

# CURRICULUM VITAE

## YAFENG YIN, PH.D.

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(Updated on October 30, 2011)

### PERSONAL DATA

#### 1. EDUCATIONAL BACKGROUND

University of Tokyo, Japan	Civil Engineering	PhD	2002
Tsinghua University, Beijing	Civil Engineering	ME	1996
Tsinghua University, Beijing	Structural Engineering	BE	1994
Tsinghua University, Beijing	Environmental Engineering	BE	1994

#### 2. EMPLOYMENT

University of Florida	Associate Professor	Aug. 2011 – Present
University of Florida	Assistant Professor	Aug. 2005 – Aug. 2011
University of California, Berkeley	Assistant Research Engineer	Feb. 2005 – Jul. 2005
University of California, Berkeley	Postdoctoral Researcher	Jul. 2002 – Jan. 2005
Tsinghua University, Beijing	Lecturer	Aug. 1998 – Sep.1999
The Hong Kong Polytechnic University	Staff Research Assistant	Oct. 1998 – Feb. 1999
CHELBI Engineering Consulting, Beijing, the Louis Berger Group, Inc.	Transportation Consultant	Aug. 1996 – Sept. 1998
Tsinghua University, Beijing	Assistant Lecturer	Aug. 1996 – Jul. 1998

## EDUCATION ACTIVITIES

### 3. TEACHING EVALUATIONS

Graduate Courses (Averages of 12 Classes from Fall 2005 to Present)

Question	Yin's Mean	Dept.'s Mean	College's Mean
1-9. Instructor Evaluation	4.74	4.41	4.32
10. Instructor Overall	4.84	4.47	4.38
11- 27. Additional Questions	4.71	4.37	4.26

Undergraduate Courses (Averages of 5 Classes from Fall 2005 to Present)

Question	Yin's Mean	Dept.'s Mean	College's Mean
1-9. Instructor Evaluation	4.56	4.08	4.05
10. Instructor Overall	4.66	4.12	4.10
11- 27. Additional Questions	4.37	4.06	3.99

### 4. GRADUATE COMMITTEE ACTIVITIES

Faculty Member's Role	Student	Research Topic	Home Dept	Complete Date
<b>Chairs: 10 Ph.D. Committees</b>	Fang He	Integrated pricing of road and power networks coupled by plug-in hybrid electric vehicles	CCE	August 2014
	Mahmood Zangui (co-chaired by Siriphong Lawphongpanich)	Differentiated congestion pricing of transportation networks	CCE	August 2013
	Dimitra Michalaka	Enhancement and evaluation of dynamic pricing strategies of managed toll lanes	CCE	August 2012
	Md Shahid Mamun	Impact analyses of site developments and transportation policies	CCE	August 2012
	Ashish Kulshrestha (co-chaired by Scott Washburn)	Transit-dependent evacuation planning under demand uncertainty	CCE	December 2011
	Ziqi Song	Pareto-improving congestion pricing on transportation networks	CCE	December 2011
	Di Wu	Designing more acceptable and equitable congestion pricing schemes for	CCE	August 2011

		multimodal transportation networks		
	Lihui Zhang	Signal timing optimization for robust and sustainable mobility	CCE	August 2010
	Seokjoo Lee (co-chaired by Ken Courage)	Exploiting the operational and research potential of archived transportation management data	CCE	December 2009
	Yingyan Lou	A hierarchical framework for congestion pricing of transportation networks	CCE	August 2009
<b>Chairs: 12 Masters Committee</b>	Jie Lu	Enhancing CORSIM for simulating managed lane operations	CCE	May 2012
	Ali Hanes	Non-thesis option	CCE	May 2011
	Addisu Bekele	Non-thesis option	CCE	May 2011
	Hari Ramachandran	Non-thesis option	CCE	December 2010
	Vishal Khanapure	Non-thesis option	CCE	August 2010
	Andrew Avent	Non-thesis option	CCE	May 2010
	Harish Manda	Non-thesis option	CCE	May 2010
	Dimitra Michalaka	Dynamic tolling with real-time demand and willingness-to-pay learning	CCE	May 2009
	Di Wu	Non-thesis option		December 2008
	Jinwook Lee	Non-thesis option	CCE	May 2008
	Yingyan Lou	Non-thesis option	CCE	December 2007
	Sricharan Rani	Non-thesis option	CCE	December 2007
<b>Co-Chairs: 1 Masters Committees</b>	Vipul Modi (chaired by Scott Washburn)	A re-examination of the HCM 2000 basic freeway segment capacity values	CCE	December 2009
<b>Member: 11 Ph.D. Committees</b>	Nagendra Dhakar	No topic yet	CCE	2013
	Phillip Haas	No topic yet	CCE	2013
	Roosbeh Nowrouzian	No topic yet	CCE	2013
	Lu Ma	Generating disaggregate population characteristics for input to travel-demand models	CCE	December 2011

