

EDUCATION

Virginia Tech, Blacksburg, VA May 2019 (Expected)
Ph.D. Planning, Governance, and Globalization (*Track: Urban & Environmental Design & Planning*)
Dissertation: *Emotional Agents: Modeling Satisfaction, Affinity, and Travel Demand Using a Smartphone Travel Survey*
Committee: Ralph Buehler (Co-Chair), Steve Hankey (Co-Chair), Yingling Fan, and Tom Sanchez.

The University of Iowa, Iowa City, IA May 2015
M.Sc. Urban and Regional Planning
Graduate Certificate in Transportation Studies

Hanoi Architectural University, Hanoi, Vietnam June 2011
B.Eng. Urban Construction Management

RESEARCH INTERESTS

Travel Behavior, Environment, Physical & Mental Health, Activity-Travel Patterns, Data Analytics

RESEARCH EXPERIENCE

Graduate Research Assistant Aug 2015 – Present
School of Public and International Affairs and Virginia Tech Transportation Institute Blacksburg, VA
Virginia Tech

Visiting Researcher June 2018 – Aug 2018
Department of Civil, Environmental and Geodetic Engineering, The Ohio State University Columbus, OH

Graduate Research Assistant Aug 2013 – May 2015
School of Urban and Regional Planning, The University of Iowa Iowa City, IA

Research Staff (dual appointment) July 2011 – July 2012
National Institute for Urban and Rural Planning, Vietnam Ministry of Construction Hanoi, Vietnam

TEACHING EXPERIENCE

Co-Instructor, UAP 5114: Computer Applications in Planning (GIS) (graduate), Virginia Tech Fall 2018

Guest Lecturer, UAP 5224: Planning Methods and Techniques (graduate), Virginia Tech Fall 2018

Guest Lecturer, UAP 4764: International Development (senior/graduate), Virginia Tech Fall 2017

Guest Lecturer, UAP 2014: Urbanization and Development (undergraduate), Virginia Tech Spring 2017

Teaching Assistant, URP 4162: Transportation Demand Analysis (senior/graduate),
The University of Iowa Spring 2015

Lab Assistant, GIS/TransCAD Lab, The University of Iowa Fall 2013 & Spring 2014

PROFESSIONAL EXPERIENCE

Graduate Planning Consultant

Iowa Initiative for Sustainable Communities, The University of Iowa

Aug 2014 – May 2015

Iowa City, IA

Urban Planner

National Institute for Urban and Rural Planning, Vietnam Ministry of Construction

July 2011 – June 2013

Hanoi, Vietnam

REFEREED JOURNAL ARTICLES

1. **Le, HTK.**, Buehler, R., Hankey, S. (2018). Correlates of the Built Environment and Active Travel: Evidence from 20 US Metropolitan Areas. *Environmental Health Perspectives* 126(7).
2. Glasgow, T., Geller, S.E., **Le, HTK.**, Hankey, S. (2018). Travel Mood Scale: Development and validation of a survey to measure mood during transportation. *Transportation Research Part F: Traffic Psychology and Behaviour*, 59, 318–329.

Under Review:

3. **Le, HTK.**, Buehler, R., Hankey, S. Have Walking and Bicycling Increased in the US? A 13-Year Longitudinal Analysis of Count Data in 13 US Metropolitan Areas. *Transportation Research Part D: Transport and Environment*. (Revise & Resubmit).
4. **Le, HTK.**, West, A., Quinn, F., Hankey, S. Advancing cycling among women: An exploratory study of North American cyclists. *Journal of Transport and Land Use*. (Revise & Resubmit).
5. **Le, HTK.**, Li, M., Carrel, A.L. Linking satisfaction with behavior: Can (dis)satisfaction predict transit user attrition over time? *Transportation*. (Under Review).
6. **Le, HTK.**, Carrel, A.L. Unfolding the dynamics of transit user's satisfaction and emotions: A multi-week smartphone study. *Transportation*. (Under Review).

