

Junghwa Jane KIM

Ph.D. Professor



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Junghwa Kim is an Assistant professor at Kyonggi University and worked as an associate research fellow at the Korea Research Institute of Human Settlement (KRIHS) in Korea. She completed her Ph.D. in urban management at Kyoto University in 2013.

Her current research interests include planning for smart mobility, as well as social and psychological approaches to improving the effectiveness of transport systems.

Junghwa specializes in measuring the service quality of public transport systems from a psychological perspective, exploring the correlation between travelers' psychological aspects and their travel behavior.

RESEARCH INTERESTS

TRANSPORTATION PLANNING, Travel Behavior Analysis, Travel Demand Forecasting, Future Mobility Systems, Sustainable Transportation

WORK EXPERIENCE

January/2020 - Present
(Suwon KOREA)

Assistant Professor, Urban Planning & Transportation Engineering, Kyonggi University

January/2019 - August/2020
(Sejong KOREA)

Research Associate, National Infrastructure Research Division, The Korea Research Institute for Human Settlements (KRIHS),

December/2014 – July/2017
(Suwon KOREA)

Research Professor, TOD-based Engineering Research Center, Ajou University

September/2012 – November/2012
(Gothenburg, SWEDEN)

Visiting Graduate Researcher, Department of Psychology, University of Gothenburg

April/2009 – May/2010
(Anyang KOREA)

Researcher, National Infrastructure & GIS Research Division, The Korea Research Institute for Human Settlements (KRIHS)

EDUCATION

2013

Ph.D., Urban Management, Kyoto University (Japan), April 2011-November 2013
Dissertation: Strategies for Increasing the Acceptability of Sustainable Transport Policies

2009

M.S., Civil and Transportation Engineering, Ajou University (South Korea), August 2007 - August 2009
Thesis: A Highway Investment Priority Evaluation using Multicriteria Decision Making Method of PROMETEE

2007

B.S., Civil, Environmental, and Transportation Engineering, Ajou University (South Korea), March 2004-August 2007

REFERENCES

Satoshi FUJII

Kyoto University | Professor
Urban Management
fujii@trans.kuciv.kyoto-u.ac.jp

Tommy GARLING

University of Gothenburg | Endowed Professor
Department of Psychology
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Keechoo CHOI

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Varsolo SUNIO

University of Asia and the Pacific | Lecturer
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Jan-Dirk SCHMOCKER

Kyoto University | Associate Professor
Urban Management
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SELECTED JOURNAL PUBLICATIONS

