realizing Social Equity in Scenario Planning”. Open Source Planning Group Conference, Portland, OR.
  40. **Appleyard, B.** 2012. “Deconstructing The D-Variables: New Methods To Measure The Built Environment For Travel Behavior Research”. Accepted for presentation inclusion in Transportation Research Board Annual Meeting Compendium. 25 pages.
  41. **Appleyard, B.** 2011. “Street Conflict, Power and Promise: Livable Streets Humanizing the Auto-Mobility Paradigm.” World Transport Policy and Practice. Volume 17 (June).
  42. **Appleyard, B.** 2012. “Relationships Between Crime, the Built Environment and Sustainable and Healthy Travel Choices to Access Transit Stations”. Transportation Research Board Annual Meeting Compendium.
  43. **Appleyard, B.** October 17, 2012. Rail~Volution, Los Angeles, CA.  
“Street Conflict, Power and Promise: Realizing Livable and Complete Streets”.
  44. **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”.
  45. **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?”
  46. **Appleyard, B.** September 7, 2011. Conference on Performance Measures for Transportation and Livable Communities, Austin, TX  
“Principles for Measuring and Achieving Livability to Guide Planning and Design Decisions”.
  47. **Appleyard, B.** April 10, 2011: National Planning Conference, American Planning Association, Boston, MA. “Overcoming Barriers to Complete and Livable Streets”.
  48. **Appleyard, Ferrell, Carroll.** 2009. “Station Access for Highway Transit Systems: International Review and Normative Framework for Multimodal Public Transportation Station Access within and Near Highways and Expressways”. Paper presented at the 2009 Transportation Research Board

Conference, Washington DC, and included in 2009 TRB Compendium of Papers.

49. **Appleyard, B.** 2009. “Station Access in the Era of Climate Change and Mortgage Meltdowns”. Accepted for presentation and Compendium of the ACSP Conference, Crystal City, VA.
50. **Appleyard, B.** 2009. “Street Conflict, Power and Promise: Livable Streets Broadening the Auto-Mobility Paradigm”. Accepted for presentation and inclusion in Compendium of Papers for the ACSP Conference, Crystal City, VA.

### **Unpublished, Refereed Papers before Professional Conferences**

1. **Appleyard, B.** August 9, 2016. Speaker for Caltrans’ PAL Workshop, “The Livability Calculator for Measuring, Understanding and Realizing Sustainability, Livability, and Equity”.
2. **Appleyard, B.** October 18, 2016. “Calculating the Campus Carbon Footprint, Climate Action Planning, and Smart Parking.” 2016 CSU Facilities Management Conference: Building a Sustainable Future. Indian Wells, CA
3. **Appleyard, B.** November 18, 2016. “The Future of Smart, Connected Campuses: Calculating the Campus Carbon Footprint for Climate Action Planning.” 2016 CSU Facilities Management Conference: Building a Sustainable Future. Indian Wells, CA
4. **Appleyard, B.** November 18, 2016. “The Future of Smart, Connected Cities.”
5. **Appleyard, B.** May 18, 2016. “The Future of Smart, Connected Cities.”
6. **Appleyard, B.** May 10, 2015, Speaker for SD Sierra Club “SG Catalysts.”
7. **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.”
8. **Appleyard, B.** August 17, 2011 Presentation to all Planning Directors in Salt Lake County. “Making Regional Planning Work to Realize Regional Visions: The HUD Sustainable Communities Initiative”.
9. **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.”
10. **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”.
11. **Appleyard, B.** October 17, 2012. Windsor Town Council, “Creating Complete and Livable Streets.”

### **Scholarly Awards**

1. 2019: Michael Breheny Prize (UK) for the Best 2018 Paper in *Environment and Planning B: Urban Analytics and City Science*, alongside SDSU HDMA colleagues Gibbons & Nara for “Exploring the imprint of social media networks on neighborhood community through the lens of gentrification”. This is a top City Planning methods journal with a 2.046 Impact Factor.
2. 2015: Grants and Research Enterprise Writing (GREW) Fellowship, Research Foundation, San Diego State University.
3. 2009 – 2010: Doctoral Dissertation Grant, University of California Transportation Center University of California, Berkeley.
4. 2009: Michael B. Teitz Fellowship for Outstanding Regional Planning Research. University of California, Berkeley.
5. 2010: Dwight D. Eisenhower Transportation Fellowship.
6. 2007 – 2010: University of California Transportation Center Fellowship
7. 2007 – 2010: Volvo Foundation Fellowship
8. 1997: Professional Promise Award for Outstanding Masters of City Planning Student. University of California, Berkeley. (4.0 GPA)