MANUSCRIPTS IN SUBMISSION

1. **Le, HTK.**, Buehler, R., Fan, Y., Hankey, S. Affinity for Daily Travel: How Mode and Travel-Based Activity Regulate the Utility of Travel.
2. Hankey, S., Zhang, W., **Le, HTK.**, Hystad, P., James, P. Using Google Street View imagery and Point of Interest data to predict spatial patterns of bicycling and walking.
3. Glasgow, T., **Le, HTK.**, Fan, Y., Hankey, S. Impact of transport attributes and the built environment on mood: A tale of three cities.

WORKING PAPERS

1. Exploring the Effect of Satisfaction and Travel Attitude on Mode Choice (with Steve Hankey, Ralph Buehler, and Yingling Fan). *Status: Completed analyses and first draft*.
2. Travel Liking Attitude Revisited: Evidence from a Multiday Smartphone Survey (with Steve Hankey, Ralph Buehler, and Yingling Fan). *Status: Completed analyses*.

3. Impact of Bicycle Facility on Bicycle Traffic: A Multicity Longitudinal Analysis (with Steve Hankey and Ralph Buehler). *Status: In data post-processing.*
4. Online Shopping Behavior and the Role of Information and Communication Technology (with Andre Carrel). *Status: Developed preliminary models.*

SELECTED TECHNICAL REPORTS

1. **Huyen Le**, Ralph Buehler, Steve Hankey (2017). *National-Scale Direct Demand Models for Pedestrian and Bicycle Traffic*. Mid-Atlantic University Transportation Center.
2. Kelly Davila, **Huyen Le**, Andrew Lynch, Kevin Randle, Samuel Sturtz (2015). *Sioux City Active Transportation Plan*. Iowa Initiative for Sustainable Communities, University of Iowa. (Equal contribution).
3. Truc-Anh Nguyen, Hai Dinh, **Huyen Le** (2012). *Underground Facilities: A Planning Approach for Large Cities in Vietnam*. Vietnam Ministry of Construction (in Vietnamese).

CONFERENCE PRESENTATIONS

(with peer-reviewed abstracts or proceedings)

1. **Huyen Le**, Ralph Buehler, Yingling Fan, Steve Hankey. From Travel Satisfaction to Transport Mode Choice: Evidence from a Smartphone Study. *American Association of Geographer Annual Meeting*. Washington, DC. April 2019. (Scheduled).
2. Greg Griffin, Steve Hankey, Ralph Buehler, Boya Dai, **Huyen Le**, Chris Simek. Exploring Street Noise and Bicycle Safety: Initial Evidence from Austin, TX and the Washington, DC Capital Area. *Transportation Research Board Annual Meeting*. Washington, DC. January 2019. (Scheduled).
3. **Huyen Le**, Andre Carrel. Unfolding the dynamics of transit user's satisfaction and emotions: A multi-week smartphone study. *Transportation Research Board Annual Meeting*. Washington, DC. January 2019. (Scheduled).
4. **Huyen Le**, Mingfeng Li, Andre Carrel. Linking satisfaction with behavior: Can (dis)satisfaction predict transit user attrition over time? *Transportation Research Board Annual Meeting*. Washington, DC. January 2019. (Scheduled).
5. **Huyen Le**, Ralph Buehler, Yingling Fan, Steve Hankey. Exploring the Role of Travel Satisfaction and Travel Liking Attitude on Mode Choice. *Association of Collagiate Schools of Planning Annual Conference*. Buffalo, NY. October 2018.
6. **Huyen Le**, Ralph Buehler, Yingling Fan, Steve Hankey. Travel-Liking Attitude Revisited: Evidence from Washington, DC and Blacksburg, VA. *Association of Collagiate Schools of Planning Annual Conference*. Buffalo, NY. October 2018.
7. Steve Hankey, **Huyen Le**, Wenwen Zhang. Leveraging Google Place of Interest (POI) Data and Machine Learning to Predict Bicycle and Pedestrian Traffic Volumes for the Contiguous US. *Association of Collagiate Schools of Planning Annual Conference*. Buffalo, NY. October 2018.