	Jing Li	Two-lane highway simulation and analysis	CCE	May 2012
	Grady Carrick	No topic yet	CCE	May 2012
	Cuie Lu	Impacts of incidents on freeway operations	CCE	December 2011
	Xiaoyu Zhu	An analysis of injury-severity of large-truck crashes	CCE	December 2010
	Alexandra Kondyli	Development of a freeway ramp merging model	CCE	August 2009
	Byungkon Ko	Identification of preferred performance measures for the assessment of truck level of service	CCE	May 2007
	Xiao Cui	Travel time estimation on signalized arterial	CCE	December 2006
<b>Member: 12 Masters Committees</b>	Zhuofei Li	No topic yet	CCE	2013
	Evangelos Mintsis	No topic yet	CCE	2011
	Genesis Harrod	No topic yet	URP	2011
	Clark Letter	A framework for simulating variable speed limit algorithms in CORSIM	CCE	May 2011
	Georgios Chrysikopoulos	Freeway travel time estimation as a function of demand	CCE	May 2010
	Irene Soria	Comparison of car following models to field data	CCE	May 2010
	Nagendra Dhakar	Modeling face-to-face and Internet based social activity participation decisions	CCE	August 2009
	Abigail Osei-Asamoah	The impact of left turn bay spillover on through movement discharge at signalized intersections	CCE	May 2009
	Ramakrishna Yennamani	Travel time estimation using demand data	CCE	December 2008
	Abishek Komma	Disaggregate continuous departure time choice models for home to work commute	CCE	August 2008
	Carlos Cruz	Effect of trucks on intersection operations	CCE	August 2007
	Pinky Pakalapati	Non-thesis option	CCE	December 2006

## 5. TEACHING AWARD

Dean's Honor Roll of Teaching, College of Engineering, University of Florida, Spring 2008; Fall 2008 and Spring 2009.

## 6. AWARDS BY ADVISEES

### *Dissertation and Thesis Awards*

1. Yingyan Lou, *2009 Pikarsky Award for Outstanding Ph.D. Dissertation in Science and Technology*, the Council of University Transportation Centers (CUTC).
2. Dimitra Michalaka, *2009 Pikarsky Award for Outstanding M.S. Thesis in Science and Technology*, CUTC.

### *Paper and Presentation Awards*

1. Dimitra Michalaka, *First Place Best Poster Award*, the Transportation and Expressway Authority Membership of Florida (TEAMFL) Meeting, October 2010.
2. Di Wu and Ashish Kulshrestha, *Third Place Best Poster Award*, the TEAMFL Meeting, October 2010.
3. Ziqi Song, *Research in Science Award*, 2010 National Science Foundation Research Day, University of Florida, October 2010.
4. Yingyan Lou, *Second Place in Student Paper Competition*, 2nd International Symposium on Freeway and Tollway Operations, Honolulu, Hawaii, June 2009.
5. Ziqi Song, *Best Poster Award*, 3<sup>rd</sup> CMS Annual Student Conference, Gainesville, FL, March, 2010.
6. Di Wu, *Best Presentation Award*, 2<sup>nd</sup> CMS Annual Student Conference, Gainesville, FL, March 2009
7. Ashish Kulshrestha, *Second Place Best Poster Award*, TRANSPO, Orlando, FL, September 2008
8. Yingyan Lou, *Best Student Poster Award*, the ITE District 10 Annual Meeting, Orlando, FL, November 2007.

### *Other Recognitions*

1. Dimitra Michalaka, *the Alec Courtelis Award*, International Center, University of Florida, November 2011.
2. Dimitra Michalaka, *the Future Industry Spotlight Award*, American Road & Transportation Builders Association, September 2011.
3. Dimitra Michalaka, *Gator of Engineering Attribute Graduate Student Award for Leadership*, College of Engineering, University of Florida, June 2011.
4. Ziqi Song, *First Place of Anne Brewer Scholarship*, The Intelligent Transportation Society of Florida, December 2010.
5. Dimitra Michalaka, *the Frankee Hellinger Graduate Scholarship*, the Central Florida Chapter of the Women's Transportation Seminar, December 2010.

6. Yingyan Lou, *the Frankee Hellinger Graduate Scholarship*, the Central Florida Chapter of the Women's Transportation Seminar, December 2008.
7. Yingyan Lou, Outstanding International Student Award, College of Engineering, University of Florida, November 2008.
8. Yingyan Lou, Outstanding International Student Award, College of Engineering, University of Florida, November 2007.

