

ZHENHUA CHEN

Sol Price School of Public Policy, University of Southern California
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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 Computable General Equilibrium (CGE) Assessment, Advisor: Kingsley E. Haynes
- M.A. 2009, School of Business, 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

- 08/2014-Present Postdoctoral Research Associate, National Center for Risk and Economic Analysis of Terrorism (CREATE), University of Southern California, California, USA
- 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
- 01/2009-07/2009 Research Associate, The Association of Logistics and Supply Chain Management in Shenzhen, Guangdong, China
- 08/2008-07/2009 Lecturer, Shenzhen Science Association Training Center, Guangdong, China
- 07/2007-07/2008 Lecturer, Shenzhen Adult Education School, Guangdong, China

HONORS AND GRANTS

1. Winner of the RSAI Best Dissertation in Regional Science, the Regional Science Association International, 2014
2. Winner of the William H. Miernyk Research Excellence Medal, Regional Research Institute at West Virginia University and Southern Regional Science Association, 2014
3. Fellow of the 22nd ENO Transportation Foundation Leadership Development, 2014
4. Winner of the 12th Annual Student Paper Competition of the Section on Transportation Policy and Administration, American Society for Public Administration, 2014
5. Graduate Student Best Paper Award, Transportation Research Forum, the 55th Annual Forum, 2014
6. Winner of the 28th Annual Charles M. Tiebout Prize in Regional Science, Western Regional Science Association, 2014
7. International Road Federation Executive Leadership Fellowship, International Road Federation, Washington DC, 2014
8. 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
9. 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
10. Student Research Grant, \$5,500 awarded for dissertation study, School of Public Policy, George Mason University, 2013

11. Second Prize of Student-Led Paper Competition, the 59th Annual North American Meetings of the Regional Science Association, 2012
12. Student Research Grant, School of Public Policy, George Mason University, 2012
13. 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
14. Student Research Grant, School of Public Policy, George Mason University, 2011
15. Graduate Student Best Paper Award, Transportation Research Forum, the 51st Annual Forum, 2010
16. Student Research Grant, School of Public Policy, George Mason University, 2010
17. Second Prize of Excellent Paper awarded by the Center of Logistics Productivity Promotion in China, 2008

PUBLICATIONS

Book

1. Rose, A., Prager, F., **Chen, Z.**, and Chatterjee, S. (Forthcoming, 2016). *Economic Consequence Analysis Tool*. Springer Briefs in Integrated Disaster Risk Management. Springer: Tokyo, Japan.
2. **Chen, Z.**, and Haynes, K. (2015). *Chinese Railways in the Era of High-Speed*. Emerald Group Publishing Limited: Bingley, UK. ISBN-13: 978-1784419851, ISBN-10: 1784419850.

Refereed Articles

1. **Chen, Z.**, Daito, N., and Gifford, J. (2015). Data Review of Transportation Infrastructure Public-Private Partnership: A Meta-Analysis, *Transport Reviews*.
2. **Chen, Z.**, and Haynes, K. (2015). Impact of High Speed Rail on Housing Values: An Observation from the Beijing-Shanghai Line, *Journal of Transport Geography*, 43, 91-100.
3. **Chen, Z.**, and Haynes, K. (2015). Multilevel Assessment of Public Transportation Infrastructure: A Spatial Econometric Computable General Equilibrium Approach. *Annals of Regional Science*, 54(3), 663-685.
4. **Chen, Z.** and Schintler, L. (2015). Sensitivity of Location-Sharing Services Data: Evidence from American Travel Pattern, *Transportation*, 42(4), 669-682.
5. **Chen, Z.**, and Haynes, K. (2015). Regional Impact of Public Transportation Infrastructure: A Spatial Panel Assessment of the U.S. Northeast Megaregion, *Economic Development Quarterly*, 29(3), 275-291.
6. **Chen, Z.**, and Haynes, K. (2015). Regional Economic Output and Public Surface Transportation Infrastructure: a Spatial Granger Approach, *the Review of Regional Studies*, 44(3), 263-279.
7. **Chen, Z.**, (2015). Culture Constraints on High-Speed Rail in the US: Is American Exceptionalism an Explanation? *Transfers: Interdisciplinary Journal of Mobility Studies*, 5(3), 129-135.
8. **Chen, Z.**, and Haynes, K. (2014). Impact of High-Speed Rail on International Tourism Demand in China, *Applied Economic Letters*, 22 (1), 57-60.
9. Button, K., and **Chen, Z.** (2014). Demand Forecasting Errors and the Ownership of Infrastructure, *Applied Economic Letters*, 21 (7), 494-496.
10. **Chen, Z.**, and Haynes, K. (2014). Public Surface Transportation and Regional Output: A Spatial Panel Approach, *Papers in Regional Science*, 94(4), 727-751.
11. **Chen, Z.**, Daito, N., and Gifford, J. (2014). Do State Fiscal Constraints Affect Implementation of Highway Public-Private Partnerships? A Panel Fixed Logit Assessment, *Journal of Transportation*

