

## ZHENHUA CHEN

### Curriculum Vitae

School of Public Policy at George Mason University  
Address: 3351 Fairfax Drive MS: 3B1, Arlington, VA 22201  
Phone: 571-384-8368  
Email: [zchen7@masonlive.gmu.edu](mailto:zchen7@masonlive.gmu.edu)

### EDUCATION

- Ph.D. 2014, School of Public Policy, George Mason University, Virginia, USA  
Dissertation: Transportation and Regional Output in the Northeast Megaregion: A Spatial Econometric CGE Assessment  
Advisor: Dr. Kingsley E. Haynes
- M.A. 2009, College of Economics, Shenzhen University, Guangdong, China  
Concentration: Regional Economics and Transportation Policy
- B.A. 2006, University of Electronic Science and Technology, Zhongshan Institute, Guangdong, China  
Concentration: Economics and E-Commerce

### EXPERIENCE

- 01/2014-Present Research Associate, Center for Transportation Public-Private Partnership Policy, School of Public Policy, George Mason University, Virginia, USA
- 09/2009-12/2013 Graduate Research Assistant, School of Public Policy, George Mason University, Virginia, USA

### HONORS AND GRANTS

Winner of the William H. Miernyk Research Excellence Medal, Regional Research Institute at West Virginia University and Southern Regional Science Association, 2014

Fellow of the 22<sup>nd</sup> ENO Transportation Foundation Leadership Development, 2014

Winner of the 12th Annual Student Paper Competition of the Section on Transportation Policy and Administration, American Society for Public Administration, 2014.

Graduate Student Best Paper Award, Transportation Research Forum, the 55th Annual Forum, 2014.

Winner of the 28th Annual Charles M. Tiebout Prize in Regional Science, Western Regional Science Association, 2014.

International Road Federation Executive Leadership Fellowship, International Road Federation, Washington DC, 2014.

Winner of the Fourteenth Annual Benjamin H Stevens Graduate Fellowship in Regional Science, North American Regional Science Council, \$30,000 awarded for dissertation study, 2013.

Vernon E. Jordan, Jr. Fellowship Award, Economic Club of Washington, D.C. and the Consortium of Universities of the Washington Metropolitan Area, \$10,000 awarded for dissertation study, 2013.

Student Research Grant, \$5,500 awarded for dissertation study, School of Public Policy, George Mason University, 2013.

Second Prize of Student-Led Paper Competition, the 59th Annual North American Meetings of the Regional Science Association, 2012.

Student Research Grant, School of Public Policy, George Mason University, 2012.

First Prize of the International Student Competition, the 8th World High Speed Rail Congress, International Union of Railways (UIC) and American Public Transportation Association (APTA), 2012.

Student Research Grant, School of Public Policy, George Mason University, 2011.  
Graduate Student Best Paper Award, Transportation Research Forum, the 51st Annual Forum, 2010.  
Student Research Grant, School of Public Policy, George Mason University, 2010  
2nd Award of Excellent Paper awarded by Logistics Productivity Promotion Centre of China, 2008.

## **PUBLICATIONS**

### ***Refereed Journal Articles***

**Chen, Z.**, Haynes, K, (Forthcoming 2014). Spatial Impact of Transportation Infrastructure: A Spatial Econometric CGE Approach, *Regional Science Matters – Studies dedicated to Walter Isard*, Adam Rose and Peter Nijkamp (Eds.), Springer-Verlag.

Button, K., **Chen, Z.**, (2014). Demand Forecasting Errors and the Ownership of Infrastructure, *Applied Economic Letters*, 21(7), 494-496.

**Chen, Z.**, Haynes, K,(2014). Public Surface Transportation and Regional Output: A Spatial Panel Approach, *Papers in Regional Science*.

**Chen, Z.** and Haynes, K., (2013). Transportation Capital in the US: A Multimodal General Equilibrium Analysis, *Public Works Management and Policy*.

Daito, N., **Chen, Z.**, Gifford, J., Porter, T. and Gudgel, J., (2013).Implementing Public Private Partnerships during Challenging Economic Times: the I-495 Capital Beltway Express Lanes Project Case Study, *Case Studies on Transport Policy*.1(1):25-45.

**Chen, Z.** (2011). Is the Policy Window Open for High Speed Rail in the United States: A Perspective from the Multiple Streams Model for Policymaking, *Transportation Law Journal*, 38 (2), 115-144.

