

Nicole Iroz-Elardo, PhD

Urban Planning Program
School of Architecture Landscape and Planning, University of Arizona
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Professional Preparation

Portland State University	Urban Studies	Doctorate, 2014
	Field 1: Urban Planning	
	Field 2: Urban Health	
University of Utah	Statistics-Econometrics	Post-Bachelorette Studies, 2001-2002
University of Utah	Economics	Bachelors of Science, 2001

Appointments

2018-current	Assistant Research Professor, University of Arizona
2017-2018	Principal, Urban Design 4 Health, Inc.
2015-2017	Project Manager and Analyst, Urban Design 4 Health, Inc.
2015-2017	Researcher, University of British Columbia
2013-2015	Operations and Policy Analyst, Oregon Health Authority, Public Health Division, Health Impact Assessment Group
2010-2015	Adjunct Instructor, College of Urban & Public Affairs, Portland State University
2012-2013	Field Experience Coordinator, School of Community Health, Portland State University
2012-2013	Dissertation Fellowship, Oregon Transportation Research and Education Center (OTREC, now TREC), Portland State University
2009-2010	Graduate Research Assistant, Institute for Metropolitan Studies, Portland State University
2006-2009	Graduate Research Assistant, Institute on Aging, Portland State University
2006-2009	Laurels Scholar, Portland State University
2003-2007	Researcher and Statistical Programmer, Statistics and Information Analysis, Battelle Memorial Institute

Publications

Peer Reviewed Publications

Ladd, K., **Iroz-Elardo, N.**, Austof, E., Sami, I., & Arora, M. (In Press). Extreme Heat at Outdoor COVID-19 Vaccination Sites. *J of Climate Change & Health*.

Iroz-Elardo, N. & Currans, K. (2021). Injury burden of introducing e-scooters: A systematic review of e-scooter injury studies using emergency department record review, 2015-2019. *Transportation Research Record*. doi: [10.1177/03611981211032216](https://doi.org/10.1177/03611981211032216)

Iroz-Elardo, N., A. Adkins, M. Ingram (2021). Measuring Perceptions of Social Environments for Walking: a Scoping Review of Walkability Surveys. *Health & Place*. 67:102468. doi:[10.1016/j.healthplace.2020.102468](https://doi.org/10.1016/j.healthplace.2020.102468)

Currans, K., G. Abou-Zeid, **N. Iroz-Elardo** (2020). Linking Residential Parking to Automobile Transportation Impact Outcomes at a Development-Level. *Transportation Research Record*. 2675(1), 321-331. doi:[10.1177/0361198120964791](https://doi.org/10.1177/0361198120964791).

Iroz-Elardo, N., J. Schoner, E. Fox, A. Brookes, & L.D. Frank (2020). Active Travel and Social Justice: Addressing Disparities and Promoting Health Equity through a Novel Approach to Regional Transportation Planning. *Social Science & Medicine*. 261, 113211. doi: [10.1016/j.socscimed.2020.113211](https://doi.org/10.1016/j.socscimed.2020.113211).

Frank, L.D, N. **Iroz-Elardo**, A. Hong, & K. MacLeod (2019). Pathways from built environment to health: Connecting behavior and exposure based impacts. *Journal of Transport and Health*. 12:319-335. doi: [10.1016/j.jth.2018.11.008](https://doi.org/10.1016/j.jth.2018.11.008).

Schoner, J., J. Chapman, A. Brookes, K. MacLeod, E. Fox, N. **Iroz-Elardo**, & L.D. Frank (2018). Bringing Health Into Transportation and Land Use Scenario Planning: Creating a National Public Health Assessment Model (N-PHAM). *Journal of Transport and Health*. 10:401-418. doi: [10.1016/j.jth.2018.04.008](https://doi.org/10.1016/j.jth.2018.04.008).

Iroz-Elardo, N. & M.M. McGrath (2016). Social Learning through Stakeholder Engagement: New Pathways from Participation to Health Equity in U.S. West Coast HIAs. *Chronicles of Health Impact Assessments*. doi: [10.18060/21351](https://doi.org/10.18060/21351).

Iroz-Elardo, N. (2014). Health impact assessment as community participation: *Community Development Journal*. 50: 280-295. doi: [10.1093/cdj/bsu052](https://doi.org/10.1093/cdj/bsu052)

Iroz-Elardo, N. (2014). Participation, information, values, and community interests within health impact assessments. Dissertation. Portland State University, Portland, OR.