Research Forum, 53 (2), 111-128.

12. **Chen, Z.** and Haynes, K. (2013). Transportation Capital in the US: A Multimodal General Equilibrium Analysis, *Public Works Management and Policy*, 19(2), 97-117.
13. 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.
14. **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.

Book Chapters

1. **Chen, Z.**, and Haynes, K. (Forthcoming 2016). Transportation Infrastructure and Regional Development in China: A Meta-Analysis, *Socioeconomic Environmental Policies and Evaluations in Regional Science: Essays in Honor of Yoshiro Higano*, Hiroyuki Shibusawa, Katsuhiko Sakurai, Takeshi Mizunoya, Susumu Uchida (Eds.), Springer-Verlag.
2. **Chen, Z.**, and Haynes, K. (Forthcoming 2016). Comparative Assessment of Public Transportation Infrastructure and Regional Economic Development, *Transportation, Knowledge and Space in Urban and Regional Economies*, Kakuya Matsushima and William Anderson (Eds.), Edward Elgar Publishing.
3. Button, K., **Chen, Z.** and Neiva, R. (2016). Is it Just Geography That Makes the US Freight Railroads So Efficient? *Accessibility, Efficiency and Equity. Challenges for Transport and Public Services*, Karst Gears, Tomaz Dentinho and Roberto Patuelli (Eds.), Edward Elgar Publishing.
4. **Chen, Z.**, and Haynes, K. (2015). Exploring Surface Transportation Impact on Economic Output: A Panel Granger Causality Test, *The Rise Of The City: Spatial Dynamics in the Urban Century*, Karima Kourtit, Peter Nijkamp and Roger Stough (Eds.), Edward Elgar Publishing.
5. Haynes, K., and **Chen, Z.** (2015). Infrastructure and Regional Development, *the International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, Noel Castree, Michael Goodchild, Audrey Kobayashi, Weidong Liu, Dick Marston and Douglas Richardson (Eds.), Wiley-AAG.
6. Audikana, A., and **Chen, Z.** (2015). 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.
7. **Chen, Z.**, and Haynes, K. (2014). Spatial Impact of Transportation Infrastructure: A Spatial Econometric CGE Approach, *Regional Science Matters – Studies dedicated to Walter Isard*, Peter Nijkamp, Adam Rose and Karima Kourtit (Eds.), Springer-Verlag.
8. **Chen, Z.**, and Haynes, K. (2014). Policy and Planning of High Speed Rail, In Mark Garrett (Ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage
9. **Chen, Z.**, and Haynes, K. (2014). Equilibrium Modeling, In Mark Garrett (Ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage.
10. Haynes, K., and **Chen, Z.** (2014). Origin-Destination Models, In Mark Garrett (Ed.) *Encyclopedia of Transportation*, Thousand Oaks, CA: Sage.