**Chen, Z.**, Haynes, K,(Under second round review 2013). Regional Impact of Public Transportation Infrastructure: A Spatial Panel Assessment of the U.S. Northeast Megaregion, *Economic Development Quarterly*.

**Chen, Z.**, (Under second round review 2013). Cultural Constraints on High-Speed Rail in the US: Is American Exceptionalism an Explanation?*Transfers*.

**Chen, Z.**, Haynes, K, (Reviewed, resubmitted 2013). Impact of High-Speed Rail on International Tourism: Evidence from China, *Annals of Tourism Research*.

Button, K., **Chen, Z.**, (Under review 2013). Extent Transportation PPPs Approximate to the Economic Theory of Bilateral Monopolies, *Contemporary Economic Policy*.

**Chen.Z.**,Haynes, K, (Under review 2013). Multilevel Assessment of Public Transportation Infrastructure: A Spatial Econometric Computable General Equilibrium Approach. *Annals of Regional Science*.

**Chen, Z.** Daito, N., and Gifford, J., (Under review 2013). Do State Fiscal Constraints Affect Implementation of Highway Public-Private Partnerships? A Panel Fixed Logit Assessment, *Journal of Urban Economics*.

### ***Non-Refereed Articles***

Audikana, A., **Chen.Z.**, (Forthcoming 2014). For the Power, Against the Power: the Political Enunciations of the High-Speed Rail in Europe, United States and China, *Discourses and Ideologies of Mobility*, Marcel Endres, Katharina Manderscheid, and Christophe Mincke (Eds.), Ashgate Publishing.

**Chen, Z.**, Haynes, (Under review 2013). Policy and Planning of High Speed Rail, In Mark Garrett and Geoffrey Golson (ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage

- Chen, Z.**, Haynes, (Under review 2013). Equilibrium\_Modeling, In Mark Garrett and Geoffrey Golson (ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage.
- Haynes, K., **Chen, Z.**, (Under review 2013). Origin-Destination Models, In Mark Garrett and Geoffrey Golson (ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage.
- Chen, Z.**, China Railway Reform Update. *Intercity Rail Passenger Systems Update. A newsletter for the Transportation Research Board's Committee on Intercity Passenger Rail*, Summer 2013.
- Chen, Z.**, Book Review: City Distribution and Urban Freight Transport: Multiple Perspectives (edited by Macharis and Melo). *The Review of Regional Studies*, 2012, 42 (1), 95-97.
- Chen, Z.**, Who Ride the High Speed Rail in the United States: The Acela Express Case Study (December 15, 2009). *Proceedings of the 2010 Joint Rail Conference JRC2010 April 27-29, 2010, Urbana, Illinois, USA*.
- Lu, S., **Chen, Z.**, The Application Research of RFID in Railroad Ticket, *Railway Transport and Economy*, Vol. 30, 2008, pp. 25-27 (in Chinese)
- Lu, S., **Chen, Z.**, Wang, J. and Wu, Y. Research on Automatic Positioning Stocktaking System based on RFID, *Logistics Technology*, Vol. 27, 2008, 8 pp. 212-214 (in Chinese)
- Chen, Z.**, Problem Discussion on Implementing the System of Real Name on Railroad Ticket, *Comprehensive Transportation*, Vol. 313, 2007, pp. 30-33 (in Chinese)

#### TECHNICAL REPORTS

- “Building the Professional Capacity for Multimodal Planning in Virginia”. Sponsored by Office of Intermodal Planning and Investment and Office of the Secretary of Transportation, Commonwealth of Virginia, June, 2012.
- “U.S. Seaports and Megaregions: A Social Network Analysis Approach”. Sponsored by the U.S. Department of Transportation, 2011.
- “State Infrastructure Banks: A Virginia Perspective”. Sponsored by the Office of the Virginia Secretary of Transportation, November, 2010.
- “Mega-regions and Freight: Evidence from the Commodity Flow Survey and Freight Analysis Framework”. Sponsored by the U.S. Department of Transportation, 2010.
- “Five Year Plan Analysis for Demand and Planning of Human Resource in Transportation Industry in Shenzhen”. Sponsored by the Shenzhen Bureau of Transportation, China, 2008.
- “Construction of RFID Card System for Container Truck Management in Shenzhen”. Sponsored by the Shenzhen Bureau of Transportation, China, 2008.
- “Research of the Authorized Mark Implementation for Container Truck Management in Shenzhen”. Sponsored by the Shenzhen Bureau of Transportation, China, 2008.
- “Feasibility Study of GPS Installation on Container Truck in Shenzhen”. Sponsored by the Shenzhen Bureau of Transportation, China, 2008.