Wilson, N. K., W. Strauss, N. **Iroz-Elardo**, & J.C. Chuang (2010). Exposures of preschool children to chlorpyrifos, diazinon, pentachlorophenol, and 2,4-dichlorophenoxyacetic acid over three years from 2003 –2005: A longitudinal model. *Journal Of Exposure Science And Environmental Epidemiology*. 20(6):546-58.

Strauss, W., L. Ryan, M. Morara, N. **Iroz-Elardo**, M. Davis, M. Cupp, M. Nishioka, J. Quackenboss, W. Galke, H. Özkaynak, & P. Scheidt. (2009). Improving cost-effectiveness of epidemiological studies via designed missingness strategies: *Statistics in Medicine*.

Articles Under Review

Choi, D., Siracuse, B., Currans, K., **Iroz-Elardo, N.**, Lyons, T., Ewing, R. (Under Review) Effects of Intersection Design on Non-Optimal Behaviors of E-Scooter and Other Users. *Cities*.

Avila, A., **Iroz-Elardo, N.**, Currans, K., & Keith, L. (Under Review). Investigating the Influence of Running Vehicles on Personal Heat Exposure at Outdoor COVID-19 Vaccination Sites. Accepted Minority Student Scholar Presentation at Transportation Research Board Annual Conference. Washington DC, January 2022.

Currans, K., Abou-Zeid, G., McCahill, C., **Iroz-Elardo, N.**, Clifton, K., Handy S., & Pineda, I. (Under Review). Households with Constrained Off-Street Parking Drive Fewer Miles. *Transportation*.

Choi, D., Siracuse, B., Currans, K., **Iroz-Elardo, N.**, Lyons, T., & Ewing, R. (Under Review). Effects of Intersection Design on Non-optimal Behaviors of E-Scooter and Other Users. Prepared for Presentation at Transportation Research Board Annual Conference. Washington DC, January 2022.

Non-Peer Reviewed Articles, Publications and Reports

- Iroz-Elardo, N.**, Erickson, H., Howell, A., Olson, M., Currans, K. (2021). Community Engagement in a Pandemic Report. Drachman Institute at the University of Arizona.
<https://capla.arizona.edu/sites/default/files/Community%20Engagement%20in%20a%20Pandemic%20-%202021.pdf>
- Keith, L., **Iroz-Elardo, N.**, Sami, I., & Austhof, E. (2021). Extreme Heat at Outdoor Vaccination Sites: Banner South (Kino) POD Report. The University of Arizona.
- Keith, L., **Iroz-Elardo, N.**, Sami, I., & Austhof, E. (2021). Extreme Heat at Outdoor Vaccination Sites: Tucson Medical Center POD Report. The University of Arizona.
- Keith, L., **Iroz-Elardo, N.**, Sami, I., & Austhof, E. (2021). Extreme Heat at Outdoor Vaccination Sites: UArizona POD Report. The University of Arizona.
- Nelson, A. C., Hibberd, R., Currans, K., & Iroz-Elardo, N. (2021). *Transit Impacts on Jobs, People and Real Estate (Volumes 1-5)* (No. NITC-RR-1253). <https://trid.trb.org/view/1845663>
- Bean, J., Currans, K., & **Iroz-Elardo, N.** (2020). *Unmasking Invisibility*. Interactions. 27(3): 22-23. Available online at <https://dl.acm.org/doi/fullHtml/10.1145/3386379>
- Iroz-Elardo, N.** (2019). *Health Impact Assessment of Hillside Master Plan: Final Report*. Clackamas County Public Health Department. September 2019: Oregon City, Oregon. Available online at <https://dochub.clackamas.us/documents/drupal/fdca6ed7-357a-4b97-8080-ea99c315510c>
- Chapman, J., Whitfield, K., **Iroz-Elardo, N.**, Henley, C., Alfonsin, N., Hagerman, L. Frank, L. (2019). *Integrating Health and Transportation in Canada*. Ottawa, ON: Transportation Association of Canada. Available online at <https://www.tac-atc.ca/sites/default/files/site/doc/Bookstore/ptm-ihtc-e.pdf>
- Iroz-Elardo, N.**, Fox EH, Schoner, J, Chapman J, Frank LD. *TASK 3: Public Health Analysis of Draft Scenarios – Final*. Rochester (NY): Urban Design 4 Health; 2018. Contract No.: C-18-019. Supported by San Joaquin Council of Governments. Available online at <https://www.sjcog.org/DocumentCenter/View/3769/Final-2018-RTPSCS-Technical-Appendix-N---Public-Health-Indicators-Report?bidId>
- DeVries, D., **Iroz-Elardo, N.**, Hong, A., Winters, M., Brauer, M., Frank., L. (2017). *Fixed-Guideway Transit Investment: A Review of Methods and Best Practice*. University of British Columbia for City of Vancouver and Vancouver Coastal Health Authority. Vancouver, British Columbia. Available online at <https://open.library.ubc.ca/media/download/pdf/52383/1.0368659/5>.
- Iroz-Elardo, N.**, Chapman, J., Moland, A., Frank, L.D., Behr, C., Brockmyer, R., & Vyas, M. (2017). *Economic Impacts of Active Transportation: Utah Active Transportation Benefits Study – Final Report*. UD4H for Utah Transit Authority. Salt Lake City, UT. Available online at <https://bikeutah.org/atbenefitsstudy/>.
- UD4H & AECOM (2016). *Active Transportation, Health, and Economic Benefit Study*. Southern California Association of Governments. Los Angeles, CA. Available online at <http://www.scag.ca.gov/programs/Pages/PublicHealthResources.aspx?opentab=3>.
- Neal, M.B., DeLaTorre, A., Cahill, K.E., **Iroz-Elardo, N.**, Lottes, J., & Truxillo, D. (February 2016). *The Case for Age Friendly Cities*. Portland State University – Institute on Aging. Portland, OR.
- Iroz-Elardo, N.**, Champan, J., Frank, L.D., Riggs, W. (2015). *Environmental Justice Technical Assistance for the Regional Transportation Plan & Sustainable Communities Strategy*. UD4H for Southern California Association of Governments. Los Angeles, CA.