## **7. GRADUATED PHDS**

1. Dr. Yingyan Lou (August 2009), Assistant Professor, University of Alabama, Tuscaloosa, AL.
2. Dr. Seokjoo Lee (December 2009), Research Associate, Center for Korea Transport Database, Korea Transport Institute, Seoul.
3. Dr. Lihui Zhang (August 2010), Assistant Professor, Dalian University of Technology, China.
4. Dr. Di Wu (August 2011), Operations Research Scientist, Amazon, Seattle, WA.

## RESEARCH ACTIVITIES

### 8. RESEARCH INTERESTS

Transportation Network Modeling  
 Highway Traffic Operations  
 Transit Planning and Operations  
 Infrastructure Asset Management  
 Assessments and Evaluations of Intelligent Transportation Systems Technologies

### 9. PUBLICATIONS

#### Books, Edited

1. Yin, Y., Wang, Y., Lu, J. and Wang, W. (2011) *Towards Sustainable Transportation Systems*, American Society of Civil Engineers.

#### Books, Contributor of Chapter(s)

1. Lam, W.H.K. and Yin, Y. Chapter 7: genetic algorithm-based approach for transportation optimization problem. In *The Practical Handbook of Genetic Algorithm Applications* (Chambers, L. eds.), Chapman & Hall/CRC, Florida, December 2000.

#### Refereed Publications<sup>1</sup>

##### Refereed journal articles

1. Wu, D.\*, Yin, Y. and Lawphongpanich, S. Optimal selection of build-operate-transfer projects on transportation networks. *Transportation Research Part B*, July 2011. DOI: 10.1016/j.trb.2011.07.006
2. Kulshrestha, A.\*, Wu, D.\*, Lou, Y.\* and Yin, Y. A robust approach to shelter location for evacuation planning with demand uncertainty. *Journal of Transportation Safety and Security* (accepted), August 2011.
3. Mamun, S.\*, Xu, H\*\* and Yin, Y. On the select zone analysis for traffic impact studies. *Transportation Research Record* (accepted), April 2011.
4. Lawphongpanich S. and Yin, Y. Nonlinear pricing on transportation networks. *Transportation Research Part C*, 20, 218-235, February 2012.
5. Xu, H\*\*, Lou, Y.\*, Yin, Y. and Zhou, J. A prospect-based user equilibrium model with endogenous reference points. *Transportation Research Part B*, 45, 311-328, February 2011.

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<sup>1</sup>\* indicates student supervised by Yin

