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Dr. NI, Jason

Ph.D. (UC Davis), MS. (UC Berkeley); Master of City Planning (UC Berkeley); BS. (National Taiwan University)

Assistant Professor

Dr. Jason Ni is currently visiting Assistant Professor of City University of Hong Kong. Dr. Ni holds dual Master degrees in Transportation Engineering and City Planning from University of California at Berkeley (2003), and a Ph.D. degree in Transportation Technology and Policy from University of California at Davis (2008). Jason is originally from Taiwan. Before his graduate study in the U.S., he obtained a bachelor degree from Department of Civil Engineering of National Taiwan University (1998). Dr. Ni has various professional experiences. He was a lead person of THI Consultants Macau Office and is involved with different projects in Macau, including: Long-range (2010-2020) Comprehensive Transportation Policy Study (Macau Dept. of Transportation/DSAT); Study on Bus Service and Operation Optimization (Macau Dept. of Transportation/DSAT); Policy Study for End-of-Life Vehicle (Macau Dept. of Environmental Protection/DSPA); Transportation Planning for New Land Reclamation Zones (Macau Dept. of City Planning); Study on Tourism Signage/Way-finding Optimization (Macau Dept. of Tourism/DST). Before relocating to Asia, Dr. Ni was a Transportation Planner/Engineer at Parsons Brinckerhoff, USA (2007~2010), and he worked with Metropolitan Transportation Commission (2003), City of San Leandro (2004), and Dowling Associates, Inc. (2005). He also worked as Graduate Student Researcher at University of California Transportation Center (UC Berkeley, 2001 ~ 2003); Institute of Urban and Regional Development (UC Berkeley, 2003), and Institute of Transportation Studies (UC Davis, 2004 ~2007). Jason's expertise includes transportation demand modeling (TransCAD, TP+), traffic impact studies, and traffic operation (Synchro). In terms of research, he did a comparative study of Smart Card ticketing programs between City of Taipei and San Francisco Bay Area. He is also involved in the Hydrogen Pathway Program at UC Davis. His dissertation is about the Motorization and Vehicle Purchase Behavior in China, and so far he has published more than 25 academic reports and journal papers. In terms of contribution on the professional society, Dr. Ni is the leader of Young Professional Group of Road Engineering Association of Asia and Australasia (REAAA). Jason has also served as the President of International Chinese Transportation Professionals Association (ICTPA), Northern California Chapter from 2008 to 2010, and he is still on the Board of ICTPA. In school, Jason has served as President of Berkeley Association of Taiwanese Students (2002, 2003).

Departmental Duty

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Course Leader Duty

[CA5146](#): Quantitative Method and Analysis for Planning

Research Interest

[1] Transportation Planning and Policy [2] Transportation and Energy [3] Sustainable Transportation [4] Transportation Survey Methodology [5] Choice Model and Travel Behavior [6] Integrated Transportation Modeling [7] Cross-regional Transportation and Mega Infrastructure Development



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Research Interests

[1] Transportation Planning and Policy [2] Transportation and Energy [3] Sustainable Transportation [4] Transportation Survey Methodology [5] Choice Model and Travel Behavior [6] Integrated Transportation Modeling [7] Cross-regional Transportation and Mega Infrastructure Development

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Dr. XU, Shiyu 許士昱

Assistant Professor

Course Leader Duty

- [BC4680](#): Analysis and Design of Structural Systems
- [CA4680](#): Analysis and Design of Structural Systems
- [CA5601](#): Building Engineering Systems and Maintenance
- [CA5603](#): Professional Research Methods
- [CA5695](#): Design of Architecture and Structural Systems
- [CA5696](#): Advanced Topics in Structural Design
- [CA5699](#): Programing for Visual Design & Electronic Arts
- [CA8010](#): Structural Dynamics and Applications



Research Interest

Research interests are in the areas of structural/earthquake engineering, nonlinear analysis of RC highway bridges, concrete element modeling, soil-structural interaction, plasticity model for soil, analysis/design of earth retaining structures, computer-aided architectural design, and computer-aided structural analysis and design

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Research Interests

Research interests are in the areas of structural/earthquake engineering, nonlinear analysis of RC highway bridges, concrete element modeling, soil-structural interaction, plasticity model for soil, analysis/design of earth retaining structures, computer-aided architectural design, and computer-aided structural analysis and design

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Dr. CHANG, Zheng

Assistant Professor

Dr. Chang is currently an assistant professor and associate program leader of the real estate management in the City University of Hong Kong. His research focuses on urban economics, real estate, and public finance. Dr. Chang got his doctor degree in urban planning and public policy from Harvard University in 2012. Previously, he received a master degree in urban planning from Harvard, a master in architecture from Tsinghua University, a minor in economics from Peking University and a Bachelor in architecture in Tianjin University. Professionally, he ever worked as a consultant in the CITIC real estate and the World Bank Group, a project manager in Vanke.Co, and an architect in the Beijing Institute of Architecture Design.