Non-Refereed Articles

1. **Chen, Z.** (Forthcoming 2016). Book Review: The Organization of Transport: A History of Users, Industry, and Public Policy (edited by Kopper and Moraglio). *Transfers: Interdisciplinary Journal of*

Mobility Studies.

2. **Chen, Z.** (2013). China Railway Reform Update. *Intercity Rail Passenger Systems Update. A newsletter for the Transportation Research Board's Committee on Intercity Passenger Rail*, Summer.
3. **Chen, Z.** (2012). Book Review: City Distribution and Urban Freight Transport: Multiple Perspectives (edited by Macharis and Melo). *The Review of Regional Studies*, 42 (1), 95-97.
4. **Chen, Z.** (2010). Who Ride the High Speed Rail in the United States: The Acela Express Case Study. *Proceedings of the 2010 Joint Rail Conference JRC2010 April 27-29, 2010, Urbana, Illinois, USA.*
5. Lu, S., and **Chen, Z.** (2008). The Application Research of RFID in Railroad Ticket, *Railway Transport and Economy*, 30 (2), 25-27 (in Chinese).
6. Lu, S., **Chen, Z.**, Wang, J. and Wu, Y. (2008). Research on Automatic Positioning Stocktaking System based on RFID, *Logistics Technology*, 27 (8), 212-214 (in Chinese).
7. **Chen, Z.** (2007). Problem Discussion on Implementing the System of Real Name on Railroad Ticket, *Comprehensive Transportation*, 313, 30-33 (in Chinese).

RESEARCH IN PROGRESS

Books

1. **Chen, Z.**, and Haynes, K. (Contract signed, forthcoming 2016). *High-Speed Rail and China's New Economic Geography: Impact Assessment from the Regional Science Perspective*, Edward Elgar Publishing: Cheltenham, UK.
2. Schintler, L., and **Chen, Z.** (Eds.). (In progress, 2016). *Big Data for Urban and Regional Science*. Routledge: New York.

Refereed Articles

1. **Chen, Z.**, Xue, J., Rose, A. and Haynes, K. (Revised, Resubmitted, 2016). Impact of High Speed Rail Investment on the Economy and Environment in China: A Dynamic CGE Analysis, *Transportation Research Part A: Policy and Practice*.
2. **Chen, Z.**, Rose, A., Prager, F. and Chatterjee, S. (under review, 2016). Economic Consequences of Aviation System Disruptions: A Reduced-Form Computable General Equilibrium Analysis, *Transportation Research Part A: Policy and Practice*.
3. **Chen, Z.**, Nobuhiko, D. and Gifford, J. (Under review, 2016). Socioeconomic Impact of Public-Private Partnership in Transportation: A Dynamic CGE Assessment, *Transport Policy*.
4. **Chen, Z.** and Rose, A. (under review, 2016). Economic Resilience to Transportation Failure: A Computable General Equilibrium Analysis, *Transportation*.
5. Prager, F., **Chen, Z.**, and Rose, A. (under review, 2016). Analyzing the Economic Consequences of Disasters across Multiple Threats Using Computable General Equilibrium Modeling. *Economic Systems Research*.
6. **Chen, Z.** and Haynes, K. (under review, 2016). Urban Mass Transit and Housing Price in China: An Exploratory Analysis of Guangzhou, Wuhan and Chengdu.
7. **Chen, Z.** (In progress, 2016). Does Spatial Armington Substitution Matter in Global Trade Analysis.
8. Rose, A., **Chen, Z.**, and Wei, D. (In progress, 2016). Economic Benefits of the U.S. Anti-Dumping Enforcement Policy.
9. Wei, D., **Chen, Z.**, and Rose, A. (In progress, 2016). Estimating the U.S. Free Trade Agreement Enforcement Benefits.