Haggerty, B., A. Hamberg, J. Early-Alberts, C. Cude, and N. **Iroz-Elardo** (2015). *Transportation Research Brief*. Public Health Division, Oregon Health Authority. Portland, Oregon.

Iroz-Elardo, N., A. Hamburg, E. Main, B. Haggerty, J. Early-Alberts, and C. Cude. (2014). *Climate Smart Strategy health impact assessment*. Portland, OR, Oregon Health Authority. Available online at https://www.oregon.gov/oha/ph/HealthyEnvironments/TrackingAssessment/HealthImpactAssessment/Documents/CSCS/OHA-PHD_CSS%20HIA_Final.pdf

Iroz-Elardo, N., A. Hamburg, E. Main, J. Early-Alberts, and J. Douglas. (2014). *Community Climate Choices Health Impact Assessment*. Portland, Oregon, Oregon Health Authority.

Stakeholder Participation Working Group of the 2010 HIA in the Americas Workshop. (2012). *Best Practices for Stakeholder Participation in Health Impact Assessment*. Oakland, CA.

Conference Attendance, Presentations and Posters (2018-2021)

- ✓ Washington Bike Summit. April 29-30, 2018. Spokane, WA.
- ✓ American Collegiate Schools of Planning. October 25-28, 2018. Buffalo, NY.
- ✓ American Public Health Association. November 10-14, 2018. San Diego, CA.
- ✓ National Institute of Transportation and Communities (NITC) Summit. September 19-20, 2019. Portland, OR.
- ✓ Conference on Health and Active Transportation., hosted by Transportation Review Board (TRB). December 10-12, 2019. Washington DC.
- ✓ 2020 Transportation Review Board, January 12-16. Washington DC
- ✓ 2020 Active Living Conference, February 2-5. Orlando, Florida.
- ✓ American Collegiate Schools of Planning. November 2020. Virtual
- ✓ 2021 Transportation Review Board Meeting. January 2021. Virtual.

Iroz-Elardo, N. & Currans, K. Injury burden of introducing e-scooters: A systematic review of e-scooter injury studies using emergency department record review, 2015-2019. Accepted for presentation at *2021 TRB Meeting/TRR*.

Abou-Zeid, G., Currans, K., McCahill, C., **Iroz-Elardo, N.**, Clifton, K., Handy, S., & Pineda, I. Households with Constrained Off-Street Parking Drive Fewer Miles. Presentation at *2021 TRB Meeting*.

Currans, K., Hibberd, R., **Iroz-Elardo, N.**, & Nelson, C. Regional Differences in the U.S. Real Estate Market Response towards Proximity of Fixed Route Transit Systems. Presentation at *2021 TRB Meeting*.

Iroz-Elardo, N. & Keith, L. Synthesis of Climate-adaptive Design in Outdoor Physical Activity Spaces for Health Equity. Presentation at *2020 ACSP*.

Iroz-Elardo, N. & Keith, L. (2020). Heat and healthy habits: supporting physical activity in an era of increased extreme heat risk. Poster at 2020 Active Living Conference, February 2-5, 2020.