### **Funded Research Grants**

1. **Appleyard, B.** (Co-PI) Tier 1 University Transportation Center (Safety), Leader: University of New Mexico. SDSU Director: Dr. Bruce Appleyard 01/2023 - 01/2028. \$10,00,000. Funded.
2. **Appleyard, B.** (PI) California Air Resources Board (CARB): Quantifying Potential Indirect, Urban Form Impacts of Transit Investments. \$231,000. 2021-2023. Funded.
3. **Appleyard, B.** (PI) Mineta Transportation Institute (MTI), the California Transportation Commission (CTC), and funded through the California State University Transportation Center (CSUTC). Helping the California State Assembly and the California Transportation Commission (CTC) evaluate their Active Transportation Program (ATP) and improve their decision making processes. \$75,000. 2022-2023.
4. **Appleyard, B.** (PI) Mineta Transportation Institute (MTI), the California Transportation Commission (CTC), and funded through the California State University Transportation Center (CSUTC). Helping the CTC incorporate public health measures into their decision making processes. \$75,000. 2021-2022.
5. **Appleyard, B.** (PI) Caltrans (California Department of Transportation). Developing planning support tools and policy action frameworks to achieve sustainability, livability, and equity outcomes. \$87,000. 2018 - Present.



6. **Appleyard, B.** (PI) Mineta Transportation Institute (MTI) US Department of Transportation University Transportation Grant to further develop the Smart Growth Equity Calculator. \$25,000. 2018 - Present.
7. Ryan, S., **Appleyard, B.** A Micro-Scale Analysis of Cycling Demand, Safety and Network Quality. Funded through the California State University Transportation Center . \$75,000. 2018 - Present.
8. **Appleyard, B.** SDSU PI. With Maaza Mekuria and Hilary Nixon. “Multimodal Transit Access Analysis” by the Mineta Transportation Institute. (2015-2017). \$70,000 Awarded. This led to the report: “Improving Livability Using Green and Active Modes: A Traffic Stress Level Analysis of Transit, Bicycle, and Pedestrian Access and Mobility.
9. **Appleyard, B.** SDSU (PI). Transit Cooperative Research Program Funded Research on Livable Transit Corridors (\$350,000) (2013-2017). Awarded.
10. **Appleyard, B.** Transit Cooperative Research Program funded research on the land use impacts of transit investments (\$400,000) (2013-2017). Awarded.
11. **Appleyard, B.** SDSU (PI). Presidential Leadership Fellowship for the creation of the Aztec Transportation Group. \$7,000. 2016-2017. Awarded.
12. **Appleyard, B.** \$14,000,000 – National University Transportation Center (Safety), Leader: Virginia Polytechnic Institute and State University, US Department of Transportation, SDSU. 01/2017 - 01/2022.
13. **Appleyard, B.** SDSU PI. UC Berkeley Statewide Evaluation of California’s Community Complete Streets Safety Assessment Program. \$10,000. 2016-2017. Awarded.
14. **Appleyard, B.** SDSU (PI). Research funding for HDMA Big Data and Action Institute for Sustainability, Livability, and Equity (AISLE). \$5,000. 2016-2017. Awarded.
15. **Appleyard, B.** SDSU (PI). 3-year Strategic Growth Council Grant (my overall grant award is over \$125,000 out of \$900,000), 2014-16. Awarded.
16. **Appleyard, B.** SDSU PI. To lead the development of the transportation element of SDSU’s Climate Action Plan. \$15,000. 2015-2016. Awarded.
17. **Appleyard, B.** SDSU PI. Ferrell, C. Helping Caltrans and all the MPOs in California to work with the new federal transportation funding legislation related to elderly and disabled programs” \$30,000 by the Mineta Transportation Institute. (2013-2014). Awarded.
18. **Appleyard, B.** SDSU (PI). Caltrans funded Smart Mobility Implementation project (\$250,000). (2012-2014). Awarded.
19. **Appleyard, B.** SDSU PI. UGP grant: *The Urban Environment and the Promotion of Public Health and Sustainability: “The Transportation, Land Use and Urban Design Connection.”* (2014-2015). Awarded. About \$10,000.

