

# Kristina M. Currans, Ph.D.

## EDUCATION

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<b>Portland State University</b> <i>Major: Ph.D. in Civil Engineering; Focus: Transportation</i>	<b>Portland, Oregon</b> 2017
<b>Portland State University</b> <i>Major: M.S. in Civil Engineering; Focus: Transportation</i>	<b>Portland, Oregon</b> 2013
<b>Oregon State University</b> <i>Major: B.S. in Civil Engineering</i>	<b>Corvallis, Oregon</b> 2010

## EMPLOYMENT & POSITIONS

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2023-Present	Associate Professor, Planning; School of Landscape Architecture and Planning University of Arizona Affiliated Faculty, Civil and Architectural Engineering and Mechanics, College of Engineering (Fall 2021 - Present)
2017-2023	Assistant Professor, Planning; School of Landscape Architecture and Planning University of Arizona Deputy Director, Transportation Research Institute (2020 - 2022) Assistant Director, Center for Applied Transportation Sciences, College of Engineering (2020 - 2023)
2015-Present	Consultant Work

## PROFESSIONAL CERTIFICATION

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Engineering Intern Certification (E.I), No. 83709EI, Oregon State Board of Registration for Professional Engineers & Land Surveyors (2010)

## DISSERTATION & THESIS

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Currans, Kristina M. Issues in Urban Trip Generation. *Dissertation*. Paper 3778, August 2017. (Available online at: [https://pdxscholar.library.pdx.edu/open\\_access\\_etds/3778/](https://pdxscholar.library.pdx.edu/open_access_etds/3778/)) Advisor: Kelly J. Clifton.

Currans, Kristina M. Improving Vehicle Trip Generation Estimations for Urban Contexts: A Method Using Household Travel Surveys to Adjust ITE Trip Generation Rates. *Masters Thesis*. Paper 987, September 2013. (Available online at: [http://pdxscholar.library.pdx.edu/open\\_access\\_etds/987/](http://pdxscholar.library.pdx.edu/open_access_etds/987/)) Advisor: Kelly J. Clifton.

**SELECTED PUBLICATIONS** (° denotes student co-authors; \* denotes publication substantially based on work completed as a graduate student)

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### *Refereed Journal Articles*

- Stahl, Kenneth and Currans, Kristina, The Trouble With Traffic Studies: Why Bad Traffic Predictions are Making Our Cities Worse and What Courts Should Do About It (February 17, 2024). ABA Real Property, Trust & Estate Law Journal 2024, Available at SSRN: <https://ssrn.com/abstract=4818590> or <http://dx.doi.org/10.2139/ssrn.4818590>

