

# ANSON STEWART

MIT Department of Civil and Environmental Engineering  
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## EDUCATION

- Massachusetts Institute of Technology | Cambridge, MA [ 2011 – Present ]  
Candidate, Interdepartmental Doctoral Program in Transportation (expected completion June 2017)  
Master of Science in Transportation (June 2014)  
Master in City Planning and Urban Design Certificate (June 2014)
- Swarthmore College | Swarthmore, PA [ 2006 – 2010 ]  
B.A. in Urban Studies  
B.S. in Engineering

## RESEARCH EXPERIENCE

- MIT Transit Lab and JTL Urban Mobility Lab [ 2015 – Present ]  
Research Assistant, developing reliability and matching adjustments for transport accessibility metrics
- MIT Mobility Futures Collaborative [ 2014 – Present ]  
Research Assistant and technical lead, designing and evaluating interactive tools for collaborative design of transit corridors (partners including Barr Foundation, MIT Media Lab, and TransitCenter)
- MIT Transit Lab and ALC-BRT Center of Excellence [ 2011 – 2014 ]  
Research Assistant, conducted a GIS-based comparison of bus corridors in North America
- Thomas J. Watson Foundation [ 2010 – 2011 ]  
Watson Fellow, spent 12 months in Latin America and Africa researching the reuse of imported vehicles as public transport and implications for the environment, urban form, and transit restructuring

## INDUSTRY/PROFESSIONAL EXPERIENCE

- Transport for London | London, United Kingdom [ 2015 – Present ]  
Customer Experience Analytics visiting researcher, supporting TDM and Stakeholder Engagement teams with interactive mapping tools
- LA Metro | Los Angeles, CA [ 2013 ]  
System-wide Planning / Transit Corridors intern, created dynamic visualizations of high-volume transfer locations and arterial bus network using automatically collected data and open-source software
- Transantiago | Santiago, Chile [ 2012 ]  
Planning intern, helped implement service changes and developed maps of passenger flow and transfers
- School Transportation News | Torrance, CA [ 2010 – 2011 ]  
Contributing Editor, authored articles related to the international reuse of buses from the United States
- Alternatives for Community and Environment | Roxbury, MA [ 2008 – 2009 ]  
Development/Communications intern, supported community organizing and online campaigns
- Fund for Public Interest Research | Newport Beach, CA [ 2007 ]  
Field Manager, guided canvassing teams working on environmental and transport policy campaigns
- Irvine City Council | Irvine, CA [ 2006 ]  
Executive Assistant to City Councilman Steven Choi, reported on transport and community development meetings

## TEACHING/MENTORING EXPERIENCE

- MIT Department of Civil and Environmental Engineering [ 2013 ]  
Teaching Assistant, led discussions for Transportation Policy, the Environment, and Livable Communities (1.253)
- MIT Department of Urban Studies and Planning [ 2013 ]  
Teaching Assistant, prepared materials and organized international visits for BRT Corridor Workshop (11.S940)
- Swarthmore College Writing Center | Swarthmore, PA [ 2007 – 2010 ]  
Writing Associate, assisted peers with written communication, served as a program coordinator (2008-2010)

## ARTICLES

- Stewart, A. (under review). "Mapping Transit Accessibility: Possibilities for Public Participation" *Transportation Research Part A*.
- Stewart, A. and P. C. Zegras (2016). "CoAXs: A Collaborative Accessibility-based Stakeholder Engagement System for Communicating Transport Impacts" *Research in Transportation Economics*, 59, pp. 423-433.
- Stewart, A., J. P. Attanucci, and N. H. M. Wilson (2015). "Ridership Response to Incremental Bus Rapid Transit Upgrades in North America: Demographic and Network Effects" *Transportation Research Record*, 2538, pp. 37–43.

## BOOK CHAPTERS

- Hensher, D., C. Balbontin, C. Q. Ho, C. Mulley, R. Macario, and A. Stewart (forthcoming). "Evaluating BRT and LRT on a level playing field in developed economies: A cross cultural comparison" in F. Ferbrache, editor, *Bus Rapid Transit* volume of *Transport, Mobilities, and Spatial Change* series. Edward Elgar.
- Zegras, P. C., A. Stewart, R. Hidalgo, R. Forray, C. Figueroa, F. Duarte, and J. Wampler (2016). "Designing BRT Oriented Development". Chapter 10 in J.C. Muñoz and L. Paget-Seekins, editors, *Restructuring Public Transport through Bus Rapid Transit*. Policy Press.