Funded Research

1. Wei, D., **Chen, Z.**, and Rose, A. (In progress, 2016) Development of an Economic Framework to Evaluate Resilience in Recovering from Major Port Disruptions, (\$78,148 supported by METTRANS Tier 1 University Transportation Center, University of Southern California)

TECHNICAL REPORTS

1. Rose, A., **Chen, Z.**, and Wei, D. (2015) Estimating U.S. Anti-Dumping Enforcement Benefits, CREATE, University of Southern California, August. (Sponsored by the U.S. Custom and Border Protection, Department of Homeland Security)
2. Rose, A., Prager, F., **Chen, Z.**, and Chatterjee, S. (2015). A Reduced-Form Approach to Economic Consequence Analysis. CREATE, University of Southern California, July. (Sponsored by the U.S. Department of Homeland Security. Nominee for the U.S. Department of Homeland Security's Office of University Programs Transition Project of The Year 2015)
3. Gifford, J., Nobuhiko, D. and **Chen, Z.** (2012). Building the Professional Capacity for Multimodal Planning in Virginia. Office of Intermodal Planning and Investment and Office of the Secretary of Transportation, Commonwealth of Virginia, June.
4. Gifford, J., Xin, Z., Kelekar, U., Nobuhiko, D., and **Chen, Z.** (2011). U.S. Seaports and Megaregions: A Social Network Analysis Approach. Sponsored by the U.S. Department of Transportation.
5. Gifford, J., Nobuhiko, D. and **Chen, Z.** (2010). State Infrastructure Banks: A Virginia Perspective. Sponsored by the Office of the Virginia Secretary of Transportation, November.
6. Gifford, J., **Chen, Z.**, Xin, Z. Kelekar, U. and Nobuhiko, D. (2010). Mega-regions and Freight: Evidence from the Commodity Flow Survey and Freight Analysis Framework. Sponsored by the U.S. Department of Transportation.
7. Han, B., Nie, W. and **Chen, Z.** (2008). Five Year Plan Analysis for Demand and Planning of Human Resource in Transportation Industry in Shenzhen. Sponsored by the Shenzhen Bureau of Transportation, China.
8. Lu, S., Zhu, B., and **Chen, Z.** (2008). Construction of RFID Card System for Container Truck Management in Shenzhen. Sponsored by the Shenzhen Bureau of Transportation, China.
9. Lu, S., Zhu, B., and **Chen, Z.** (2008). Research of the Authorized Mark Implementation for Container Truck Management in Shenzhen. Sponsored by the Shenzhen Bureau of Transportation, China.
10. Lu, S., Zhu, B., and **Chen, Z.** (2008). Feasibility Study of GPS Installation on Container Truck in Shenzhen". Sponsored by the Shenzhen Bureau of Transportation, China.

CONFERENCE PRESENTATIONS

1. The 9th International Association for China Planning Conference, Chongqing, China, June 19-21, 2015.
2. The XIII NECTAR International Conference, An Arbor, MI, June 14-16, 2015.
3. The 54th Annual Meetings of the Southern Regional Science Association, Mobile, AL, March 27-29, 2015.
4. The 53rd Annual Meetings of the Southern Regional Science Association, San Antonio TX, March 27-29, 2014, (Miernyk Research Excellence Medal).
5. The 55th Annual Transportation Research Forum, San Jose, CA, March 12-15, 2014.
6. The 53rd Annual Meetings of the Western Regional Science Association, San Diego, CA, February 16-19, 2014, (Tiebout Prize in Regional Science).