Departmental Duty

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Course Leader Duty

- [CA3230](#): Property Valuation and Interest Theory
- [CA5109](#): Real Estate Investment in China
- [CA5217](#): Environmental Economics, Planning and Policy
- [CA5218](#): Financing Urban Development
- [CA6220](#): Urban Economics and Regional Planning
- [CA6223](#): Property Economics
- [CA6234](#): Economics for the Built Environment

Research Interest

Regional Economics, Urban Economics, Real Estate, Local Public Finance

Selected Publications

- [CHANG Z](#) (2014), Financing New Metros- The Beijing Metro Financing Sustainability Study, *Transport Policy*, Mar, 32: 148-155.
- [CHANG Z](#) (2013), Public-private partnerships in China: A case of the Beijing No.4 Metro line, *Transport Policy*, Nov, 30: 153-160. [2013 Impact Factor: 1.718]

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Research Interests

Regional Economics, Urban Economics, Real Estate, Local Public Finance

Dr. CHEN, Jiayu

B.S.(BJTU), M.S.(Columbia University), Ph.D.(Columbia University)

Assistant Professor

Dr. Chen obtained his bachelor degree of Structural Engineering from Beijing Jiao Tong University (2008) and both Master (2010) and Ph.D. degree (2012) in Civil Engineering from Columbia University in the City of New York. He used to work as a research associate in Virginia Tech (2011) and Post Doc researcher in University of Nebraska-Lincoln (2013) before he joined the City University of Hong Kong in August 2013. Dr. Chen dedicates to rethinking and proposing innovative solutions to leverage the efficiency of building construction and energy consumption, to promote environmental friendly and sustainable practices, and to transform engineering education.

Course Leader Duty

- [CA6828](#): Built/Natural Environmental Harmony

Research Interest

Building Energy Efficiency, Sustainable Development, Agent-based Simulation, Network Analysis

Selected Publications

- [LEUNG AYT](#), H.X. Yang and [CHEN J](#) (2014), Parametric bifurcation of a viscoelastic column subject to axial harmonic force and time-delayed control, *Computers and Structures*, 136: 47-55
- [CHEN J](#) and Changbum Ahn (2014), Assessing Occupants' Energy Load Variation through Existing Wireless Network Infrastructure in Commercial and Educational Building, *Energy and Buildings*, [Accepted]
- [CHEN J](#) and Changbum Ahn (2014), Assessing Occupants' Energy-load Variation in Commercial and Educational Buildings: Occupancy Detecting Approach Based upon Existing Wireless Network Infrastructure, *CRC 2014*, ASCE, Atlanta, GA, USA,
- [CHEN J](#), Changbum Ahn and SangUk Han (2014), Detecting the Hazards of Lifting and Carrying in Construction through a Coupled 3D Sensing and IMUs Sensing System, *ICCCBE 2014*, ASCE, Orlando, FL, USA,
- [CHEN J](#) and John E. Taylor (2014), Modeling Retention loss in Project Networks: Untangling the Combined Effect of Skill Decay and Turnover, *ASCE Journal of Management in Engineering*, [10.1061/(ASCE)ME.1943-5479.0000282 , 04014017]
- [CHEN J](#) and John E. Taylor (2013), Layering Residential Peer Networks and Geospatial Building Networks to Modeling Networks to Model Changes Energy Saving Behaviors, *Energy and Buildings*, 58: 151-162.
- [CHEN J](#), Rishree Jain and John E. Taylor (2013), Block Configuration Modeling: A Novel Simulation Model to Emulate Building Occupant Peer Networks and their Impact on Building Energy



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Research Interests

Building Energy Efficiency, Sustainable Development, Agent-based Simulation, Network Analysis


Consumption, *Applied Energy*, 105: 358-368.

- [CHEN J](#), John E. Taylor and His-Hsien Wei (2012), Modeling building occupant network energy consumption decision-making: the interplay between network structure and conservation, *Energy and Buildings*, 47: 515-524.
- [CHEN J](#), John E. Taylor and His-Hsien Wei (2011), Toward a Building Occupant Network Agent-based Model to Simulate Peer-Induced Energy Conservation Behavior, *Winter Simulation Conference*, Phoenix, AZ, USA,
- Zhenghang Lin, Maoshan Qiang and [CHEN J](#) (2010), Classification and Prospects of Chinese International Contractors' Industry Integration, *International Conference on Management and Service Science (MASS 2010)*, Wuhan, China,
- Zhenghang Lin, Maoshan Qiang, [CHEN J](#) and Xinyi Song (2010), Prior services strategy in entry international construction market - a case study of CICI's entry strategy, *International Council for Building (CIB 2010)*, Salford, United Kingdom,
- [CHEN J](#), John E. Taylor and Hakan Unsal (2009), Simulating the effect of learning decay on adaptation performance in project networks, *Winter Simulation Conference (WSC 2009)*, Austin, TX, USA,

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