- Currans, Kristina M.; Stahl, Kenneth A. Are Traffic Studies “Junk Science” That Don’t Belong in Court? Viewpoint Article, *Journal of American Planning Association*. (2023)
- Currans, Kristina M.; Abou-Zeid, Gabriella°; McCahill, Chris; Iroz-Elardo, Nicole; Clifton, Kelly J; Handy, Susan; Pineda, Irene°. Households with Constrained Off-Street Parking Drive Fewer Miles. *Transportation*. (2022). DOI: <https://doi.org/10.1007/s11116-022-10306-8>
- Iroz-Elardo, Nicole; Currans, Kristina. Injury burden of introducing e-scooters: A systematic review of e-scooter injury studies using emergency department record review, 2015-2019. *Transportation Research Record: Journal of the Transportation Research Board*. P. 1150-1159. Vol. 2675 (12). (2021). DOI: <https://doi.org/10.1177/03611981211032216>
- Currans, Kristina M.; Abou-Zeid, Gabriella°; Clifton, Kelly J.; Howell, Amanda°; Schneider, Robert. Improving Transportation Impact Analyses for Affordable Housing Developments: A Data Collection and Analysis of Trip Generation Data. *Cities*. Vol. 103 (2020). DOI: <https://www.sciencedirect.com/science/article/pii/S0264275119307048>
- Currans, Kristina M; Abou-Zeid, Gabriella°; Iroz-Elardo, Nicole. Linking Residential Parking to Automobile Transportation Impact Outcomes at a Development-Level. *Transportation Research Record: Journal of the Transportation Research Board*. (2020). (Available online at: <https://journals.sagepub.com/eprint/4U8BYGCR28XMP7SVAQYI/full>).
- Currans, Kristina M.; Nelson, Arthur C.; Chambers, Sam. (2019). A Framework to Operationalize a Deep and Vast Literature for Practice: Translating Land Value Uplift Literature to Estimate Economic Impacts of Multimodal Transportation System Projects. *Transportation Research Record: Journal of the Transportation Research Board of the National Academies*. (Available online at: <https://doi.org/10.1177/0361198119839979>).
- \*Currans, Kristina M.; Clifton, Kelly J. (2018). Exploring ITE’s *Trip Generation Handbook*: Assessing Age of Data and Land-Use Taxonomy in Vehicle Trip Generation for Transportation Impact Analysis. *Transportation Research Part A: Policy and Practice*. Vol 118, pp. 387-398. (Available online at: <https://doi.org/10.1016/j.tra.2018.09.007>).
- Gehrke, Steven R.; Currans, Kristina M.; Clifton, Kelly J (2018). Assessing the Importance of Housing, Accessibility, and Transportation Characteristics on Stated Neighborhood Preference. *International Journal of Urban Sciences*, Vol. 23, No. 1. (Available online at: <https://doi-org.ezproxy2.library.arizona.edu/10.1080/12265934.2018.1436983>).
- Wang, Liming; Currans, Kristina M. (2018). De-Transformation Bias in Non-Linear Trip Generation Models. *Journal of Urban Planning and Development*. Vol. 144 (3), pp. 04018021-1-10
- Howell, Amanda°; Currans, Kristina M.; Gehrke, Steven R.; Norton, Gregory°; Clifton, Kelly J. (2018). Informing the Transportation Impact of Affordable Housing Development Using Travel Survey Data for Trip Generation Analysis. *Journal of Transport and Land Use*, Vol. 11, No. 1, pp. 103-118. (Accessible at: <https://jtlu.org/index.php/jtlu/article/view/1129>).
- \*Currans, Kristina M. (2017). Issues in Trip Generation Methods for Transportation Impact Estimation of Land Use Development: A Review and Discussion of the State-of-the-Art Approaches. *Journal of Planning Literature*, Vol. 32, No. 4, pp. 335-345. (Accessible at: <https://doi-org.ezproxy2.library.arizona.edu/10.1177/0885412217706505>)

### **Book Review**

1. Currans, Kristina M. Review of Forecasting Travel in Urban America: The Socio-Technical Life of an Engineering Modeling World. *Journal of the American Planning Association*. (2025)  
<https://doi.org/10.1080/01944363.2025.2456434>

### **Edited Books**

1. de Abreu e Silva, João; Schneider, Robert J; Van Acker, Veronique; Currans, Kristina M. (Ed.). (June 2023). *Handbook on Transport and Land Use: A Holistic Approach in an Age of Rapid Technological Change*. Edward Elgar.