20. **Appleyard, B.** SDSU (PI). HUD/EPA Integrating Social Equity and Local/Regional Scenario Planning (\$400,000 total). (2012-2014). Awarded.

### **Pending/Unfunded Grant Efforts**

1. NSF: Tools for re-imagining and redesigning sustainable neighborhood transportation infrastructure. Submitted in partnership with UC Irvine. \$150,000. Pending.
2. University Transportation Center Grant. “Quantifying impacts of transit, pedestrian, and bicycle investments on land use, VMT, and GHG emissions”. Dr. Bruce Appleyard. 01/2023 - 01/2028. \$75,000. Pending.
3. NSF:STC: Anticipatory Models for Urban Mobility. Submitted in partnership with UCSD Robotics Institute and UC Irvine, Institute of Transportation Engineers. \$5,000,000. Unfunded.
4. NSF Engineering Research Center (ERC) Grant for a center researching the future of urban mobility. In partnership with UCSD Robotics and UC Irvine, Institute of Transportation Engineers. \$5,000,000. Unfunded.
5. "Reducing Exposure to Carcinogenic Traffic-Related Pollutants During Outdoor Physical Activity - A Personal Sensor-Based Approach", in response to the 2019 Cancer Research Group Request for Proposals. Spring 2019. Unfunded.
6. “The Role of Race, Place, & Inequities in Longevity and Quality of Life” I presented at the Smart Growth/Livability Calculator to the Cancer Prevention Institute of California to discuss opportunities for collaboration on research and funding. They invited us to team with them on a grant titled, We submitted this in October 2017. Unfunded.
7. Helped submit three grant applications to our federally funded University Transportation Center (SAFE-D), teaming with faculty from Virginia Tech, and Texas A&M. Unfunded.
8. Summer 2017. Submitted two grants to the Mineta Transportation Institute for a possible total of \$150,000. Unfunded.
9. \$1,250,000 Regional University Transportation Center (Economic), Leader: University of California, Berkeley, US Department of Transportation, SDSU Director: **Dr. Bruce Appleyard**, 01/2017 - 01/2022. Unfunded.
10. \$7,500,000 - Tier 1 University Transportation Center (Safety), Leader: San Diego State University, SDSU Director: Dr. Sherry Ryan (Assistant Director: **Dr. Bruce Appleyard**), 01/2017 - 01/2022. Unfunded.
11. \$1,000,000 – US Department of Justice, Byrne Criminal Justice Grant. SDSU Director: **Dr. Bruce Appleyard**. 2016-2017. Unfunded.
12. \$7,500,000 - Tier 1 University Transportation Center (Congestion), Leader: San Diego State University, US Department of Transportation, SDSU director: Dr. Janusz Supernak, 01/2017 - 01/2022. Unfunded.

13. \$1,250,000 – National University Transportation Center (Economic), Leader: University of Arizona, US Department of Transportation, SDSU director: Dr. Sahar Ghanipoor Machiani, 01/2017 - 01/2022. Unfunded.
14. \$12,000,000 – National Science Foundation Urban Sustainability Grant. Unsuccessful.
15. \$168,000 – National Science Foundation CEES Grant: Cultural Response to Risks in the Coastal Zone Due to Multi-scale Environmental Changes. Unsuccessful.
16. \$1,000,000 – US Department of Justice, Byrne Criminal Justice Grant. SDSU Director: **Dr. Bruce Appleyard**. 2015. Unsuccessful.

### **Funded Training Grants**

Grants and Research Enterprise Writing fellowship – to provide training and workshops in support of my growing research portfolio. \$5,000 (2015).

---

## TEACHING EFFECTIVENESS

---

### 1. Chaired the following Master's thesis committee

1. 2023-2024 - Wesley Cooksy (Public Affairs, Chair Dr. Bruce Appleyard) Wesley's thesis involves improving the decision making process of the California Air Resources Board to determine which transit investments will lead to to greatest production of affordable housing and the greatest reduction of vehicle miles traveled (VMT) and greenhouse gases (GHG).
2. 2022-2023 – David Zajac (Public Affairs, Chair Dr. Bruce Appleyard) David's thesis involves a critical analysis of planning for housing and services on military facilities. Final title to be determined.
3. 2016-2017 - Alex Frost (Public Affairs, Chair Dr. Bruce Appleyard) - "Quantifying The Sustainability Performance Of Urban Form In California"-- mentored into the peer-reviewed publication, "Quantifying the Sustainability, Livability and Equity Performance of Urban and Suburban Places in California" published by the National Academies of Sciences.
4. 2020-2021 – Jonathan Stanton (Public Affairs, Chair Dr. Bruce Appleyard) – “ Measuring Vehicle Miles Traveled and Trip Length by Place Type”. Also mentored Jonathan to submit as a peer-reviewed publication to the Transportation Research Board of the National Academies of Sciences.