#### CONFERENCE PAPERS AND PRESENTATIONS

- Chen, Z.** and Haynes, K., “Multilevel Assessment of Public Transportation Infrastructure: A Spatial Econometric Computable General Equilibrium Approach”, the 53<sup>rd</sup> Annual Meetings of the Southern Regional Science Association, San Antonio TX, March 27-29, 2014.
- Button, K., **Chen, Z.**, “Demand Forecasting Errors and the Ownership of Infrastructure”, the 55th Annual Transportation Research Forum, San Jose CA, March 12-15, 2014.
- Chen, Z.** and Haynes, K., “Multilevel Assessment of Public Transportation Infrastructure: A Spatial

*Econometric Computable General Equilibrium Approach*”, the 53<sup>rd</sup> Annual Meetings of the Western Regional Science Association, San Diego CA, February 16-19, 2014.

**Chen, Z.** and Haynes, K., “*Spatial Impact of Transportation Infrastructure: A Spatial Econometric CGE Approach*”, the 60<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Atlanta GA, November 13-16, 2013.

Button, K., **Chen, Z.**, “*Extent Transportation PPPs Approximate to the Economic Theory of Bilateral Monopolies*”, International Conference of Challenges in Public Private Partnership, Antwerp, Belgium, November 6-7, 2013.

**Chen, Z.**, Daito, N. and Gifford, J., “*Highway Spending and Public-Private Partnership: A Spatial Panel Approach*”, International Conference of Challenges in Public Private Partnership, Antwerp, Belgium, November 6-7, 2013.

**Chen, Z.**, “*Spatial Impact of Transportation Infrastructure: A Spatial Econometric CGE Approach*”, the 53<sup>rd</sup> European Regional Science Association Congress, Palermo, Italy, August 27-31, 2013.

**Chen, Z.** and Haynes, K., “*Re-examing Linkages between Transportation Infrastructure and Economic Performance: A Granger Causality Test on the U.S. Northeast*”, the VII World Conference of Spatial Econometric Association, Washington, DC, July 10-12, 2013.

**Chen, Z.** and Haynes, K., “*Public Transportation Capital in the US: A Multimodal General Equilibrium Analysis*”, the 16<sup>th</sup> Annual Conference on Global Economic Analysis, Shanghai, June 11-14, 2013.

**Chen, Z.** and Haynes, K., “*Transportation and Regional Output: A Spatial Panel Assessment of the US Northeast Megaregion*”, Annual Meetings of the Association of American Geographers, Los Angeles, California, April 9th-13th, 2013.

**Chen, Z.** and Haynes, K., “*Elasticity of Factor Substitution in a CGE Model: A Spatial Econometric Estimation*”, the 52<sup>nd</sup> Southern Regional Science Association Meetings, Washington, D.C. April 4-6, 2013.

Daito, N., **Chen, Z.**, and Gifford, J., “*Research Needs for Virginia Transportation Public-Private Partnership Policy*”, the Transportation Research Board 92<sup>nd</sup> Annual Meeting, Washington, D.C. January 13-17, 2013.

Daito, N., **Chen, Z.**, “*Demand of Bike-Sharing Travels: Evidence from Washington, D.C.*”, will be presented at the Transportation Research Board 92<sup>nd</sup> Annual Meeting, Washington, D.C. January 13-17, 2013.

**Chen, Z.** and Haynes, K., “*Surface Transportation and Regional Output: A Spatial Panel Approach*”, the 59<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Ottawa, Canada, November 7-10, 2012, (Second Prize of Student-Led Paper Competition).

Daito, N., **Chen, Z.**, “*Spatial Analysis of of Bike Sharing Travel Demand: Evidence from Washington D.C.’s Capital Bikeshare*”, the 59<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Ottawa, Canada, November 7-10, 2012.

**Chen, Z.**, Daito, N. and Gifford, J., “*Highway Spending and Public-Private Partnership: A Spatial Panel Perspective*”, the 59<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Ottawa, Canada. November 7-10, 2012.

**Chen, Z.**, Roundtable Discussion 1. “*What are the primary obstacles to having new dedicated HSR infrastructure built in the United States*”, the 8<sup>th</sup> World High Speed Rail Congress, Philadelphia, PA. July 7-9, 2012, (First Prize of the International Student Competition).