### **Book Chapter**

1. Nelson, Arthur C.; Hibberd, Robert°; Currans, Kristina M. Transit Station Proximity and Jobs in the U.S. Between the Great Recession and the COVID-19 Pandemic with Implications, Including for the Post-Pandemic Era. Book Chapter for *Handbook on Transit Oriented Development*. Edited by Renne, John. Edward Elgar, London. *Accepted, forthcoming*
2. Schneider, Robert J.; Currans, Kristina M.; Van Acker, Veronique; de Abreu e Silva, João. (June 2023). Introduction: The Transport and Land Use Policy Cycle. In J. de Abreu e Silva; R. J. Schneider; V. Van Acker; K. M. Currans (Ed.), *Handbook on Transport and Land Use: A Holistic Approach in an Age of Rapid Technological Change*. Edward Elgar.
3. Currans, Kristina M.; Van Acker, Veronique; Schneider, Robert J.; de Abreu e Silva, João. (June 2023). Future Directions for Transport and Land-Use Research and Practice. In J. de Abreu e Silva; R. J. Schneider; V. Van Acker; K. M. Currans (Ed.), *Handbook on Transport and Land Use: A Holistic Approach in an Age of Rapid Technological Change*. Edward Elgar.
4. Currans, Kristina M.; Clifton, Kelly J. A framework for estimating multimodal transportation impacts for sustainable development. Book Chapter in *Proportionate Share Impact Fees and Development Mitigation*. Editors and Lead Authors: Arthur C. Nelson; Nicholas, Jim; Juergensmeyer, Julian; Mullen, Clancy. 2022.

### **Comic Book**

1. Clifton, Kelly J.; Currans, Kristina M. Illustrated by Joaquin Golez. Edited by Ryan Alexander-Tanner and Susan Kirtley. (2022) *Moving from Cars to People*. Published by the National Institute of Transportation and Communities.
  - a. Project Page: <https://nitc.trec.pdx.edu/news/moving-cars-people-comic-about-transportation-and-land-use>
  - b. English: [https://ppms.trec.pdx.edu/media/project\\_files/MovingFromCarsToPeople\\_Digital\\_2021\\_128\\_lowres.pdf](https://ppms.trec.pdx.edu/media/project_files/MovingFromCarsToPeople_Digital_2021_128_lowres.pdf)
  - c. Spanish: [https://ppms.trec.pdx.edu/media/project\\_files/TransportationComicDigitalSpanish\\_reduced.pdf](https://ppms.trec.pdx.edu/media/project_files/TransportationComicDigitalSpanish_reduced.pdf)

### **Selected Research Reports**

- Clifton, Kelly J.; Currans, Kristina M. Communicating Research Through Comics: Transportation and Land Development (May 2023). Available at: <https://nitc.trec.pdx.edu/research/project/1532>.
- Iroz-Elardo, Nicole; Keith, Ladd; Currans, Kristina; Avila, Ash°; Heath, Lauren°; Little, Brenden J. °; Wisler, Ethan C. °; Birkelbach, Andrew J°. Final report for the National Institute for Transportation and Communities project: “Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation”. (2023). Available at:

[https://nitc.trec.pdx.edu/research/project/1483/Assessing\\_Cool\\_Corridor\\_Heat\\_Resilience\\_Strategies\\_for\\_Human-Scale\\_Transportation](https://nitc.trec.pdx.edu/research/project/1483/Assessing_Cool_Corridor_Heat_Resilience_Strategies_for_Human-Scale_Transportation)