### 2. Member of the following Master's thesis committees

1. (2020) Liliana Jaime: Spatial Distribution And Patterns of Fine Particulate Matter (Pm2.5) Close to the Ports of Entry in the San Diego– Tijuana Area.
2. (2019) Asmim Faria: “Summer and Winter time Chemical Composition and Source Apportionment of fine particulate matter (PM2.5) at four sites in San Ysidro, California.
3. (2018- 2019) Impresso, K. (Public Health, Chair Dr. Chowdhury) Within-day Variation In Particulate Matter (Pm2.5) Concentrations In The Cities Of El Cajon And Escondido.
4. (2018- 2019) Watkins, R. (Public Health, Chair Dr. Quintana) Particulate Matter (Pm) And Ultrafine Particles (Ufp) Measured On Pedestrian Walkways During And After The Nearby Use Of Leaf Blowers.
5. (2018- 2019) Mohammad Ali Zarabi (Political Science, Chair Dr. Carruthers) The Politics Of Renewable Energy: The Case Of Local-level Financial Incentives.
6. (2016-2017) Jeremy McKinstry (Public Health, Chair Dr. Gersberg) Bikeshare and Transit in National City, CA: Implications for Climate Change, the Economy, and Public Policy
7. (2016-2017) Sam St Lifer. (Geography, Chair: Dr. Jankowski): Evaluating the Potential for Mixed-Use Urban Land Development using Multi-Criteria Decision Analysis: A Case Study in the City of San Diego.

### 3. Curriculum Development

- CP 640: History and Theory of City Planning–SDSU (Fa 2022)
- PA 200: The Urban Scene– SDSU (Fa 2019, 2021) Arts Alive Collaboration with Thea 649
- PA 497: Investigate and Report (Urban Design Research Seminar)
  - SDSU (Sp 2015; Fa 2016; Sp 2018; Fa 2018)
- CP 670: History of City Planning – SDSU (Fall 2013; 2014; 2015; 2016; 2017)
- CP 640: Theory of City Planning – SDSU (Spring 2017; 2018)
- CP700: Urban Design and Land Development Studio (Spring 2014; 2015; 2016; 2019)
- CP 695: Computer Applications for Planners & Urban Designers (Fall 2014; 2015; 2016; 2017)
- SEM: Health and Wellness Seminar (Fall 2014; 2015; 2016; 2017)
- PA 350: Contemporary Metropolitan Issues – SDSU (Fall 2013; 2014)
- 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)

#### 4. Teaching Innovations

1. Developed teaching modules and assignments around my scholarly work, including software Planning Support Tools, as follows:
  - *Smart Growth Equity Calculator* (<https://smartgrowthcalculator.netlify.com/>)
  - *Livability Calculator* (<http://www.trb.org/Main/Blurbs/174953.aspx>)
  - *Handbook for Building Livable Transit Corridors* (<http://www.trb.org/Main/Blurbs/174953.aspx>)
2. Created new Computer Graphics Course (CP 695) and modules for City Planners and Urban Designers for the following:
  - SketchUp
  - Adobe Illustrator Creative Suite (Illustrator, Photoshop, InDesign)
  - Geo-Design tools, including:
    1. Geodesignhub.com
    2. ESRI’s Geo-Planner, Envision Tomorrow +, and Urban Footprint
    3. Geoforage
3. Created a new course on Urban Design Research Methods.
4. Created new learning activities to encourage student engagement and real-world understanding:

