**RESEARCH SUMMARY**

My research explores community responses to climate change, with a focus on transportation and land-use planning to reduce greenhouse-gas emissions and build resilience across social, environmental, and technological domains. I investigate policy and design interventions using a mix of quantitative and qualitative methods, including content analysis, interviews, case studies, and spatial econometric models.

# EDUCATION

**Ph.D. in Metropolitan Planning, Policy & Design**, Department of City & Metropolitan Planning, University of Utah

**Master of Urban & Environmental Planning**, School of Geographical Sciences and Urban Planning, Arizona State University

B.A., Department of English, Arizona State University

# Academic APPOINTMENTS

Postdoctoral Research Scholar, Julie Ann Wrigley Global Institute of Sustainability, Arizona State University. Investigate social, environmental, and technological impacts of **community co-produced scenarios for future development** of the Phoenix metropolitan region. (2020 – present)

Visiting Assistant Professor, Department of City & Metropolitan Planning, University of Utah. Analyzed community responses to **climate change, sustainable transportation and urban development,** and **disaster recovery and resilience**. Managed research projects and students for the Metropolitan Research Center. Prepared **research proposals worth $1.5 million**. (2018 – 2020)

Fellow, National Council on Science & the Environment-Project Drawdown. Developed educational strategies and curriculum templates for **teaching climate solutions** to university students across disciplines. (2018 – 2020)

Fulbright scholar, University of Pune, India. Studied strategies to mitigate the **urban heat island** in Pune, Maharashtra. **Simulations of urban microclimates using ENVI-met software** showed that street trees, white roofs on informal housing, and building siting to take advantage of wind patterns could cool the city by 3 degrees Celsius. (2011 – 2012)

# PUBLICATIONS

## Peer-Reviewed Journal Articles

**Proffitt, D. G.**, Bartholomew, K., Ewing, R., & Miller, H. J. (2019). Accessibility planning in American metropolitan areas: Are we there yet? *Urban Studies*, *56*(1), 167–192.

Sabouri, S., Dillon, A., **Proffitt, D. G.**, Townsend, M., & Ewing, R. (2019). State-of-the-Practice in Connecting and Coordinating Transportation and Land Use Planning in the U.S.A. *Transportation Research Record*.

Ewing, R., Tian, G., Park, K., Stinger, P., Sabouri, S., Stinger, P., & **Proffitt, D. G.** (2019). Comparative Case Studies: Trip and Parking Generation at Orenco Station TOD, Portland Region and Station Park TAD, Salt Lake City Region. *Cities*, *87*, 48–59.

Ewing, R., Hamidi, S., Tian, G., **Proffitt, D. G.**, Tonin, S., & Fregolent, L. (2017). Testing Newman and Kenworthy’s Theory of Density and Automobile Dependence. *Journal of Planning Education and Research*, *38*(2), 1–16.

Ewing, R., & **Proffitt, D. G.** (2016). Improving decision making for transportation capacity expansion: Qualitative analysis of best practices for regional transportation plans. *Transportation Research Record*, *2568*, 1–8.

Song, Y.; Miller, H. J.; Zhou, X.; and **Proffitt, D. G.** (2015). Modelling Visit Probabilities Within Network-Time Prisms Using Markov Techniques. *Geographical Analysis, 48(1)*, pp. 18-42.

Buckman, S.; Ellin, N. & **Proffitt, D. G.** (2013). Desert Urbanism: Canalscape for Metropolitan Phoenix. *Journal of Urban Renewal & Regeneration, 7(13)*, pp. 42-54.

## Book Chapters

**Proffitt, D. G.** (2020). Difference of Means Tests (*T*-Tests). In R. Ewing & K. Park (eds.), *Basic Quantitative Research Methods for Urban Planners* (pp. 174-195). Routledge.

Musunuru, A.; **Proffitt, D.G.**; Ewing, R.; & Greene, W. (2020). Poisson and Negative Binomial Regression. In R. Ewing & K. Park (eds.), *Advanced Quantitative* *Research Methods for Urban Planners* (pp. 77-93). Routledge.

Terzano, K.; **Proffitt, D. G.**; Siddiq, F.; & Ewing, R. (2020).Planning Journals and Topics. In R. Ewing & K. Park (eds.), *Advanced Quantitative* *Research Methods for Urban Planners* (pp. 46-72). Routledge.

## Peer-Reviewed Research Reports

**Proffitt, D. G.**, Dillon, A., & Ewing, R. (2019). *Orem City Parking Study*. Final report prepared for Orem City Council. Orem, Utah.

Bartholomew, K. & **Proffitt, D. G.** (2017) Building Planner Commitment: Are California’s SB 375 and Oregon’s SB 1059 Models for Climate-Change Mitigation? NITC-RR-868. Portland, OR: Transportation Research and Education Center (TREC), July 2017. <http://dx.doi.org/10.15760/trec.188>.