\*\* indicates visiting student or scholar hosted by Yin

6. Wu, D.\*, Yin, Y. and Lawphongpanich, S. Pareto-improving congestion pricing on multimodal transportation networks. *European Journal of Operational Research*, 210, 660-669, May 2011.
7. Li, M., Yin, Y., Zhang, W-B, Zhou, K. and Nakamura, H. Modeling and implementation of adaptive transit signal priority on actuated control systems. *Computer-Aided Civil and Infrastructure Engineering*, 26, 270–284, May 2011.
8. Lou, Y.\*, Yin, Y. and Lawphongpanich, S. Freeway service patrol deployment planning for incident management and congestion mitigation. *Transportation Research Part C*, 19, 283-295, April 2011.
9. Wu, D.\*, Yin, Y. and Yang, H. The independence of volume-capacity ratio of private toll roads in general networks. *Transportation Research Part B*, 45, 96-101, January 2011.
10. Lou, Y.\*, Yin, Y. and Laval, J. Optimal dynamic pricing strategies for high-occupancy/toll lanes. *Transportation Research Part C*, 19, 64-74, February 2011.
11. Yao, T, Friesz, T., Wei, M. and Yin, Y. Congestion derivatives for a traffic bottleneck. *Transportation Research Part B*, 44, 1149–1165, December 2010.
12. Kulshrestha, A.\*, Osei-Asamoah, A., Washburn, S. and Yin, Y. Impact of left-turn spillover on through movement discharge at signalized intersections. *Transportation Research Record*, 2173, 80-88, December 2010.
13. Lou, Y.\* and Yin, Y. A decomposition scheme for estimating dynamic origin–destination flows on actuation-controlled signalized arterials. *Transportation Research Part C*, 18, 643-655, October 2010.
14. Zhang, L.\*, Yin, Y. and Lou, Y.\* Robust signal timing for arterials under day-to-day demand variations. *Transportation Research Record*, 2192, 156-166, December, 2010.
15. Lawphongpanich, S. and Yin, Y. Solving Pareto-improving congestion pricing for general road networks, *Transportation Research Part C*, 18, 234-246, April 2010.
16. Lou, Y.\*, Yin, Y. and Lawphongpanich, S. Robust congestion pricing under boundedly rational user equilibrium. *Transportation Research Part B*, 44, 15-28, January 2010.
17. Yin, Y., Madanat, S. and Lu, X. Robust improvement schemes for road networks under demand uncertainty. *European Journal of Operational Research*, 198, 470-479, October 2009.
18. Yin, Y. and Lawphongpanich, S. Alternative marginal-cost pricing for road networks. *NETNOMICS: Economic Research and Electronic Networking*, 10, 77-83, April 2009.
19. Yin, Y. and Lou, Y.\* Dynamic tolling strategies for managed lanes. *Journal of Transportation Engineering, ASCE*, Vol.135, No.2, 45-52, February 2009.
20. Cai, M.\*\*, Yin, Y. and Xie, M. Prediction of hourly air pollutant concentrations near urban arterials using artificial neural network approach. *Transportation Research Part D*, 14, 32-41, January 2009.
21. Lou, Y.\*, Yin, Y. and Lawphongpanich, S. Robust approach to discrete network designs with demand uncertainty. *Transportation Research Record*, 2090, 86-94, 2009.
22. Song, Z.\*, Yin, Y. and Lawphongpanich, S. Nonnegative Pareto-improving tolls with multiclass network equilibria. *Transportation Research Record*, 2091, 70-78, 2009.
23. Yin, Y. Robust optimal traffic signal timing. *Transportation Research Part B*, 42, 911-924, December 2008.
24. Yin, Y. A scenario-based model for fleet allocation of freeway service patrols. *Networks and Spatial Economics*, 8, 407-417, December 2008.
25. Yin, Y., Lawphongpanich, S. and Lou, Y.\* Estimating investment requirement for maintaining and improving highway systems. *Transportation Research Part C*, 16,

- 199-211, April 2008.
26. Zhang, L.\* and Yin, Y. Robust synchronization of actuated signals on arterials. *Transportation Research Record*, 2080, 111-119, 2008.
  27. Higgins, K., Lawphongpanich, S., Mahoney, J. and Yin, Y. Evaluating airline service quality using data envelopment analysis, *Transportation Research Record*, 2052, 1-8, 2008.
  28. Yin, Y., Li, M. and Skabardonis, A. An offline offset refiner for actuated control signals. *Journal of Transportation Engineering, ASCE*, 133, 423-432, July 2007.
  29. Yin, Y. and Lawphongpanich, S. Estimating highway investment requirements with uncertain demands. *Transportation Research Record*, 1993, 16-22, 2007.
  30. Yang, F., Yin, Y. and Lu, J. A steepest-descent day-to-day dynamic toll. *Transportation Research Record*, 2039, 83-90, 2007.
  31. Yin, Y. Optimal fleet allocation of freeway service patrols. *Networks and Spatial Economics*, 6, 221-234, September 2006.
  32. Yin, Y. and Lawphongpanich, S. Internalizing emission externality on road networks. *Transportation Research Part D*, 11, 292-301, July 2006.
  33. Yin, Y., Miller, M., and Ceder, A. A Framework for deployment planning of bus rapid transit systems. *Transportation Research Record*, 1903, 11-19, 2005.
  34. Yin, Y., Lam, W.H.K. and Mark, A.M. A simulation-based reliability assessment approach for congested transit network. *Journal of Advanced Transportation*, Vol.38, No.1, 27-44, Winter 2004.
  35. Yin, Y., Lam, W.H.K. and Ieda, H. New technology and the modeling of risk-taking behavior in congested road networks, *Transportation Research Part C*, Vol.12, 171-192, June-August 2004.
  36. Yin, Y., and Yang, H. Optimal tolls with a multiclass, bicriteria traffic network equilibrium. *Transportation Research Record*, 1882, 45-52, 2004.
  37. Yin, Y., and Yang, H. Simultaneous determination of the equilibrium market penetration and compliance rate of advanced traveler information systems, *Transportation Research Part A*, Vol.37, No.2, 165-181, February 2003.
  38. Yin, Y. Multi-objective bi-level optimization for transportation planning and management problems, *Journal of Advanced Transportation*, Vol.36, No.1, 93-105, Winter 2002.
  39. Yin, Y., and Ieda, H. An optimal improvement scheme for network reliability, *Transportation Research Record*, 1783, 1-6, 2002.
  40. Yin, Y. and Ieda, H. Assessing travel time reliability of road network considering day-to-day travel variations. *Journal of the Eastern Asia Society for Transportation Studies*, Vol. 4, No.2, 125-137, October 2001.
  41. Yin, Y., and Ieda, H. Assessing performance reliability of road networks under non-recurrent congestion, *Transportation Research Record*, 1771, 148-155, July 2001.
  42. Lam, W.H.K. and Yin, Y. An activity-based time-dependent traffic assignment model, *Transportation Research Part B*, Vol.35, 549-574, July 2001.
  43. Yin, Y. Genetic-algorithm-based approach for bi-level programming models, *Journal of Transportation Engineering, ASCE*, Vol.126, No.2, 115-120, March-April 2000.
  44. Lam, W.H.K, Zhang, Y.P. and Yin, Y. Time-dependent model for departure time and route choices in networks with queues, *Transportation Research Record*, 1667, 33-41, 1999.
  45. Yin, Y. and Lu, H.P. Traffic equilibrium problems with environmental concerns, *Journal of the Eastern Asia Society for Transportation Studies*, Vol.3, No.6, 195-206,