7. The 60th Annual North American Meetings of the Regional Science Association International, Atlanta GA, November 13-16, 2013.
8. International Conference of Challenges in Public Private Partnership, Antwerp, Belgium, November 6-7, 2013.
9. The 53rd European Regional Science Association Congress, Palermo, Italy, August 27-31, 2013.
10. The VII World Conference of Spatial Econometric Association, Washington, DC, July 10-12, 2013.
11. The 16th Annual Conference on Global Economic Analysis, Shanghai, June 11-14, 2013.
12. The Annual Meetings of the Association of American Geographers, Los Angeles, CA, April 9-13, 2013.
13. The 52nd Southern Regional Science Association Meetings, Washington, D.C. April 4-6, 2013.
14. The Transportation Research Board 92nd Annual Meeting, Washington, D.C. January 13-17, 2013.
15. The 59th Annual North American Meetings of the Regional Science Association International, Ottawa, Canada, November 7-10, 2012, (Second Prize of Student-Led Paper Competition).
16. The 8th World High Speed Rail Congress, Philadelphia, PA. July 7-9, 2012, (First Prize of the International Student Competition).
17. The 43rd Annual Conference of the Mid-Continent Regional Science Association, IMPLAN National User's Conference 9th Biennial Conference, Minneapolis, MN, June 8-9, 2012.
18. The 26th Electric Vehicle Symposium, Los Angeles, CA, May 6-9, 2012.
19. The 58th Annual North American Meetings of the Regional Science Association International, Miami, FL. November 2011.
20. The 90th Transportation Research Board, Washington D.C. January 2011.
21. The 57th Annual North American Meetings of the Regional Science Association International, Denver, CO. November 2010.
22. The 2010 Joint Rail Conference, Urbana-Champaign, IL. April 2010.
23. The 51st Annual Transportation Research Forum, Arlington, VA. March 2010, (Graduate Student Best Paper Award).

TEACHING EXPERIENCES

Price School of Public Policy, University of Southern California, CA, USA

Spring 2015 PPD 501a Economics for Policy, Planning and Development (Master level, Lecturer)

School of Public Policy, George Mason University, VA, USA

Spring 2014 PUBP 833 Spatial Analysis for Policy Evaluation (PhD Level, Teaching Assistant)

Fall 2013 PUBP 721 Transportation Economics and Policy (Master level, Teaching Assistant)

PUBP 704 Statistical Methods in Policy Analysis (Master level, Teaching Assistant)

Spring 2013 PUBP 804 Multivariate Statistical Analysis in Public Policy (PhD level, Teaching Assistant)

PUBP 710 Analytic Methods for Policy Research (PhD level, Teaching Assistant)

Fall 2012 PUBP 705 Advanced Statistical Method for Policy Analysis (Master level, Teaching Assistant)

Shenzhen Science Association Training Center, Guangdong, China

2008-2009 Transportation Management (Undergraduate Level, Lecturer)

Case Study of Supply Chain Management (Undergraduate Level, Lecturer)

Business English (Undergraduate Level, Lecturer)

Shenzhen Adult Education School, Guangdong, China

2007-2008 Modern Logistic Technology (Undergraduate Level, Lecturer)

E-Commerce and Information System (Undergraduate Level, Lecturer)

PROFESSIONAL ACTIVITY

Journal reviewer for *Landscape and Urban Planning*

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 *Transportation Letters*

Journal reviewer for *International Regional Science Review*

Journal reviewer for *the Reviews of Regional Studies*

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.

Young Member of World Conference on Transport Research Society (WCTRS).

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, Geoda, NLOGIT4.0/LimDep8.0, Eviews, UCINET, GAMS, GEMPACK, Visual Basic, Matlab, SQL, and SAP.

Fluent in English, Mandarin Chinese, and Japanese.

REFERENCES

Kingsley E. Haynes

Dean Emeritus and University Professor of Public Policy,
Professor of Decision Sciences, Geography and Public Affairs,
Ruth D. and John T. Hazel, MD Endowed Chair and Eminent Scholar
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George Mason University
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Adam A. Rose

Research Professor
Center for Risk and Economic Analysis of Terrorism Events
Sol Price School of Public Policy
Ralph and Goldy Lewis Hall 230
Los Angeles, CA 90089-0626
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Laurie A. Schintler

Associate Professor of Public Policy,
Associate Director of Center for the Study of International Medical Policies and Practices
School of Policy, Government, and International Affairs
George Mason University
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Jonathan L. Gifford

Professor
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