- Currans, Kristina M; Iroz-Elardo, Nicole. Tucson COVID-19 Response: Quantum Q'Straint Automatic Wheelchair Loading Evaluation. Research report for the Tucson Transit Management LLC dba Sun Tran and Federal Transit Authority. Final Report in Editing (December 2022).
- Currans, Kristina M; McCahill, Chris; Iroz-Elardo, Nicole; Clifton, Kelly J.; Handy, Susan; Abou-Zeid, Gabby°. Linking Off-Street Parking with Vehicle Miles Traveled. Research report for the California Department of Transportation (Caltrans). *Final Report, Caltrans* (2022).
- Clifton, Kelly J; Howell, Amanda; Currans, Kristina; Abou-Zeid, Gabriella; Nonamaker, Max; Carder, Paula. Accessing Opportunities for Household Provisioning Post-COVID-19. Final report #NITC-RR-1435 for the National Institute for Transportation and Communities project. (October 2022). Available at:  
[https://nitc.trec.pdx.edu/research/project/1435/Accessing\\_Opportunities\\_for\\_Household\\_Provisioning\\_Post-COVID-19](https://nitc.trec.pdx.edu/research/project/1435/Accessing_Opportunities_for_Household_Provisioning_Post-COVID-19)
  - Project Brief: [https://ppms.trec.pdx.edu/media/project\\_files/1435\\_Project\\_Brief\\_-\\_Household\\_Provisioning\\_During\\_COVID-19.pdf](https://ppms.trec.pdx.edu/media/project_files/1435_Project_Brief_-_Household_Provisioning_During_COVID-19.pdf)
- Broach, Joseph; Currans, Kristina M.; Roll, Josh.; Orrego-Oñate, Jaime P. Incorporating Bicycle Activity and Vehicle Travel Reduction from Bicycle Infrastructure into Strategic Planning Tools. Final report #NITC-RR-1314 for the National Institute for Transportation and Communities. (2022). Available at:  
[https://nitc.trec.pdx.edu/research/project/1314/Incorporating\\_Bicycle\\_Activity\\_and\\_Vehicle\\_Travel\\_Reduction\\_from\\_Bicycle\\_Infrastructure\\_into\\_Strategic\\_Planning\\_Tools](https://nitc.trec.pdx.edu/research/project/1314/Incorporating_Bicycle_Activity_and_Vehicle_Travel_Reduction_from_Bicycle_Infrastructure_into_Strategic_Planning_Tools)
- Currans, Kristina M.; Iroz-Elardo, Nicole; Ewing, Reid; Choi, Dong-ah°; Siracuse, Brandon°; Lyons, Torrey; Fitzpatrick, Quinton°; Griffiee, Julian°. Scooting to a New Era in Active Transportation: Examining the Use and Safety of E-scooters. Prepared for the National Institute of Transportation and Communities, Report No. NITC-RR-1281 (2022).
- Iroz-Elardo, Nicole; Erickson, Helen; Howell, Ariel°; Olson, Melanie°; Currans, Kristina M. Community Engagement in a Pandemic. Prepared for the University of Arizona Drachman Institute Seed Grant. (2021).
- Nelson, Arthur C.; Hibberd, Robert°; Currans, Kristina M. Transit Impacts on Jobs, People, and Real Estate. Prepared for the National Institute of Transportation and communities, (2020/2021). (Available online at:  
[https://nitc.trec.pdx.edu/research/project/1253/LRT/BRT/SCT/CRT\\_Development\\_Outcomes\\_FINAL\\_PHASE](https://nitc.trec.pdx.edu/research/project/1253/LRT/BRT/SCT/CRT_Development_Outcomes_FINAL_PHASE))
- Clifton, Kelly J.; Currans, Kristina M. with Abou-Zeid, Gabby°. Multifamily Housing Trip Generation and Freight Study, Final Report. Prepared for the Portland Bureau of Transportation, (2020).
- Clifton, Kelly J.; Currans, Kristina M. Multimodal Trip Generation, Vehicle Ownership and Use: Characterizing the Travel Patterns of Residents of Multifamily Housing. Prepared for the National Institute of Transportation and Communities, (2019). (Available online at: <https://nitc.trec.pdx.edu/research/project/878>)
- Contributor to the *Parking Generation Manual, 5<sup>th</sup> Edition*. Principal Editor: Kevin G. Hooper; Institute of Transportation Engineers, (Feb. 2019). (Available at: <https://itparkgen.org> and <https://ecommerce.ite.org/IMIS/ItemDetail?iProductCode=IR-034D-E>)