## Select Periodicals

“Lessons Learned: Denver’s Rough Road to I-70 Expansion,” *Planning*. March 2017. <https://www.planning.org/planning/2017/mar/research/>

“Pod Living,” *dwell*. March 2005. <http://www.dwell.com/articles/pod-living.html>

“Love’s Labors Found,” *dwell*. June 2005. <http://www.dwell.com/articles/loves-labors-found.html>

“Houses of the Holy,” *dwell*. March 2004. http://www.dwell.com/articles/houses-of-the-holy.html

“Hot Houses,” *Metro*. June/July 2003. p. 43-51.

# Research GRANTS & contracts

Co-authored “Quantifying the Impacts of Corridor Management,” National Highway Cooperative Research Program 08-124. Developing framework to apply performance metrics and other best practices to management of **multi-modal transportation corridors**. National Academy of Sciences. $500,000. Contract period: 2019 – 2021.

Co-authored “Metropolitan Planning Organizations: Strategies for Future Success,” National Highway Cooperative Research Program 08-122. Identifying **innovative practices for metropolitan planning organizations** when addressing long-term, systemic, “wicked” problems. National Academy of Sciences. $400,000. Contract period: 2019 – 2021.

“Building Planner Commitment: Are Oregon’s SB 1059 & California’s SB 375 Models for Climate-Change Mitigation?” Evaluated the effectiveness of state climate change-mitigation laws in California and Oregon. The National Institute for Transportation and Communities. $74,643. Grant period: 2015 –2017.

“Mitigating the Urban Heat Island in Pune, Maharashtra.” **Modeled impact of urban heat island mitigation strategies in Pune, India**; shared findings with civil-society groups. Fulbright Program. $25,000. Grant period: 2011 – 2012.

# Fellowships & Awards

Fellow, Eno Transportation Center Future Leaders Development Conference. 2017

Nelson Medal for Outstanding Doctoral Scholarship. University of Utah. 2017

Best thesis presentation. National Transportation and Communities Summit. Sept. 15, 2015. Portland, Ore.

First-Year Doctoral Fellowship. Global Change and Sustainability Center, University of Utah. $56,000. 2012 ‑ 2013

# TEACHING EXPERIENCE

## Department of City & Metropolitan Planning, University of Utah

Field Studies, Lead Instructor (Fall 2019): Revised core undergraduate **research-methods** course to focus on applied, outside-the-classroom field research. Enrollment: 65.

**Climate Action Planning**, Lead Instructor (most recent: Summer 2019): Developed interdisciplinary, undergraduate- and master’s-level course covering strategies for organizations to mitigate climate change and adapt to impacts, including GHG inventories and vulnerability assessments. First taught: Fall 2016. Enrollment: 7-12.

Visual & Written Communication, Co-Instructor (Spring 2019): Collaborated with professional architect to deliver skills-focused, upper-division undergraduate course. Enrollment: 35.

Land Use & Transportation Planning, Graduate Teaching Assistant (Spring 2013): Undergraduate- and master’s-level course covering innovative practices for integrating land-use and transportation planning. Enrollment: 45.

## School of Geographical Sciences & Urban Planning, Arizona State University

Ethics and Theory of Planning, Graduate Teaching Assistant (Spring 2010): Co-created lectures and in-class exercises for undergraduate course covering **ethical practices and the theoretical roots of city planning**. Enrollment: 200.

## Walter Cronkite School of Journalism & Mass Communication, Arizona State University

Online Journalism, Adjunct Instructor (Fall 2007 – Fall 2009): Core course for undergraduate journalism majors covering fundamentals of online storytelling, including reporting and writing, photography, videography, and web design. Typical enrollment: 20.

# professional EXPERIENCE

Assistant Planner & Writer/Editor, **U.S. Bureau of Land Management**, Lower Sonoran Field Office, Phoenix. Edited resource management plan for district the size of Delaware and coordinated review by resource specialists at BLM field and state offices. Wrote section on **climate change impacts**. Led response to public comments. (2009 – 2011)

Editor, *The Arizona Republic*, Phoenix. (2005 – 2009)

Senior Editor, *Arizona Monthly Magazine*, Phoenix. (2004 – 2005)

Managing Editor, *America West Magazine*, Phoenix. (2003 – 2004)

News Writer, Metro Source News Wire, Scottsdale, Ariz. (2001 – 2003)

Reporter/Copy Editor, *The Arizona Republic*, Phoenix. (1997 – 2001)

# CONFERENCE presentations

“Climate Action At A TIP-ping Point? How State-Mandated GHG Reduction Influences Spending Priorities in MPOs’ Transportation Improvement Programs.” Association of Collegiate Schools of Planning Annual Conference, Nov. 5-8, 2020. Online.

“Putting the Brakes on GHG Emissions from Driving: Planner Perspectives on California’s SB 375 and Oregon’s SB 1059.” Association of Collegiate Schools of Planning Annual Conference, Oct. 23-27, 2019. Greenville, S.C.

“TOD vs. TAD: No Contest!” Invited panel presentation at the Rocky Mountain Land Use Institute annual conference. March 7, 2019.