## SELECTED PRESENTATIONS, WORKSHOPS, ETC.

- [ 2017 ] "Reliability-Adjusted Accessibility Metrics from Automatic Vehicle Location Data," TransitData 2017 in Santiago, Chile (planned)
- [ 2016 ] "Gospel Oak-Barking Overground Closure and Extension Impacts" (demo with TfL staff), Our Lives in Data at the UK Science Museum in London, United Kingdom
- [ 2016 ] "Comparing Scheduled and Actual Transit Accessibility to Health Centers," Exploring Data and Metrics of Value at the Intersection of Health Care and Transportation: Workshop at the National Academies in Washington, DC
- [ 2015 ] "CoAXs: Interactive mapping for communicating accessibility impacts to support co-creative Transit planning" Thredbo 14, International Conference on Competition and Ownership in land Passenger Transport in Santiago, Chile
- [ 2015 ] "Accesibilidad, el transporte público, y el riesgo vial: nuevas herramientas para visualización interactiva," Road Safety Seminar at Universidad Andrés Bello in Santiago, Chile
- [ 2014 ] "Visualizing urban accessibility metrics for incremental bus rapid Transit Projects: A Participatory Framework," COST&CITTA Joint Conference at the University of Porto in Porto, Portugal
- [ 2014 ] "Future leaders in sustainable transport," Transforming Transportation at the World Bank in Washington, DC

## **AWARDS AND HONORS**

- [ 2015 ] Honorable Mention, Michael Beesley Award, Thredbo International Conference Series
- [ 2014 ] Outstanding MCP Thesis, Department of Urban Studies and Planning, MIT
- [ 2011 ] Third Place Poster in the Economics, Finance, Policy and Land Use Category, MIT Transportation Showcase
- [ 2010 ] Ivy Award, Swarthmore College, for leadership, scholarship, and contributions to the college community
- [ 2010 ] Bramson Prize in Sociology/Anthropology at Swarthmore, for undergraduate urban studies thesis
- [ 2008 ] Elected to Tau Beta Pi, The National Engineering Honor Society
- [ 2008 ] Honorable Mention, Alice Crossley Prize in Asian Studies at Swarthmore, for paper on railroads and Beijing's urban form
- [ 2006 ] Irvine Company Student Leadership Award Winner

## **COMMUNITY ENGAGEMENT**

- MIT Transportation Students Group | Cambridge, MA [ 2011 – 2012 ]  
Conference Coordinator, arranged and introduced speakers at annual New York City TDC conference
- Swarthmore College Senior Class Council | Swarthmore, PA [ 2009 – 2010 ]  
Vice President, led student shuttle scheduling and coordinated events
- Tau Beta Pi, Pennsylvania Kappa Chapter | Swarthmore, PA [ 2009 – 2010 ]  
Swarthmore chapter President, organized conference attendance and professional development program
- greenRELAY | Los Angeles, CA [ 2009 – 2010 ]  
Leader, worked with community organizations and students to develop an online platform about environmental justice, funded by an \$11,500 Lang Opportunity Scholarship grant
- Chester-Upland School District | Chester, PA [ 2006 – 2010 ]  
Volunteer in afterschool programs to encourage students to consider college options and engineering careers
- Orange County Human Relations Council | Santa Ana, CA [ 2001 – 2006 ]  
Member of the Board of Directors (2005-2006) and Human Relations Associate (2001-2005)

## **ANALYSIS, COMMUNICATION, AND SOFTWARE SKILLS**

- Processing large datasets, particularly from automatic data collection systems for transport (PostgreSQL, MS Access, Python, Java, R)
- Generating interactive spatial data visualizations and online maps (PostGIS, QGIS, ArcGIS, d3, Leaflet, carto, Mapbox)
- Creating compelling graphics and presentation materials (Photoshop, Illustrator, InDesign)
- Modeling travel demand (Cube, TransCAD)

## **LANGUAGES**

English: Native

Spanish: Proficient in reading and speaking