- 1) **Junghwa Kim**, Backjin Lee, Satoshi Fujii (2011) Effect of Trip Purpose on Psychological Process for Car Use Reduction. *Journal of the Eastern Asia Society for Transportation Studies*, 9, pp.169-180.
- 2) **Junghwa Kim**, Jan-Dirk Schmöcker, Satoshi Fujii (2012) Influence of Arrogance on Acceptance of TDM Policy. *Journal of Human Environmental Studies*, 10(2), pp.71-77.
- 3) **Junghwa Kim**, Jan-Dirk Schmöcker, Satoshi Fujii, Robert B. Noland (2013) Attitudes towards Road Pricing and Environmental Taxation among US and UK Students. *Transportation Research Part A: Policy and Practice*, 48(1), pp.50-62.
- 4) **Junghwa Kim**, Satoshi Fujii, Backjin Lee (2013) Strategies to Promote Sustainable Transportation Policy Incorporating Heterogeneity. *International Journal of Sustainable Transportation*, 7(2), pp.107-124.
- 5) **Junghwa Kim**, Jan-Dirk Schmöcker, Cecilia J. Bergstad, Satoshi Fujii, Tommy Gärling (2014) The Influence of Personality on Acceptability of Sustainable Transport Policy, *Transportation* (springer), 41, pp.855–872.
- 6) **Junghwa Kim**, Jan-Dirk Schmöcker, Satoshi Fujii (2016) Exploring the Relationship Between Undergraduate Education and Sustainable Transport Attitudes. *International Journal of Sustainable Transportation*, 10(4), pp.385-392.
- 7) **Junghwa Kim**, Keechoo Choi, Sukhee Kim, and Satoshi Fujii (2017) How to promote sustainable public bike system from a psychological perspective? *International Journal of Sustainable Transportation*, 11(4), pp.272-281.
- 8) **Junghwa Kim**, Jeong Whon Yu, Jung Yoon Choi, Jan-Dirk Schmöcker (2018) Service Quality Evaluation for Urban Rail Transfer Facilities with Rasch Analysis. *Travel Behaviour and Society*.
- 9) Varsolo Sunio, Jan-Dirk Schmöcker, **Junghwa Kim** (2018) Understanding the stages and pathways of travel behavior change induced by technology-based intervention among university students, *Transportation Research Part F: Traffic Psychology and Behaviour*, 59, pp.98-114.
- 10) **Junghwa Kim**, Yeun-Touh Li, Jan-Dirk Schmöcker (2019) Regional Heterogeneity in Taiwan HSR Demand Developments, *Journal of European Planning Studies*, 27, pp.555-573.
- 11) **Junghwa Kim**, Hideki S. Tanaka, Li, Jan-Dirk Schmöcker (2020) Joint car ownership and car type preference model considering engagement in online activities and environmental concern. *Transportation Research Part F: Traffic Psychology and Behaviour*, 68, pp.293–305
- 12) **Junghwa Kim**, Jan-Dirk Schmöcker, Toshiyuki Nakamura, Nobuhiro Uno, Takenori Iwamoto, (2020) Integrated impacts of public transport travel and travel satisfaction on quality of life of older people. *Transportation Research Part A: Policy and Practice*, 138, pp.15-27
- 13) Younghoon Seo, Donghyun Lim, Woongbee Son, Yeongmin Kwon, **Junghwa Kim**, Hyungjoo Kim, (2020) Deriving Mobility Service Policy Issues Based on Text Mining: A Case Study of Gyeonggi Province in South Korea, *Sustainability*, 12(24), 10482; <https://doi.org/10.3390/su122410482>
- 14) S, Kim., H, Lim., **Junghwa Kim*** (2021) Exploring Countermeasures from a Psychological Perspective to Create a Safe Driving Environment for Personal Mobility Devices, *Sustainability*, 13(10), 5450; <https://doi.org/10.3390/su13105450>
- 15) **Junghwa Kim***(2021) Identifying the Impact of Highway Accessibility on Manufacturing Firm Location in Korea, *KSCE Journal of Civil Engineering*, 25, pp.3523-3532.
- 16) K. Lee., W. Kim., J. Baek., **Junghwa Kim*** (2021) A Comparison into the Factors Affecting Urban Rail Systems: Local, Express, and High-Speed Rail in Tunnels at a Great Depth in a Metropolitan Area. *Sustainability*, 13(17), 9527; <https://doi.org/10.3390/su13179527>