1999.

46. Lu, H.P. and Yin, Y. Towards a sustainable urban traffic situation: traffic congestion and measures in mega-cities, *Journal of the Eastern Asia Society for Transportation Studies*, Vol.2, No.4, 1229-1236, 1997.

### Refereed journal articles in Chinese

1. Yin, Y. and Lu, H. A dynamic network traffic signal setting model, *Journal of Highway and Transportation Research and Development*, Vol.14, No.3, 11-16, 1997 (in Chinese).
2. Lu, H. and Yin, Y. A variational inequality approach for urban traffic network equilibrium analysis, *Journal of Highway and Transportation Research and Development*, Vol.14, No.2, 24-29, 1997 (in Chinese).
3. Lu, H. and Yin, Y. A dynamic system optimum traffic assignment model, *Journal of Highway and Transportation Research and Development*, Vol.13, No.4, 12-19, 1996 (in Chinese).
4. Lu, H., Shi, Q. and Yin, Y. Dynamic traffic assignment - review and prospect, *Journal of Highway and Transportation Research and Development*, Vol.13, No.2, 34-43, 1996 (in Chinese).
5. Lu, H. and Yin, Y. Disaggregate modeling and its application in transportation planning, *Journal of Highway and Transportation Research and Development*, Vol.13, No.1, 22-28, 1996 (in Chinese).
6. Lu, H., Shi, Q. and Yin, Y. The basic idea and method of traffic impacts analysis, *City Planning Review*, Vol.20, No.4, 34-38, 1996 (in Chinese).
7. Lu, H. and Yin, Y. A traffic equilibrium assignment model and its application, *Journal of Highway and Transportation Research and Development*, Vol.12, No.4, 18-23, 1995 (in Chinese).
8. Lu, H. and Yin, Y. Technical prospects for counter-measures to urban traffic congestion, *City Planning Review*, Vol.19, No.4, 44-46, 1995 (in Chinese).

### Refereed conference papers

#### *ISTTT series*

1. Lawphongpanich S. and Yin, Y. Nonlinear pricing on transportation networks. *Proceedings of 19<sup>th</sup> International Symposium on Transportation and Traffic Theory* (M.J. Cassidy and A. Skabardonis, eds), Elsevier, 292-315, July 2011.
2. Zhang, L.\*, Lawphongpanich, S. and Yin, Y. An active-set algorithm for discrete network design problems. *Proceedings of 18th International Symposium on Transportation and Traffic Theory* (W.H.K. Lam, S.C. Wong and H.K. Lo eds), Springer, 283-300, July 2009.
3. Yin, Y. and Lawphongpanich, S. A robust approach to the continuous network design problem with demand uncertainty. *Proceedings of 17th International Symposium on Transportation and Traffic Theory* (R.E. Allsop, M.G.H. Bell and B.G. Heydecker eds), Elsevier, 111-126, July 2007.
4. Yin, Y., Lam, W.H.K. and Ieda, H. Modeling risk-taking behavior in queuing networks with advanced traveler information systems, *Proceedings of 15th International Symposium on Transportation and Traffic Theory* (M.A.P. Taylor eds.), Pergamon, 309-328, July 2002.