8. **Huyen Le**, Ralph Buehler, Steve Hankey. Impact of the Built Environment on Active Travel: A Longitudinal Study of 13 US Metropolitan Areas. *International Society of Environmental Epidemiology (ISES-ISEE 2018 Joint Meeting)*, Ottawa, Canada. August 2018.
9. **Huyen Le**, Fionnuala Quinn, Alyson West, Steve Hankey. Exploring the Utilitarian and Non-Utilitarian Bicycling Behaviors of North American Women Cyclists. *International Society of Environmental Epidemiology (ISES-ISEE 2018 Joint Meeting)*, Ottawa, Canada. August 2018.
10. **Huyen Le**. Online shopping behavior of US travelers: The roles of internet usage and lifestyle. *National Household Travel Survey Data for Transportation Applications Workshop*. Washington, DC. August 2018.
11. **Huyen Le**, Ralph Buehler, Yingling Fan, Trevin Glasgow, Steve Hankey. Exploring Travel Affinity Associated with Travel Modes and Activity during Trips. *Transportation Research Board Annual Meeting*, Washington, DC January 2018.
12. **Huyen Le**, Ralph Buehler, Steve Hankey. Toward Generalizability in Direct-Demand Modeling: Exploratory Models from 20 U.S. Jurisdictions. *Transportation Research Board Annual Meeting*, Washington, DC January 2018.
13. Steve Hankey, **Huyen Le**, Ralph Buehler. Impacts of the Built Environment on Active Travel: Evidence from 20 US Metropolitan Areas. *Association of Collagiate Schools of Planning Annual Conference*, Denver, CO. October 2017.
14. **Huyen Le**, Ralph Buehler, Yingling Fan, Trevin Glasgow, Steve Hankey. Exploring Travel Affinity Associated with Travel Modes and Activity during Trips. *Association of Collagiate Schools of Planning Annual Conference*, Denver, CO. October 2017.
15. Trevin Glasgow, **Huyen Le**, Scott Geller, Steve Hankey. Assessing the Impact of Transport Mode, Trip Purpose, and the Built Environment on Mood Using a Smartphone App. *29th Annual Scientific Conference of the International Society of Environmental Epidemiology (ISEE 2017)*, Sydney, Australia. September 2017.
16. **Huyen Le**, Ralph Buehler, Steve Hankey. Impacts of the Built Environment on Active Travel: Evidence from 20 US Metropolitan Areas. *29th Annual Scientific Conference of the International Society of Environmental Epidemiology (ISEE 2017)*, Sydney, Australia. September 2017.
17. **Huyen Le**. Using Data Science to Uncover American Pedestrian and Bicyclist Attitudes and Behavior. *Association of Collagiate Schools of Planning Annual Conference*, Portland, OR. November 2016.
18. **Huyen Le**. Spatial Analysis of Pedestrian and Bicycle Crash along the Network: A Case Study of Northern Virginia. *Symposium of Women in Transportation Seminar – the Fifth International Symposium on Naturalistic Driving Research*, Blacksburg, VA. August 2016.
19. Thomas Skuzinski, **Huyen Le**. Using Cultural Cognition to Understand Travel Mode Choice. *Urban Affairs Association Conference*, San Diego, CA. March 2016.
20. Kelly Davila, **Huyen Le**, Andrew Lynch, Kevin Randle, Samuel Sturtz. Get Active, Sioux City: Lessons Learned from Creating an Active Transportation Plan for an Auto-Dependent, Mid-sized City. *National American Planning Association Conference*, Seattle, WA. April 2015.

21. **Huyen Le**, Qing Xu. Transit Quality of Service Improvement: A Case Study in Iowa City Metropolitan Area. *Upper-Midwest American Planning Association Conference*, Mason City, IA. October 2014.