**Chen, Z.**, “*Regional Impact of Transportation Investment in the Northeast Region of US: A Spatial Econometric CGE Approach*”, Mid-Continent Regional Science Association 43<sup>rd</sup> Annual Conference, IMPLAN National User’s Conference 9<sup>th</sup> Biennial Conference, Minneapolis, MN. June 8-9, 2012.

Steen, M., Deventer, P., Bruijn, H., Twist, M., Heuvelhof, E., Haynes, K. and **Chen, Z.**, “*Governing Innovation: The Transition to E-Mobility-A Dutch Perspective*”, Electric Vehicle Symposium 26, Los Angeles, California. May 6-9, 2012.

**Chen, Z.**, “*Economic Impact of Intercity Passenger Rail in the Northeast Corridor*”, 58<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Miami, FL. November

2011.

Zhou, X. and **Chen, Z.**, “*Fare Hikes or Service Cuts? Response to the Transit Funding Crisis: A Case Study of Small Bus Systems in Greater Washington D.C. Area.*” 90<sup>th</sup> Transportation Research Board, Washington D.C. January 2011.

**Chen, Z.**, “*Ridership, Fare and On-time Performance: a Granger Causality Analysis of Intercity Passenger Train in the Northeast Corridor.*” 57<sup>th</sup> Annual North American Meetings of the Regional Science Association International, Denver, CO. November 2010.

**Chen, Z.**, “*Who Ride the High Speed Rail in the United States: The Acela Express Case Study.*” 2010 Joint Rail Conference, Urbana-Champaign, IL. April 2010.

**Chen, Z.**, “*Factors Affecting High Speed Rail Ridership in the United States - The Acela Express Case Study.*” 51st Annual Transportation Research Forum, Arlington, VA. March 2010, (Graduate Student Best Paper Award).

## TEACHING EXPERIENCES

	School of Public Policy, George Mason University, Virginia, USA
Spring 2014	PUBP 833 Spatial Econometrics (PhD Level)
Fall 2013	PUBP 721 Transportation Economics (Master level) PUBP 704 Statistical Methods in Policy Analysis (Master level)
Spring 2013	PUBP 804 Multivariate Statistical Analysis in Public Policy (PhD level) PUBP 710 Analytic Methods for Policy Research (PhD level)
Fall 2012	PUBP 705 Advanced Statistical Method for Policy Analysis (Master level)
2008-2009	Shenzhen Science Association Training Center, Guangdong, China Transportation Planning and Management (Undergraduate Level) Case study of Logistic Management (Undergraduate Level) English (Undergraduate Level)
2007-2008	Shenzhen Adult Education School, Guangdong, China Modern Logistic Technology (Undergraduate Level) E-commerce (Undergraduate Level)

## PROFESSIONAL ACTIVITY

Journal reviewer for *Papers in Regional Science*

Journal reviewer for *International Journal of Urban Sciences*

Journal reviewer for *International Journal of Sustainable Transportation*

Journal reviewer for *Annals of Regional Science*

Journal reviewer for *Journal of Transport Geography*

Journal reviewer for *Transportation*

Journal reviewer for *International Regional Science Review*

Conference paper reviewer for *Transportation Research Board*

Conference paper reviewer for *World Conference on Transportation Research*

Member of Association for Public Policy Analysis and Management, USA.

Member of Association of American Geographer, USA.

Member of North American Regional Science Council, USA.

Member of Transportation Research Forum, USA.

Young Member of Committee on Commuter Rail Transportation in TRB, AP070, USA.

**OTHER ACTIVITIES**

USAGE 2.0 Dynamic General Equilibrium Modeling Course Forecasting and Policy Analysis, Monash University in cooperation with US International Trade Commission, Washington, D.C., December 2-6, 2013

Dynamic TERM Regional CGE Course, Centre of Policy Studies, Monash University in cooperation with Polish Academy of Sciences, Warsaw, Poland, September 2-7, 2013

Spatial Econometric Summer Courses, Regional Science Institute at West Virginia University, Morgantown WV, June 10-19, 2012

Transportation and the Economy, NCHRP 20-24(80) Workshop, Potomac MD, April 18-19, 2012

Practical CGE Modeling Courses with GAMS, EcoMod Modeling School, Washington DC, March 26-30, 2012

**SKILLS**

Stata, ArcGIS, NLOGIT4.0/LimDep8.0, Eview, UCINET, GAMS, GEMPACK, Visual Basic, Matlab  
Fluent in English, Mandarin Chinese, and Japanese.