“The Influence of SB 375 & SB 1059 on Decision-Making at California & Oregon MPOs: A Cross-Case Study.” Association of Collegiate Schools of Planning Annual Conference, Oct. 24-28, 2018. Buffalo, N.Y.

“Driving Change: Can State Planning Mandates Reduce Greenhouse Gas Emissions from Automobiles?” Intermountain Sustainability Summit, March 21 & 22, 2018. Ogden, Utah.

“Can Transportation Planning Put Greenhouse Gas Reduction in the Express Lane? Evidence from California’s SB 375 and Oregon’s SB 1059.” Association of Collegiate Schools of Planning Annual Conference, Oct. 12-15, 2017. Denver, Colo.

“Accessibility Planning and Vehicle Miles Traveled: A Preliminary Analysis.” Sponsored by Transportation Research Board committee ADB50: Transportation Planning Applications. Transportation Research Board Annual Meeting, Jan. 8-12, 2017. Washington, D.C.

“Improving Decisionmaking for Transportation Capacity Expansion: A Qualitative Analysis of Best Practices for Regional Transportation Plans.” Invited address to Transportation Research Board committee AB20: Metropolitan Policy, Planning & Processes Committee (“MPO Committee”). Transportation Research Board Annual Meeting, Jan. 10-14, 2016. Washington, D.C.

“Can State Planning Mandates Influence MPOs? Evidence from California’s SB 375 and Oregon’s SB 1059.” Association of Collegiate Schools of Planning 56th Annual Conference, Nov. 3-6, 2016. Portland, Ore.

“Update to Accessibility Planning in American Metropolitan Areas: Are We There Yet?” Transportation for Sustainability, May 6-8, 2015. Washington, D.C.

“Accessibility Planning: State of the Practice at U.S. MPOs.” Invited address to Transportation Research Board committee AB20: Metropolitan Policy, Planning & Processes Committee (“MPO Committee”). Transportation Research Board Annual Meeting, Jan. 11-15, 2015. Washington, D.C.

“Accessibility Planning in American Metropolitan Areas: Are We There Yet?” Transportation Research Board 2015 Annual Meeting, Jan. 11-15, 2015. Washington, D.C.

“Oregon’s SB 1059 and California’s SB 375: Models for Climate-Change Mitigation?” Association of Collegiate Schools of Planning 54th Annual Conference, Oct. 30-Nov. 2, 2014. Philadelphia, Penn.

“A Neighborhood-Scale Model for Understanding Heat Island Effects of New Development.” Salzburg Congress on Urban Planning & Development, May 9-12, 2013. Salzburg, Austria.

“Cooler Cities: Urban Planning Strategies to Mitigate the Urban Heat Island in Pune, India.” Fulbright India Conference, March 3-6, 2012. Kochi, India.

# Academic & Institutional SERVICE

## Reviewer

*Cities* (2020)

*Transportation Research Part D: Transport and Environment* (2019)

*Urban Studies* (2018 – 2019)

Mineta Transportation Institute – San Jose State University (2018)

Center for Transportation, Equity, Decisions and Dollars – University of Texas at Arlington (2016)

## Discussant

Evaluating Climate Planning Efforts – Environmental Planning & Resource Management track. Association of Collegiate Schools of Planning Annual Conference, Oct. 23-27, 2019. Greenville, S.C.

How Do Changing Vehicle Technologies & Land Use Patterns Affect Air Quality? – Environmental Planning & Resource Management track. Association of Collegiate Schools of Planning Annual Conference, Oct. 24-28, 2018. Buffalo, N.Y.

Evaluating Climate Planning Efforts – Transportation & Infrastructure track. Association of Collegiate Schools of Planning Annual Conference, Oct. 24-28, 2018. Buffalo, N.Y.

## University of Utah

Student Advisory Committee for faculty retention, Department of City & Metropolitan Planning, University of Utah. (2015 – 2016)

Campus Sustainability Plan Transportation Committee, University of Utah: Recommended goals and strategies to reduce greenhouse-gas emissions for **Campus Sustainability Plan**. (2014 – 2015)

Dean’s Council, College of Architecture + Planning, University of Utah, Ph.D.-student representative. (2015)

Riparian Corridor Steering Committee, University of Utah: Recommended institutional policies for campus surrounding Red Butte Creek, including **new protections for the creek** in the campus master plan and funding multi-million-dollar **green infrastructure** experiment to control stormwater runoff. (2014)

Friends of Red Butte Creek, University of Utah: Co-founded student group to advocate for **improving institutional stewardship** of a stream flowing from nearby mountains through the campus to the urban core of Salt Lake City; organized volunteer service events centered on the creek; grew membership to more than 1,000 students. (2013-2015)

Ph.D. Committee, Department of City & Metropolitan Planning, University of Utah: Reviewed department policy and advised on admissions to the Ph.D. program. (2013)

# LANGUAGES

Conversational in German

Basic Hindi and Marathi

# PROFESSIONAL certifications & AFFILIATIONS

American Planning Association (APA)

Association of Collegiate Schools of Planning (ACSP)

International Association for Public Participation (IAP2), certification in public engagement

Transportation Research Board (TRB)