***Other conference papers***

1. Wu, D.\*, Kulshrestha, A.\*, Yin, Y., Tillander, T. and Plass, M. Impacts Of dynamic pricing on managed lane operations. *90th Transportation Research Board Annual Meeting*, Washington, DC. Paper No. 11-1772, January 2011.
2. Manda, H.\*, Song, Z.\*, Yin, Y. and Wang, Y. Comparison of capacities of high-occupancy-vehicle and general purpose lanes. *90th Transportation Research Board Annual Meeting*, Washington, DC. Paper No. 11-1476, January 2011.
3. Mamun, S.\*, Yin, Y., Srinivasan, S. and Corkery, T. Comparison of traffic impact analysis methods for proposed developments. *90th Transportation Research Board Annual Meeting*, Washington, DC. Paper No. 11-1403, January 2011.
4. Song, Z. \*, Yin, Y., and Srinivasan, S. Modeling diversion propensity at work zones *Proceedings of the 11th International Chinese Conference of Transportation Professionals*, August 14-17, 2011, Nanjing, China, American Society of Civil Engineers, 3997-4012.
5. Yin, Y. and Lou, Y.\* Robust optimization approach for transportation network design under demand uncertainty. *Proceedings of 9<sup>th</sup> International Conference of Chinese Transportation Professionals, Harbin, China*, American Society of Civil Engineers, August 2010
6. Wu, D.\*, Yin, Y. and Lawphongpanich, S. Pareto-improving strategies for multimodal transportation networks with trip chaining. *Compendium of Papers DVD for 89<sup>th</sup> Transportation Research Board Annual Meeting, Washington D.C.*, Transportation Research Board, January 2010.
7. Lou, Y.\* and Yin, Y. Real-time estimation of origin-destination flows for actuation-controlled intersections. *Proceedings of the 9th IEEE International Conference on Intelligent Transportation Systems*, 827-832, September 2006.
8. Yin, Y. Determining reliability importance of links in road networks. *Proceedings of International Conference of Traffic and Transportation Studies*, 415-424, Science Press, August 2006.
9. Yin, Y., Liu, H. and Benouar, H. A note on equity of ramp metering. *Proceedings of the 7th IEEE International Conference on Intelligent Transportation Systems*, 497-502, October 2004.
10. Yin, Y., Miller, M., Shladover, S. Assessment of the applicability of cooperative vehicle-highway automation systems to freight movement. *TRB 83rd Annual Meeting Compendium of Papers CD-ROM*, Paper No. 04-4755, USA, January 2004.
11. Yin, Y., Lam, W.H.K. and Ieda, H. Reliability assessment on transit network services. *The Network Reliability of Transport, Proceedings of 1<sup>st</sup> International Symposium on Transportation Network Reliability* (M.G.H. Bell and Y. Iida, eds.), Pergamon, 119-132, August 2003.
12. Ieda, H., Kimura, A. and Yin, Y. Why don't multi-carrier joint delivery services in urban areas become popular? A gaming simulation of carrier's behavior, *City Logistics II* (Taniguchi, E. and Thompson R.G., eds.), Institute for city logistics, 155-167, 2001.
13. Yin, Y. and Ieda, H. Does providing information to drivers improve road network reliability? *Proceedings of 9<sup>th</sup> World Conference of Transportation Research (CD-ROM)*, Seoul, Korea, July 2001.
14. Yin, Y. On the application of road pricing to traffic emission control. *Preprint of 80<sup>th</sup> Annual Conference of Transportation Research Board*, Paper No. 01-2026, USA,

January 2001.

15. Lu, H.P. and Yin, Y. Study on dynamic system optimum traffic assignment, *Proceedings of the Conference on Traffic and Transportation Studies, ASCE*, 436-448, Beijing, China, August 1998.

## Non-refereed Publications

### Non-refereed conference papers

1. Lawphongpanich, S. and Yin, Y. Finding dominating flow distributions via manifold suboptimization. *2008 National Science Foundation (NSF) Civil, Mechanical and Manufacturing Innovation (CMMI) Engineering Research and Innovation Conference (CD-ROM)*, Knoxville, TN, January 2008.
2. Yin, Y., Lam, W.H.K. and Mark, A.M. A simulation-based reliability assessment approach for congested transit network. *Workshop Proceedings of Advanced Modeling for Transit Operations and Service Planning*, The Hong Kong Polytechnic University, Hong Kong, D2, 1-10, December 2002.
3. Yin, Y., Ieda, H. and Terabe, S. Is road pricing useful to traffic emission control? *Proceedings of the Third International Summer Symposium, JSCE*, Tokyo, Japan, 285-288, August 2001.
4. Yin, Y. and Ieda, H. Network equilibrium model considering route-choice behaviors of commuters under uncertainty. *Proceedings of 55<sup>th</sup> JSCE Annual Conference (CD-ROM)*, Japan, September 2000.
5. Yin, Y. and Lam, W.H.K. Modeling commuters' activity/travel behaviors in morning peak period, paper presented at *International Federation of Operational Research Societies Conference*, Beijing, China, August 1999.
6. Yin, Y. and Lu, H.P. (1996) A dynamic network traffic signal settings model, *Proceedings of the Third World Congress on ITS (CD-ROM)*, Orlando, USA, October 1996.
7. Lu, H.P., Shi, Q.X. and Yin, Y. Influence of bicycle traffic on traffic signal control system, *Proceedings of the Second World Congress on ITS*, Yokohama, Japan, November 1995.