CAMPUS AND INVITED TALKS

1. **Huyen Le**, Trevin Glasgow, Ralph Buehler, Yingling Fan, Steve Hankey. Affection for Daily Travel: Is Transportation Just a Derived Demand? *Virginia Tech 33rd Graduate Research Symposium*, Blacksburg, VA. March 2017.
2. Trevin Glasgow, **Huyen Le**, Scott Geller, Yingling Fan, Steve Hankey. Designing a Mood Scale for Travel: How Does Mood Differ by Mode and Trip Purpose? *Virginia Tech 33rd Graduate Research Symposium*, Blacksburg, VA. March 2017.
3. **Huyen Le**, Ralph Buehler, Steven Hankey. Multi-City, National-Scale Direct Demand Models of Peak-Period Pedestrian and Bicycle Traffic. *Mid-Atlantic Transportation Sustainability Center Annual Meeting*. Charlottesville, VA. August 2016.
4. **Huyen Le**. Using Spatiotemporal Patterns of Transit Accessibility to Predict Transit Use: A study of the Exposition Light Rail Line in Los Angeles, CA. *Virginia Tech 32nd Graduate Research Symposium*, Blacksburg, VA. March 2016.
5. **Huyen Le**, Hung Duong. Planning for Shared Bathrooms in the Infilled Old Quarter of Hanoi: A Study of Hang-Be Neighborhood. *Hanoi Architectural University Annual Research Symposium*, Hanoi, Vietnam. April 2010.
6. **Huyen Le**, Hung Duong. Community in Bloom: How Public-Participated Landscape Projects Improved Pedestrian Friendliness in Nha-Tho Neighborhood, Hanoi. *Hanoi Architectural University Annual Research Symposium*, Hanoi, Vietnam. April 2009.

HONORS AND AWARDS

Transportation Research Board Doctoral Workshop in Transport Modeling	2018
Travel Grants, various sources at Virginia Tech (Total amount: \$5,350)	2015 – 2018
ACSP Doctoral Workshop Scholarship	2017
Virginia Tech College of Architecture and Urban Studies Research Grant	2017
Tuition Scholarship, Complexity Explorer & Santa Fe Institute	2016
Full Tuition Scholarship and Graduate Research Assistantship, The University of Iowa	2013 – 2015
Best Poster Award, Upper Midwest American Planning Association Conference	2014
Honorable Award for Top-rated Graduates of Class 2011, Hanoi Architectural University	2011
Five-Year Academic Excellence Scholarship, Vietnam Ministry of Education and Training	2006 – 2011
Third Place, Hanoi Architectural University Annual Student Research Symposium	2009 & 2010

SERVICES

Journal Reviewer , Urban Studies and Transport Reviews	2018 –
Co-Founder , Viet Transportation Professional Association and Vietnam Planning Research Initiative	2017 –
Co-Founder/Facilitator , Graduate Student Colloquium (weekly seminar series), Virginia Tech	2016 –
Volunteer Analyst , Women Cycling Project, Association of Pedestrian and Bicycle Professionals	2016 –
Mentor , US-Guide Mentoring Program: Mentor undergraduate and Master's students to prepare for graduate applications and studies abroad	2013 –
Web Manager , ACSP Faculty Women Interest Group	2016 – 2018

PROFESSIONAL AFFILIATIONS

Association of Collegiate Schools of Planning (ACSP)
American Planning Association (APA)
American Association of Geographers (AAG)
International Society of Environmental Epidemiology (ISEE)
Association of Pedestrian and Bicycle Professionals (APBP)
Viet Transportation Professional Association (Viet TPA)

TECHNICAL SKILLS

Analysis & Modeling: Stata, R, Python, Matlab, SPSS, HLM, Biogeme, Stella, Vensim
GIS: ArcGIS, TransCAD, Cube, PostgreSQL/PostGIS, CartoDB
Visualization & Layout: AutoCAD, Adobe Creative Suite, Tableau, LaTeX