- Currans, Kristina M.; Nelson, Arthur C.; Chambers, Sam (August 2018) Memo on Economic Performance Metrics to Improve Transportation Investment Decision Making Part III: Summary of Initial Analysis, Last-Mile Performance Metric. Sponsored by Smart Growth America.
- Currans, Kristina M.; Nelson, Arthur C.; Ruff, Alex; Chambers, Sam (August 2018) Economic Performance Metrics to Improve Transportation Investment Decision Making Part II, Supplement: Instruction for the UA “Value Added” GIS Tool. Sponsored by Smart Growth America.
- Currans, Kristina M.; Nelson, Arthur C.; Chambers, Sam (August 2018) Economic Performance Metrics to Improve Transportation Investment Decision Making Part II: UA GIS Value Added Tool, A Transportation Project-Level Tool for Estimating the Net Impacts on Real Estate Value. Sponsored by Smart Growth America.
- Currans, Kristina M.; Nelson, Arthur C. (May 2018) Economic Performance Metrics to Improve Transportation Investment Decision Making Part I: Literature Review and Economic Vitality Indicator Concepts. Sponsored by Smart Growth America.
- Clifton, Kelly J; Currans, Kristina M.; Schneider, Robert; and Handy, Susan with Howell, Amanda; Abou-Zeid, Gabby; Bertini Ruas, Edgar; Roan, Sabina; and Gehrke, Steven R. Affordable Housing Trip Generation Rates and Strategies. Prepared for the California Department of Transportation (Caltrans) (September 2018). Contract: 65A0564; Task ID: 2465.
- \*Yang, Liu-Qin; Wipfli, Brad; Wang, Liming; Cyr, Lee°; Currans, Kristina. How do Stressed Workers Make Travel Mode Choices that are Good for their Health, Safety, and Productivity? Prepared for the National Institute for Transportation and Communities, (January 2018). Report: NITC-SS-995
- \*Clifton, Kelly J.; Nico, Larco; Currans, Kristina; Wettach-Glossere, Jael°. Improving Trip Generation Methods for Livable Communities. Prepared for the National Institute for Transportation and Communities, (2017). (Available online at: <http://nitc.trec.pdx.edu/research/project/757/>)

## MEMBERSHIPS, SERVICE, & LEADERSHIP ROLES

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### ***Journal Review Activity (Recently Active)***

- *Journal of Transport and Land Use*
- *Transportation Research Record: Journal of the Transportation Research Board*
- *Transportation*
- *Transportation Letters: International Journal of Transportation Research*
- *Cities*
- *Journal of Urban Planning and Development*
- *Transportation Research Part D: Transport and Environment*
- *Transportation Research Part A: Policy and Practice*

### ***Current Local, National, International Service; Participation on Expert or Technical Panels***

1. Site Visitor Pool, Planning Accreditation Board (PAB) (2025 – Present)
2. Committee Member, Association of Collegiate Schools of Planning AI Taskforce, Subcommittees on Curriculum and Ethics (2025-2026)
3. Committee Member, World Society for Transport and Land Use Research (WSTLUR) (2024 – Present)
4. Editorial Board, Journal of Urban Planning and Development (2018-Present).
5. Transit, Track Chair; World Symposium for Transport and Land Use Research (WSTLUR), Beijing, China (June 2026)

6. Committee Member, Standing Committee on Transportation, Economic Development, and Land Use (AEP16), Transportation Research Board of the National Academies (2025-2028)
  - a. Formerly Standing Committee on Economic and Land Development (AMS50), (2020-2025)
  - b. Standing Committee on Transport and Land Development (ADD30) (2018-2021)
  - c. High-Volume Review Coordinator (2018-2021)
7. Student Award Review Panel, Council for University Transportation Centers (2018-2025)
8. University representative, Main Gate Overlay District, City of Tucson (2024-Present)

***Current Institutional Service – University of Arizona (UA)***

1. Member, Hiring Committee, Architecture Faculty, CAPLA (2025-2026)
2. University of Arizona representative, Main Gate Overlay District Review Committee, City of Tucson (2024-Present)
3. Chair of the General Faculty, College of Architecture, Planning and Landscape Architecture (2025-2027)
4. Member (Chair role), Council of Faculty Members, College of Architecture, Planning and Landscape Architecture (2025-2027)
5. Member, Faculty Status Committee, College of Architecture, Planning and Landscape Architecture (2023-Present)
6. Member, CAPLA representative on Graduate Council, University of Arizona (2022-Present)
7. Member, Faculty Executive Committee (FEC), Drachman Institute, College of Architecture, Planning, and Landscape Architecture (2022-Present)