- Climate action role-playing scenario negotiation game
  - Transportation and land use connection debate (where students use their understanding of research and policy to make their arguments).
5. Innovative use of social media in class assignments: creating “Docuflection” assignments through the use of Instagram where students post images and narratives related to the assignment.
  6. Extensive use of Google Docs, Sheets, & Folders to give students easier access (than Blackboard) to course material.
  7. Using iClicker polling technology as a form of class engagement.
  8. Online reading depository teaching students to use free citation software Zotero (PA 497: Spring 2018, Fall 2018).
  9. The use of Meta virtual reality (VR) goggles alongside 3-D SketchUp in our urban design studio.
  10. In-The-Field “High Impact Practice Experiences” and Community Service

SDSU SAGE Project - Mentoring students through “high impact practice experiences” in:

- 2014 & 2015: National City: CP 700 – Advanced Urban Design Studio.
- 2016: Imperial Beach: CP 695 – Introduction to Urban Design Studio.
- 2017: Lemon Grove; CP 700 - Advanced Urban Design Studio.
- 2018: SDSU Mission Valley Site
- 2019: SDSU College Area

ULI Healthy Places Intercollegiate Competition. Through my Spring 2016 and 2017 Urban Design Studio (CP 700) I mentored our students through this “high impact practice experience”. SDSU participated in teams that won both years.

## 5. Further Curriculum Development and Teaching Innovations

- |             |  |
|-------------|--|
| Spring 2022 | Participated in SDSU ITS Course Design Institute to improve online teaching.   |
| Summer 2019 | Attended Portland State University Seminar for developing university bicycle and pedestrian planning & design courses at |
| Spring 2019 | Arts Alive collaborations with DJ Hopkins for PA 200 and Thea 649  |
| Spring 2018 | PA 497 – Developed a new Urban Design Research Seminar Curriculum..  |
| Spring 2016 | Developed International Course: Bicycling the Livable Streets & Sustainable Cities of the Netherlands                    |
| Spring 2016 | Developed Bicycle Planning and Design Webinar for UC Berkeley’s Institute of Transportation Studies offered Fall 2016.   |

Spring 2015 PA 497 – Research and Reporting Course for SDSU Bicycle Research Project

Fall 2014 New Computer Graphics Course (CP 695) and modules for City Planners and Urban Designers—Developed core graduate course for SDSU City Planning Program: Developing Pedestrian Planning and Design Webinar for UC Berkeley’s Institute of Transportation Studies

## 6. Teacher-Scholar Efforts

Mentored and Funded SDSU Students through collaborative research & authorship.

(Underline = Student Author; with \* = Funded Student Author from my grants & contracts)

### Peer reviewed articles (mentored student authorship)

1. **Appleyard, B.**, Riggs, W., Stanton, J.\* (2023). “Designing transportation and land use coordination: frameworks for measuring, understanding, and realizing sustainability, livability, and equity”. *Local Environment: The International Journal of Justice and Sustainability*.  
Lead Author Role: Conceived of the overall design; authored the manuscript and was responsible for its shape and form throughout the process.  
Impact Factor: 3.590
2. **Appleyard, B.**, Frost, A.\*, Allen, C.\* 2019. “Are All Transit Station Areas Equal and Equitable? Calculating the Sustainability, Livability, Health, & Equity Performance of Smart Growth and TOD”. *Journal of Transport and Health*. Elsevier. Impact Factor: 2.050
3. Frost, A.\*, **Appleyard, B.**, Gibbons, J., Ryan, S. 2018. “Quantifying the Sustainability, Livability and Equity Performance of Urban and Suburban Places in California.” *Transportation Research Record: Journal of the National Academies of Sciences’ Transportation Research Board*. Impact Factor of 1.11, and an acceptance rate of 20 %.
4. **Appleyard, B.**, Frost, A.\*, Cordova, E.\*, McKinstry, J.\*. 2018. New Pathways Toward Zero-Carbon Campus Commuting: Innovative Approaches in Measuring, Understanding, and Reducing Greenhouse Gas Emissions. *Transportation Research Record: Journal of the National Academies of Sciences’ Transportation Research Board*. CiteScore Impact Factor of 1.11, and an acceptance rate of 20 %.
5. Cherry, Riggs, **Appleyard**, Dhakal, Frost\*, Jeffers. 2018. New and Unique Aspects of University Campus Transportation Data to Improve Planning Methods. *Transportation Research Record: Journal of the National Academies of Sciences’ Transportation Research Board*. CiteScore Impact Factor of 1.11, and an acceptance rate of 20 %.