SELECTED JOURNAL PUBLICATIONS

- 17) S.H. Kim., Y. Yi., C. R. Kim., **Junghwa Kim*** (under review) Will the shift to sustainable mobility paradigm make people use less vehicles? Empirical evidence from car-free day project in South Korea. *Case Studies on Transport Policy*.
- 18) **Junghwa Kim***, S. Lee., K. Kim., H. Kim (under review) Psychological anxiety impacts on mode choice behavior during the initial period of the COVID-19 crisis, *Journal of Public Transportation*
- 19) Y. Seo, D. Lim, **Junghwa Kim**, D. Kim, H. Kim (2022) Strategy for Introducing Autonomous Driving Mobility Service in Transportation Vulnerable Areas: A Case Study of Gyeonggi Province in Republic of Korea. *KSCE Journal of Civil Engineering*, 26, pp. 4793–4804. [10.1007/s12205-022-0248-5](https://doi.org/10.1007/s12205-022-0248-5)
- 20) Chae, O., **Junghwa Kim***, J.A. Jang, H., Yun., S., Lee (2022) Development of Risk-Situation Scenario for Autonomous Vehicles on Expressway Using Topic Modeling. *Journal of Advanced Transportation*, 6880310, pp.1-19.
- 21) Ko, E., Y. Kwon., W.Son, **Junghwa Kim**, H. Kim. (2022) Factors Influencing Intention to Use Mobility as a Service: Case Study of Gyeonggi Province, Korea. *Sustainability* 14(1), 218; <https://doi.org/10.3390/su14010218>
- 22) Ryu, H., C., Kim., **Junghwa Kim***, S. Lee., J. Lee. (2022) Understanding the road rage behavior and implications: A textual approach using legal cases in Korea. *Transportation Research Interdisciplinary Perspectives*. 16, 100712, [tps://doi.org/10.1016/j.trip.2022.100712](https://doi.org/10.1016/j.trip.2022.100712)
- 23) W. Kim, **Junghwa Kim***, J.A. Jang, S. Kim (2023) Do Perceptions of Hydrogen Energy Effect on Vehicle Preference? A Learning-Based Model Approach, *KSCE Journal of Civil Engineering*, 27, pp.805–813. <https://doi.org/10.1007/s12205-022-0227-x>.
- 24) M. Kim., J. Moon., **Junghwa Kim***(2023) Analysis of Korean Road Traffic Regulations to Establish Legal Layer for Evaluating Safety of Autonomous Driving. *KSCE Journal of Civil Engineering*, 27, pp.313–

AWARDS

Junghwa Kim, ‘(The Outstanding Policy Contribution Award)’, Study title: Study on the Road Network System of Provincial Cities, Korea Research Institute of Human Settlement, September 2013.

Junghwa Kim, Be elected ‘(Young Researcher of Women Scientists)’, Study title: Psychometric Analysis for the Transit Mall Evaluation, Korea Research Foundation, November 2014.

Junghwa Kim, Be elected ‘(JSPS 外国人特別研究員)’, Study title: Public Transport Service Evaluation and Optimization for a Super-aged Society using IC Card Data, Japan Society for the Promotion of Science, July 2016.

Junghwa Kim, “Award for Outstanding Paper (KSCE Journal of Civil Engineering)” Identifying the Impact of Highway Accessibility on Manufacturing Firm Location in Korea, January 2023

CURRENT RESEARCH PROJECTS

(Apr. 2021) A Study on the Promotion of Personal Mobility in Seongnam city, ordered by Seongnam City

(Apr. 2022) Development of Safety Driving Assistance System for Older Drivers, ordered by Ministry of the Interior and Safety(MOIS)(1th~2th)

(Jan. 2022) Test/Evaluation based on Traffic Accident dig data Scenario development for Fallback, ordered by Electronics and Telecommunications Research Institute(ETRI)(1th~2th)

(Apr. 2021) Development of technology to verify the effectiveness of service scenarios in response to laws and regulations related to autonomous driving (IITP) (1th~3th)

(Jun. 2022) A Study on the Improvement of Traffic Impact Assessment System, Ordered by Ministry of Land, Infrastructure and Transport

(Mar.2021) Research on the Development of Indicators for Mega-city region Transportation and Establishment of Minimum Service Standards (Molit) (2th)

(Jan. 2023) Traffic Demand Estimation and Economic Analysis for the Preliminary Feasibility Study of the Daeti 2 Tunnel Road Improvement Project (KDI)

(Apr. 2021) Future Road Design and Testing for Connected and Autonomous Vehicles(K-ICT)(1th~6th)

(Apr. 2020) Researching ways to activate and strengthen enforcement of overloaded vehicles

(Jan.2022)Traffic Demand Estimation and Economic Analysis for the Preliminary Feasibility Study of the Hwangnyeong 3 Tunnel Road Improvement Project

(Sep. 2022) Basic research and survey services for building eco-friendly vehicle charging infrastructure

(Dec. 2022) Demand Estimation and Economic Analysis of Carrier Tunnel Private Investment Project Qualification Study

(Apr. 2023) Research on parking management and public parking lot supply conditions for large cargo vehicles in Namyangju City