Adkins, A., Ingram, M., **Iroz-Elardo, N.**, Sonmez, E. (2020). Workshop: QPED Toolkit – Qualitative Pedestrian Environments Data for better, more equitable transportation decision-making. 2020 Active Living Conference, February 2-5, 2020.

Currans, K., Abou-Zeid, G., & **Iroz-Elardo, N.** (2020). Linking Residential Parking to Automobile Transportation Impact Outcomes at a Development Level. 2020 Transportation Review Board Meeting. Washington, DC.

Iroz-Elardo, N., A. Adkins, M. Ingram. (2020). Measuring Perceptions of Social Environments for Walking: a Systematic Review of Walkability Surveys. Poster at 2020 Transportation Review Board Meeting. Washington, DC.

Iroz-Elardo, N., Wilkening, B., Keith, L., Diamond, K., Cortell-Crawford, P. (2019). Brow Bag: Heat Mitigation through Green Infrastructure. Water Resource Research Center at University of Arizona, Tucson, AZ, November 19, 2019.

Adkins, A., M. Ingram, **N. Iroz-Elardo**, E. Sonmez. (2019). Workshop: QPED Toolkit – Qualitative Pedestrian Environments Data for better, more equitable transportation decision-making. 2019 National Institute of Transportation and Communities (NITC) Summit. Portland, Oregon.

Iroz-Elardo, N., A. Adkins, M. Ingram. (2019). The pedestrian environment: evaluating walkability and environmental survey instruments for social context. Poster at 2019 Active Living Research Conference in Charleston, SC, February 17-20, 2019.

Landgrave-Serrano, M., Adkins, A., **Iroz-Elardo, N.**, Ingram, M., Oden, H. (2019). Development and Testing of a Toolkit for Collecting Qualitative Pedestrian Environment Data. 2019 Transportation Review Board Meeting. Washington, DC.

Iroz-Elardo, N., L.D. Frank, J. Schoner, & E. Fox. (2018). Predicting physical activity & BMI for Communities of Concern: Stockton, CA 2018 Regional Transportation Plan. 2018 American Public Health Association, San Diego, CA.

Iroz-Elardo, N., L.D. Frank, D. DeVries, A. Hong, M. Winters, & M. Brauer. (2018). The Health Impacts of Fixed-Guideway Transit Investments: A Systematic Review. Poster at 2018 American Collegiate Schools of Planning, Buffalo, NY.

Iroz-Elardo, N., L.D. Frank, J. Schoner, & E. Fox. (2018). Predicting physical activity & BMI for Communities of Concern: Stockton, CA 2018 Regional Transportation Plan. 2018 American Collegiate Schools of Planning, Buffalo, NY.

Iroz-Elardo, N., & E. Fox. (2018). Making the Case: Monetizing Health, Environmental, and Economic Benefits of Biking. 2018 Washington Bike Summit, Spokane WA.

Schoner, J., J. Chapman, A. Brookes, K. MacLeod, E. Fox, **N. Iroz-Elardo**, & L.D. Frank (2018). Creating a National Tool for Walking and Public Health Scenario Planning. 2018 Transportation Research Board Annual Meeting, Washington DC.

Current Grant Funding

Project Name	Size, Years	Primary Client	Role
Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation	\$75,000 2021-22	National Institute of Transportation and Communities (NITC)	Managing Co-PI with Keith & Currans
Extreme Heat in Outdoor COVID Vaccine Sites	\$8,403, 2021	UArizona Research, Innovation and Impact (RII)	Co-PI with Keith
Participation and Community Engagement in COVID	\$7,000 2020-2021	Drachman/CAPLA Seed Grant	Co-PI with Currans and Erikson
Regional Transportation Health Study	\$12,089 2019-2020	Southern Nevada Regional Transportation Authority	UA Co-PI
Supporting Safe Childcare Reopening in COVID	\$14,000 2020	Community Foundation of Southern Arizona	PI
Understanding Connections Between Mobility, Transportation, and Quality of Life in Refugee Communities in Tucson, Arizona	\$101,839 2020-2021	National Institute of Transportation and Communities (NITC)	Co-PI (Orhon PI)
App-based Data Collection to Characterize Latent Transportation Demand within Marginalized and Underserved Populations	\$127,962 2020-2021	National Institute of Transportation and Communities (NITC)	Co-PI (PI Fields)
E-Scooters and Public Health: Understanding the Implications of E-Scooters on Chronic Disease	\$20,000 2019-2020	National Institute of Transportation and Communities (NITC)	PI
Scotting to a New Era in Active Transportation: Examining the Use and Safety of E-Scooters	\$53,702 2019-2020	National Institute of Transportation and Communities (NITC)	Co-PI with Currans
Is Transit-Oriented Development Affordable for Low and Moderate Income Households (in terms of H+T)?	\$145,650 2019-2020	National Institute of Transportation and Communities (NITC)	Co-PI with Ewing as PI
Climate Resilience for Physical Activity and Health: Understanding the Thermal Microclimate of Splash Pads in Tucson Parks	\$5,000 2019	Internal Grassroots Initiative (UA)	PI
Parking Utilization and VMT	\$240,468 2019-2021	Caltrans	Co-PI with Currans