### Books and peer-reviewed research reports (mentored student authorship)

1. **Appleyard, B.** Stasio, J.\*, Rumfola, M.\*, Flores, A.\*, Almanza, M.\*, Gidvani, R.\* 2022. Understanding the Everyday Lives of the Houseless Through Cognitive Maps: A Human Centered Analysis of Their Home Territories and Needs. *Socio-Economic Vulnerabilities Initiative (SEVI)*.

2. **Appleyard, B., Garrett, T.\*** (Under Review) Incorporating Public Health into Transportation Decision Making: A California Transportation Commission Case Study. Mineta Transportation Institute. Funded through a grant from the US DOT University Transportation Center Program
3. **Appleyard, B., Appleyard, D.** *Livable Streets 2.0*. Elsevier (Submitted & in press) Authorship acknowledgement for the following SDSU students: Emily Posedal\*, Courtney Armusewicz, Timothy Briggs, Cornelia Draxler, Alyssa Barman, Anna Skaanbeck, Chris Galen\*, & Maitry Borad\*, Jonathan Stanton, Damara Busara.
4. **Appleyard, B., Stanton, J.\***, **Allen, C.\***, 2019. A Framework and Smart Growth Calculator For Measuring, Understanding, And Realizing Transportation/Land-use Coordination For Sustainability, Livability, And Equity. Mineta Transportation Institute (Funded through a grant from the US DOT University Transportation Center Program)

Peer-reviewed book chapter (mentored student authorship)

1. **Appleyard, Frost.** 2019. Livability as a Framework for Understanding and Guiding Transportation and Land Use Integration. *Transportation, Land Use and Environmental Planning*, 978-0-12-815167-9, Elsevier. Editor: Elizabeth Deakin.
2. **Appleyard, Cocco, Jankowski.** 2019. "A new satellite campus for San Diego State University: Mission Valley stadium site." In *The International Geodesign Collaboration: Changing Geography by Design*. Edited by Tom Fisher, Brian Orland, Carl Steinitz. Esri Press 2020 200pp. Featuring work by the following FSMP students: Rebeca Moreno, Taylor Mosley, Rica Perez, Tai Disla, Rebeca Pozos, Isiah Titus, Nguyen Tran, Farzan Khoobchehr.

Software (mentored student authorship)

1. **Appleyard, B., Allen, C.\***, **Cordova, E.\***, **Tinglof, M.\***, **Tinglof, J.\***, **Martin, G.\***. 2018-2019. Smart Growth Equity Calculator: A Housing, Transportation, and Climate Action Coordination Tool. <https://smartgrowthcalculator.netlify.com/>
2. **Appleyard, B., Ferrell, C., Allen, C.\***, **Taecker, M., Armusewicz, C.\***, **Cordova, E.\***, **Schroeder, C.\***, **Beheshti, A.\*** 2016. *Livability Calculator for the TCRP H-45 Handbook, Building Livable Transit Corridors: Methods, Metrics and Strategies*. Washington, DC: Transit Cooperative Research Program (TCRP) of the Transportation Research Board (TRB) of the National Academies of Sciences.
3. **Appleyard, B., Schroeder, C.\*** 2014. *Sustainable Transportation Calculator*. Developed for the Smart Mobility Framework Implementation Project and Caltrans.

Manuscripts Under Review

1. **Appleyard, B., Garrett, T.\*** (Under Review) Incorporating Public Health into Transportation Decision Making: A California Transportation Commission Case Study. *Transportation Research Record: Journal of the Transportation Research Board*.
2. **Appleyard, B., Stanton, J.\***, **Gibbons, J., Ryan, S.** (Under Review). "Sustainably Linking Travel and Community: Measuring Vehicle Miles Traveled, Greenhouse Gas Emissions, and



- Trip Length by Neighborhood Place Type”. *Transportation Research Record: Journal of the Transportation Research Board*.
3. **Appleyard, B.** (Under Review). “Crime Casualty and Mode Choice”. *Transportation Research Record: Journal of the Transportation Research Board*.
  4. **Appleyard, B.,** Abdel Samad, M., Stasio, J.\*, Rumfola, M.\* (Under Review) Understanding the Everyday Lives of the Houseless Through Cognitive/Image Maps: A Human-Centered Analysis of Their Home Territories and Needs. *Journal of Planning Education and Research*.