### Research Reports

1. Lou, Y.\*, Yin, Y. and Lawphongpanich, S. *Robust Congestion Pricing under Boundedly Rational Travel Behavior*. Final Report to the Center for Multimodal Solutions for Congestion Mitigation, University of Florida, Project Number 2009-012, December 2010
2. Mamun, M.S.\*, Yin, Y. and Srinivasan, S. *Trip Generation Characteristics of Special Generators*. Final Report to Florida Department of Transportation, FDOT Contract BDK77, TWO 977-01, March 2010..
3. Washburn, S., Yin, Y., Vipul, M.\* and Kulshrestha, A.\* *Investigation of Freeway Capacity: a) Effect of Auxiliary Lanes on Freeway Segment Volume Throughput, and b) Freeway Segment Capacity Estimation for Florida Freeways*. Final Report to Florida Department of Transportation, FDOT Contract BDK77, TWO 977-08, March 2010.
4. Zhang, L.\*, Yin, Y. and Washburn, S. *Simulation-Based Robust Optimization for Signal Timing and Setting*. Final Report to the Center for Multimodal Solutions for Congestion Mitigation, University of Florida, Project Number 2008-003, December 2009.
5. Li, M., Zhang, L., Song, M.K., Wu, G., Zhang, W-B, Zhang, L.\* and Yin, Y. *Improving Performance of Coordinated Signal Control Systems Using Signal and Loop Data*. Final Report to California Department of Transportation, TO 6332, September 2009

6. Lou, Y.\* and Yin, Y. *Optimal Deployment Strategies of Freeway Service Patrols for Incident Management*. Final Report to Southern Transportation Research Center, University of Tennessee, STC Project Number 07-UF-R-S2, August 2008
7. Herrera, J.C., Amin, S., Bayen, A., Madanat, S., Zhang, M., Nie, Y., Qian, Z., Lou, Y.\* and Yin, Y. *Dynamic Estimation of OD Matrices for Freeways and Arterials*, California PATH Research Report, UCB-ITS-PRR-2007, November 2007.
8. Yin, Y., Srinivasan, S., Komma, A. and Zhang, L.\* *Development of Time-of-Day Modeling Procedures Using FSUTMS Powered by Cube Voyager*. Transportation Research Center, the University of Florida, August 2007.
9. Yin, Y., Liu, H., Laval, J.A., Lu, X-Y., Li, M., Pilachowski, J. and Zhang, W.B. *Development of an Integrated Microscopic Traffic Simulation and Signal Timing Optimization Tool*. University of California, Berkeley: Institute of Transportation Studies, California PATH Program, PATH Research Report UCB-ITS-PRR-2006, September 2006.
10. Yin, Y. and Samer, M. *Developing Optimal Planning and Management Strategies for a Robust Highway System*. University of California, Berkeley: Institute of Transportation Studies, California PATH Program, PATH Research Report UCB-ITS-PRR-2005-35, August 2005.
11. Zhou, K., Li, M., Yin, Y., Tan, C.W., Lu, H., Park, S., Miller, M., Zhang, W-B, Skabardonis, A., etc. *Development of Adaptive transit Signal priority Systems*, University of California, Berkeley: Institute of Transportation Studies, California PATH Program, PATH Research Report UCB-ITS-PRR-2004, August 2004.
12. Miller, M., Yin, Y., Balvanyos, T. and Ceder, A. *Framework for Bus Rapid Transit Development and Deployment Planning*, University of California, Berkeley: Institute of Transportation Studies, California PATH Program, PATH Research Report UCB-ITS-PRR-2004-47, August 2004.
13. Steve, S., Miller, M., Yin, Y., Balvanyos, T., Bernheim, L., Fishman, S.R., etc. *Assessment of the Applicability of Cooperative Vehicle-Highway Automation Systems to Bus Transit and Intermodal Freight: Case Study Feasibility Analyses in the Metropolitan Chicago Region*, University of California, Berkeley: Institute of Transportation Studies, California PATH Program, PATH Research Report UCB-ITS-PRR-2004-26, August 2004.

