Jae Ho Chung, Ph.D., LEED AP BD+C

Assistant Professor, Civil Engineering, Saint Martin's University

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EDUCATION

Ph.D. in Civil Engineering, Construction Engineering and Management — August 2015
University of Florida, Gainesville, FL, USA
* Dissertation: Optimizing Financial Structure of Transportation Public-Private Partnership Infrastructure Projects Based on Traffic Revenue Risks: Case Study of US DBFOM Project
* Committee: Ralph Ellis (Chair), Charles Glagola, David Prevatt, Stanislav Uryasev

M.S. in Civil Engineering, Construction Engineering and Management — May 2010
Columbia University, New York, NY, USA

B.E. in Architectural Engineering — February 2005
Kwangwoon University, Seoul, South Korea

TEACHING INTEREST

- Construction Engineering
- Construction Scheduling
- Cost Estimating
- Infrastructure Delivery Method
- Engineering Management
- Engineering Economics
- Engineering Sustainability

RESEARCH INTEREST

- Infrastructure project delivery and alternative delivery (Public-Private Partnerships)
- Asset management in long-term infrastructure projects
- Civil infrastructure life-cycle risk assessment
- Engineering optimization
- Construction Economics
- Feasibility study and decision making in civil infrastructure project
- International Construction Project Management
- Sustainable Infrastructure Development

RESEARCH EXPERIENCE

Doctoral Researcher

Civil Engineering, University of Florida

Optimizing Financial Structure of Transportation Public-Private Partnership Infrastructure Projects Based on Traffic Revenue Risks: Case Study of US DBFOM Project (September 2013- August 2015)

- Developed multi-objective optimization tools for revenue generating transportation PPP projects for lender and investor based on traffic revenue risks
- Optimized equity investment for concessionaire based on traffic revenue forecasting from historical data by using time series methods
- Identified infrastructure investment patterns included TIFIA, PABs, and equity
- Toll Price Sensitivity Analysis

Critical Success Factors in Public-Private Partnerships in Transportation Infrastructure Projects (September 2012- August 2013)

- Identified Critical Success Factors for improved infrastructure development strategies for future PPP implementation
- Found the three most critical success factors based on 36 critical success factor by survey which responses from academia, State DOT, financier, lawyer, politician, construction engineer, concessionaire and project manager

TEACHING EXPERIENCE

Assistant Professor August 2016 - present

Civil Engineering, Saint Martin's University

- Courses for Fall 2016 include
  - GE359: Professional Ethics, Legal Issues and Application
  - MEM610: Systems Engineering Management- Planning
  - MEM612 / MCE612 : Project Management

Teaching Assistant August 2011 – June 2016

Civil Engineering, University of Florida

- Prepared and delivered lectures, quizzes, and exams
- Created homework solutions, held weekly office hours
- Undergraduate Courses
  - CCE4204: Construction Method and Management (Fall 2011, Spring 2012)
  - CGN4010: Civil Engineering Cost Analysis (Fall 2012)
- Graduate Courses
  - CGN6905: Advanced Engineering Cost Estimating (Summer 2014, Summer 2015)
  - CGN6155: Construction Engineering 1 & 2 (Spring 2014, Fall 2014)
  - CGN6905: Civil Engineering Operation (Spring 2015)
  - CGN6905: Civil Engineering System (Spring 2013)
  - CGN6150: Engineering Project Management (Summer 2014, Summer 2015)
  - CGN6905: International Construction Engineering (Fall 2012, Fall 2013)
  - CGN6905: Sustainability of Civil Infrastructure (Spring 2013)

Academic Tutor Summer 2014
University Athletic Association, University of Florida
- Personal tutoring football player
- CGN6150: Engineering Project Management

Lecturer Spring 2011
Architectural Engineering, University of Suwon, Suwon, South Korea
- Building Material Science (68 Sophomores)

Civil Engineering, Joongbu University, Keumsan, S. Korea
- Geo-technical Engineering (49 Juniors)

Architectural Engineering, Dongseo University, Busan, S.Korea
- Construction Engineering and Management (32 Seniors)

NON-ACADEMIC EXPERIENCE

Scheduling Officer (1st Lieutenant), Korea Army March 2006- June 2007
- Planned, scheduled, and managed battalion manpower (400 soldiers), equipment, and projects
- Controlled and monitored project status, prepared project control and forecasting report

Land Surveying Team Leader (2nd Lieutenant), Korea Army March 2005- February 2006
- Conducted land surveying, construction sites surveying, and as-built facilities surveying
- Managed and renewed military map and transferred to G.I.S.

PUBLICATIONS

1. **Chung, J.**, Agdas, D., & Ellis, R. (2016). "Critical success factors in public-private partnerships in US transportation projects." Australasian Journal of Construction Economics and Buildings (Submitted)

2. **Chung, J.** & Agdas, D. (2016). "Optimizing financial structure of transportation public-private partnership infrastructure projects based on traffic revenue risks: A case study of the US DBFOM projects." (In progress).

HONORS & AWARDS

LEED AP BD+C (Credential ID: 11069223-AP-BD+C)
Graduate Assistantship, University of Florida, 2011-2015
University Scholarship with the highest GPA achievement, Kwangwoon University, 2002-2004