Past Grant Funding (post 2018)

Project Name	Size, Years	Primary Client	Role
Health Impact Assessment for the Hillside Public Housing Master Plan	\$25,000 2018-19	Clackamas County Public Health	PI
Updating and Expanding Fixed Guideway Data and Analysis – Phase 2 (2018)	\$73,7333 2018-2020	National Institute of Transportation and Communities (NITC)	Investigator (Nelson as PI),

Teaching and Advising

2021

- PLG 514 – Planning Methods (Fall)
- PLG 256 – Sustainable Cities (Online/iCourse Summer)

- PLG 211 – Sex and the City (Spring and Fall, Online/iCourse; conversion to new GenEd requirements in Summer)
- SBE 195A Introduction to Sustainability (UA Global Microcampus; Online/iCourse, Summer and Fall; Live Online Fall)
- SBE 195B Careers in Sustainability – (UA Global Microcampus; Online/iCourse, Summer; Live Online Spring)
- Mentor of 2022 Transportation Review Board Minority Scholar (Ash Avila)

2020

- Adobe Creative Campus Fellow
- PLG 473/573 - Transportation and Society (Co-taught, Spring)
- PLG 211 – Sex and the City (Fall, Online/iCourse)
- SBE 195A Introduction to Sustainability (UA Global Microcampus; Online/iCourse, Summer and Fall; “Flex in-person” Fall)
- SBE 195B Careers in Sustainability – (UA Global Microcampus; Online/iCourse, Summer and Fall)

2019

- PLG 473/573 - Transportation and Society (Co-taught, Spring)
- SBE 195A Introduction to Sustainability – conversion for UA Global Microcampus
- SBE 195B Careers in Sustainability – conversion for UA Global Microcampus
- Guest Lectures: PLG 501 Planning Theory and Practice (Sanderford – Fall)

2018

- Management of NITC Student Support Funds
- Judge of Fall 2018 SBE Capstone Projects
- Internship Proctor for Zetter (Portland State, BS Community Development)
- Graduate Research Assistant Interaction: Barton, Landgrave-Serrano, Abou-Zied
- Advising Sessions: Barton, Higgins (English/Rhetoric), Quarles
- Guest Lectures: SBE Sustainable Cities (Pivo - Fall) and PLG 514 Planning Methods (Currans - Fall)

Prior

- University Studies (Gen Ed) 220 – Understanding Communities: Fall 2010, Fall 2011, Spring 2011
- Urban Studies & Planning 424 – Healthy Communities: Winter 2011, Winter 2012
- Public Health Education 446/546 – Urban Health: Spring 2011
- University Studies (Gen Ed) 234 – Healthy People Healthy Places: Summer 2013
- Urban Studies & Planning 410/510 – Health Impact Assessment: Summer 2014, Summer 2015
- Masters of Public Health Field Experience Coordinator: 2012-2013

Synergistic Activities

- UD4H’s (2016-2017) development team for National Public Health Assessment Model (N-PHAM)
- SANDAG/CalTrans’ (2016-2017) Social Equity Assessment Methodology and Tool (SEAM/SEAT)

- Technical Expert (2017) for World Health Organization’s Health Economic Assessment Tool
- Member (2012-2015) for Northwest Health Impact Assessment Practitioner Group
- Panel Member resulting in Stakeholder Participation Working Group of the 2010 HIA in the Americas Workshop. (2012). Best Practices for Stakeholder Participation in Health Impact Assessment. Oakland, CA.

Collaborators and Other Affiliations

- **Collaborator and Co-Editors**
Archie Adkins – University of Arizona; Larry Frank – University of British Columbia; Billy Riggs – San Francisco University; Meghan Winters – Simon Fraser University; Moriah McSherry McGrath – Portland State University; Kara McLeod – University of California, Los Angeles.
- **Graduate and Thesis Advisors**
Connie Ozawa (chair) – Portland State University; Jennifer Dill – Portland State University; Sy Adler – Portland State University; Stephanie Farquhar – Portland State University; Ellen Bassett – University of Virginia.