**10. CONTRACTS AND GRANTS****Summary of External Grant Funding Received by Yin, 2005- present**

<b>ROLE</b>	<b>TOTAL</b>	<b>Direct Cost</b>	<b>Indirect Cost</b>	<b>Yin's Funding Portion</b>
<b>Principal Investigator</b>	<b>\$1,492,601</b>	<b>\$1,272,993</b>	<b>\$219,608</b>	<b>\$756,830</b>
<b>Co-Principal Investigator</b>	<b>\$1,794,668</b>	<b>\$1,422,104</b>	<b>\$372,564</b>	<b>\$787,786</b>
<b>Totals</b>	<b>\$3,287,269</b>	<b>\$2,695,097</b>	<b>\$592,172</b>	<b>\$1,544,616</b>

**Summary of Internal Grant Received by Yin, 2005- present**

<b>ROLE</b>	<b>TOTAL</b>	<b>Yin's Funding Portion</b>
<b>Principal Investigator</b>	<b>0</b>	<b>0</b>
<b>Co-Principal Investigator</b>	<b>\$82,532</b>	<b>\$20,000</b>
<b>Totals</b>	<b>\$82,532</b>	<b>\$20,000</b>

## SERVICE ACTIVITIES

### 11. UNIVERSITY GOVERNANCE AND SERVICE

- College Graduate Program Strategic Planning Committee, August 2011–Present
- Director Search Committee for Engineering School of Substantiality and the Environment, 2010–2011
- CCE Transportation Group Student Recruiting Coordinator, 2009–Present
- Department Fellowship Committee, 2007–Present
- Faculty Advisor for Institute of Transportation Engineers UF Student Chapter, 2007–2008
- Curriculum Subcommittee to CCE Advisory Committee, 2007
- CCE Transportation Group Seminar Coordinator, 2006–2007

### 12. EDITOR OF A SCHOLARLY JOURNAL, SERVICE ON AN EDITORIAL ADVISORY BOARD OR REVIEWER FOR A SCHOLARLY JOURNAL

#### Editor

1. Associate Editor, *Journal of Advanced Transportation*, May 2011–Present
2. Member of Editorial Advisory Board, *International Journal of Sustainable Transportation*, August 2011– Present
3. Member of Editorial Advisory Board, , *Transportation Research Part C*, June 2011–Present,
4. Member of Editorial Advisory Board, *ASCE Journal of Infrastructure Systems*, 2010–Present
5. Area Editor, *Journal of Transportation Safety and Security*, 2008–Present
6. Member of Editorial Advisory Board, *Journal of Advanced Transportation*, 2008–2011
7. Area Editor, *Proceedings of 10<sup>th</sup> International Conference of Chinese Transportation Professionals*, Beijing, August 2010, American Society of Civil Engineers
8. Area Editor, *Proceedings of 9<sup>th</sup> International Conference of Chinese Transportation Professionals*, Harbin, August 2009, American Society of Civil Engineers
9. Associate Editor, *Proceedings of the 12th IEEE International Conference on Intelligent Transportation Systems*, St. Louis, Missouri, October 2009
10. Associate Editor, *Proceedings of the 11th IEEE International Conference on Intelligent Transportation Systems*, Beijing, September 2008
11. Associate Editor, *Proceedings of the 10th IEEE International Conference on Intelligent Transportation Systems*, Seattle, WA, September 2007
12. Associate Editor, *Proceedings of the 9th IEEE International Conference on Intelligent Transportation Systems*, Toronto, Canada, September 2006

#### Reviewer for Scholarly Journals

*Journal of Transportation Research Board (TRB Annual Meetings), Transportation Research Part B, Transportation, Networks and Spatial Economics, IEEE Transaction of Intelligent Transportation Systems, Transportmetrica, Journal of Intelligent Transportation Systems, ASCE Journal of Transportation Engineering, Computer Aided Civil and Infrastructure Engineering.*

**13. PROFESSIONAL COMMITTEE MEMBERSHIP**

<b>Organization</b>	<b>Committee</b>	<b>Status</b>	<b>Dates</b>
Chinese Overseas Transportation Association	Academic Affairs Committee	Chair	2010-Present
Transportation Research Board	ADB30: Transportation Network Modeling Committee	Member	2009-Present
The Florida Model Task Force	Transit and Rail Committee	Member	2009-Present
The Florida Model Task Force	Toll Modeling Subcommittee	Member	2009-Present
American Society of Civil Engineers	Transportation and Development Institute's Advanced Technology Committee	Member	2008-Present
North America Chinese Overseas Transportation Association	Board of Directors	Member	2008-Present
Institute of Transportation Engineers	Intelligent Traffic Signal Operations Committee	Member	2005-Present