### **Faculty Student Mentorship Program (FSMP) Research Team Members**

**2022-2023:** Julia Stasio, Michael Rumfola, Athziri Flores, Athena Lazos, Arman Ogandzhanyan, Evan Dennis, Jaqueline Castellanos, David Sinclair, Orlane Hassan, Kiersten Lee Aviles, Joseph Sims, Aidan Skillingstad, Jolie McIntyre, Arya Dorroudi, Mia Almanza, Emily Meints.

**2021-2022:** Mason Lambert, Julia Stasio, Rami Sinnawi, Mia Almanza, Michael Rumfola, Athziri Flores, Athena Lazos, Rohan Gidvani, Arman Ogandzhanyan, Evan Dennis, Ricky Ramirez, Joseph Benitez Barragan, Ben Ribera, Ricky Ramirez, Joseph Benitez Barragan, Luis Muniz-Garcia, Lucas Russell

**2020-2021:** Julia Stasio, Rohan Gidvani, Mia Almanza, Michael Rumfola, Athziri Flores, Joseph Ortiz, Dillon Brumfield, Manuel Martinez, Atalie Gomez, Jody Dang, John Clamon, Alexandra Lim

**2019-2020: Faculty Student Mentorship Program (FSMP)** Jenna Garcia, Daniel Mendoza, Khanh Truong, Mohamed, Noor Haleem, Evelyn Le, Megan Do, Melissa Hamendi, Chrestina Mansoor, Rebeca Pozos, Isiah Titus, Tinglof, M.\*, Tinglof, J.\*, Martin, G\*

**2018-2019: Faculty Student Mentorship Program (FSMP):** Rebeca Moreno, Taylor Mosley, Rica Perez, Tai Disla, Rebeca Pozos, Isiah Titus, Nguyen Tran, Farzan Khoobchehr, Christopher Velasco, Madeline Shute  
Mentored students through their research and toward presenting at the 2019 Student Research Symposium on their collaborative Geodesign project titled, “A new satellite campus for San Diego State University: Mission Valley stadium site”. This work will be featured in the upcoming book *Changing Geography by Design (2020) ESRI Press*.

### **Special Studies (33 Student Mentorships)**

#### **Spring 2023**

Ahangarfabrik, Nell; Hassan, Orlane D.; Meints, Emily; Ogandzhanyan, Arman; Skillingstad, Aidan

#### **Fall 2022**

Athena Lazos, Arman Ogandzhanyan, Jaqueline Castellanos, David Sinclair, Kiersten Lee Aviles, Julia Stasio, Aidan Skillingstad, Jolie McIntyre

**Spring 2022**

Evan Dennis

**Spring 2021**

Alexendra Lim, Julia Stasio

**Fall 2019**

Lesly Gallegos

**Spring 2019**

Rebeca Pozos, Daniell Shirazi

**Fall 2018**

Isiah Titus, Christopher Velasco

**Fall 2017**

Eric Henson

**Fall 2016**

Katja Dillmann, Diane Foote, Alexander Frost, Eduardo Cordova

**Spring 2016**

Courtney Armusewicz, Alexander Frost, Lisa Maier, Nirvana Ward, Krystal Ayala

**Spring 2015**

Adeyemi Akilo, Helen Gao

---

## SERVICE

---

### Service for the University

1. Chair of SPA Policy Committee and leading the development of our first-ever Policy File.
2. Director: Active Transportation Research (2013 - present)
3. Associate Director, Human Dynamics in the Mobile Age (2013 - present). Assisted in the authorship of this successful Area of Excellence proposal to create the HDMA Center. (\$1,000,000).
4. Research Faculty of the Geospatial Approaches to Population Health Research Working Group (GrAPHeRs)
5. Member of the SDSU Faculty Senate Sustainability Committee (SSC) (2014 - present)
6. Faculty Student Mentorship Program Faculty (2017 - present)
7. Faculty in Residence (2014-2018)
8. Lead on the proposal to create an Area of Excellence proposal to create the Action Initiative for Sustainability, Livability, & Equity (AISLE) – an initiative that included over 50 Faculty from across the SDSU (2015) – Unfunded.
9. Lead on the Presidential Leadership Fund proposal to create the Aztec Transportation Group – \$12,000 (2016) – this helped create the collaboration between the School of Public Affairs and the College of Engineering associated with the successful creation of the first-ever University Transportation Center at SDSU – SAFE-D led by Sahar Machiani in Engineering.
10. Black Business Society: Faculty Advisor (2015-Present)

### *Other Service (“Service-Scholar Model)*

1. SDSU Travel Survey and the SDSU Transportation Climate Action Plan:  
2022 - with Rohan Gidvani\*  
2019 - with students Michael Tinglof\*, Luis Bretts, Maitry Borad\*  
2018 - with students Maitry Borad\*, Eduardo Cordova\*  
2017 - with students Jeremy McKinstry\*, Alex Frost\*,  
2016 - with students Jeremy McKinstry\*, Sam St. Lifer\*, Alex Frost\*, Eduardo Cordova\*

(\* Student funded and authorship)

Working through the Senate Sustainability Committee, in 2015 I initiated the creation of our first-ever Travel Survey for our inaugural SDSU Climate Action Plan, raising funds, developing survey, and methods for deployment, calculating greenhouse gas emissions, and the outline and authorship of our SDSU CAP.

### Service for the School of Public Affairs

1. Policy Committee (Chair)- Developing our first-ever Policy File.
2. Inaugural City Planning Accreditation Committee (2018 – present)

3. Faculty Search Committee (2017, 2018, 2019, 2021, 2022)
4. University Graduate Council (2019 - 2020)
5. International Studies (2019 - 2020)

### **Service for the CSU Chancellor’s Office and the California State University System**

1. *Deployment of SDSU Travel Survey & Climate Action Planning Methodology across the CSU System*  
Working with the CSU Sustainability Working Group – a group of Sustainability Officers from across the CSU system on the deployment of our SDSU Travel Survey instrument accompanied by a “How To” Guide outlining methods for surveying and calculating the campus carbon footprint from commuting, and then take this information to develop the assessments and policies for their own Climate Action Plans. (2018-2019)
2. *CSU Systemwide Parking and Housing Cost Analysis for CSU Chancellor’s Office*  
Worked with CSU Chancellor’s Office to conduct an analysis of the full and true costs of parking and housing across all the CSU Campuses. This was to help the CSU Chancellor Office’s internal audit, and led to the production of the 2019 White Paper: “From Commuter Colleges to Residential Universities” with Research Assistants. Jonathan Stanton and Annapurna Singh. (2018-2019)

### **Service for the Profession**

1. Guest Editor for a Special Issue on TOD@25 for the Journal of Planning Education and Research. (2017 - 2019). This is one of the top journals in academic planning.
2. Member of the following committees of the National Academy of Science’ Transportation Research Board (2014-Present), where I advise on federal research activities and funding.
  1. Standing Committee on Transportation and Land Development
  2. Standing Committee on Light Rail Transit
  3. Standing Committee on Passenger Intermodal Facilities
  4. Standing Committee on Pedestrians
  5. Standing Committee on Public Transportation Planning and Development
  6. Standing Committee on Transportation and Sustainability
  7. Standing Committee on Bicycle Transportation
3. Reviewer for *Transportation Research Record: Journal of the National Academies of Sciences’ Transportation Research Board (TRR)*. 2007- Present
4. Periodic reviewer:
  1. Periodic Reviewer for *Journal of Transport and Health* 2016 - Present
  2. Periodic Reviewer for the *Journal of Transportation & Land Use* 2015 - Present
  3. Periodic Reviewer for *Journal of Planning Education and Research*. 2016 - Present
  3. Periodic Reviewer for *Journal of the American Planning Association* 2016 – Present
5. Senior Workshop Leader and Evaluator for UC Berkeley ITS Pedestrian and Bicycle Safety Assessment Community program in the following communities:
  - a. 2016: La Mesa, Long Beach, Stanton, Berkeley
  - b. 2015: Coronado

- c. 2014: Temecula, Escondido
  - d. 2013: Inglewood, Santa Ana
6. The Kinder Institute at Rice University's Sunbelt Cities Collaboration. 2017.

**Participation in Professional Associations**

- 1. American Planning Association
- 2. National Academies of Sciences' Transportation Research Board
- 3. Urban Affairs Association
- 4. American Collegiate Schools of Planning (ACSP)

**Service for the Community**

- 1. Member of the ULI Transit Oriented Development (TOD) Strategy Council (2018-Present)
- 2. Executive Board Member of San Diego's Citizens Coordinate for Century 3 (2013-2015).
- 3. Advisory Board Member of Circulate SD (formerly Walk San Diego and Move SD) (2013-2015).