

# HOGUN PARK

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## Education

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### Michigan State University (MSU)

Ph.D. in Urban and Regional Planning (Expected June 2018)

East Lansing, USA

School of Planning, Design, and Construction

Aug.2014 – Present

Graduate Certificate in Environmental and Social System Modeling

Doctoral Specialization in Environmental Science and Policy

Dissertation: *Urban transformation in transitional economies: Lessons from the Mongolian plateau*

**National Socio-Environmental Synthesis Center (SESYNC)** Graduate Research Fellow

Mar.2016 - Present

### Seoul National University

Seoul, Korea

MS in Urban and Regional Planning, Graduate School of Environmental studies (GSES)

Sep.2011 - Feb.2014

*The best master thesis awardee*

### Handong Global University

BS in both Urban Planning and Construction Engineering,

Pohang, Korea

Department of Spatial Environment System Engineering

Feb.2005 - Aug.2011

## Professional Experience

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### Korea International Cooperation Agency (KOICA)

Saquisili, Ecuador

**Civil Engineer /GIS specialist** (in lieu of military service)

Mar.2008 – Sep.2010

- Constructed and managed the GIS-based land registration and cadastral DB
- Inspected and conducted structural design of the observatory: La mirador de la moya

## Publications

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### ■ Peer-reviewed Journal Articles

Fan, P., Wan, G., Xu, L., **Park, H.**, Xie, Y., Liu, Y., Yue, W., Chen, J. (in press). Evolving walkability of major cities in China, *Landscape Ecology*.

**Park, H.**, Fan, P., John, R., Chen, J. (2017). Urbanization on the Mongolian plateau after the economic reforms: changes and the causes, *Applied Geography*, 86, 118-127.

Wu, S. R., Kim, S., **Park, H.**, Fan, P., Ligmann-Zielinska, A., Chen, J. (2017). How green buildings communicate green design to the building Users? A survey study on a LEED-certified building, *Journal of Green Building*, 12(3). 85-100.

Fan, P., Ouyang, Z., Basnou, C., Pino, J., **Park, H.**, Chen, J. (2017). Nature-based solutions for urban landscapes under post-industrialization and globalization: Barcelona versus Shanghai, *Environmental Research*, 156, 272-283.

**Park, H.**, Tsusaka, W. T., Pedo, V. O., Kim, K. (2017). The impact of local development on social capital: Experimental evidence from the Bohol irrigation scheme, the Philippines, *Water*, 9(3), 202.

Fan, Y., Chen, J., Shirkey, G., John, R., Wu, S. R., **Park, H.**, Shao, C. (2016). Applications of structural equation modeling (SEM) in ecological studies: an updated review, *Ecological Processes*, 5(1), 19.

John, R., Chen, J., Kim, Y., Ouyang, Z., Xiao, J., **Park, H.**, Shao, C., Zhang, Y., Amarjargal, A., Batkhshig, O., Qi, J. (2016). Differentiating anthropogenic modification and precipitation-driven change on vegetation productivity on the Mongolian Plateau, *Landscape Ecology* 31(3), 547-566.

### ■ Book Chapters

Kim, B., **Park, H.**, Park, J. (forthcoming). The evolution of informal settlers' political gains in changing state regimes in Seoul. In R. Rocco & J. V. Ballegoijen (Eds), *Routledge Handbook on Informal Urbanisation*, Routledge: OX, UK.

Tsusaka, W. T., Pedo, V. O., Kajisa, K., Moya, P., **Park, H.**, Apple Suplido, M.E., Buresh R. J. (2013). *The Preliminary Assessment of NMRice: A Simulation Analysis with IRRI-MICRA Baseline Survey Data*, IRRI: Los Banos.

You, M., **Park, H.** (2012). Implementing E-waste management program into developing country through Public Private Partnership, In KOICA (Ed), *The Future of Korean Development Cooperation*, Hanwool: Seoul.

### ■ Manuscripts in Progress

John, R., Chen, J., Giannico, V., **Park, H.**, Xiao, J., Ouyang, Z., Laforteza, R., Shirkey, G., Shao, C., Qi, J. (in

- revision). Spatio-temporal estimates of canopy cover and herbaceous aboveground biomass on the Mongolian Plateau and their climate and anthropogenic controls. *Remote Sensing of Environment*.
- Fan, P., Ouyang, Z., Duong, N. D., Hang, N. T., **Park, H.**, Chen, J. (under review). Urban landscape, economic development, environmental and social changes in transitional economies: Vietnam after Doimoi. *Landscape and Urban Planning*.
- Shah, H. S., Wagner, H. C., Sanga, U., **Park, H.**, Niles, M., Monteiro de Lima Demange, L. H., Gueiros, C., (in prep). Do household “capitals” explain adaptation to hydro-climatic change in the Indo-Gangetic Plains? Evidence from in Bihar and Haryana (India), *Global Environmental Change*.
- Park, H.**, Fan, P., John, R., Ouyang, Z., Chen, J. (in prep). Urban sprawl and informal settlements: Spatiotemporal trends in Ger districts in Ulaanbaatar, Mongolia.
- Chen, J. **Park, H.**, Tian, L., Ouyang, Z., Giannico, V., Fan, P., Laforteza, R. (in prep). Permanent physical and social landmarks constrain urban landscape development and function in culturally contrasting societies
- Park, H.**, Mack, E., Chen, J. (in prep). Exploring the impact of ICTs on innovation in Global South
- Park, H.**, Sanga, U., Shah, H. S., Wagner, H. C., Monteiro de Lima Demange, L. H., Gueiros, C. (in prep). How do farmers adapt to climate stressors? An agent-based modeling approach to understand the decision-making process of agrarian farmers in India.

### **Selected Presentation (\* is presenter)**

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- Park, H.\*** (2018). Deciphering the complexity of urbanization in transitional economy. AAG 2018 Annual Meeting, New Orleans, USA
- Park, H.\***, Fan, P., John, R., Ouyang, Z., Chen, J. (2017). Urban sprawl and informal settlements: Spatiotemporal trends of Ger districts in Ulaanbaatar. ACSP Annual Conference, Denver, USA. (Gill-Chin Lim Travel Grant Awardee)
- Park, H.\***, Fan, P., John, R., Chen, J. (2017). Urban sprawl and informal settlements: Spatiotemporal trends of Ger districts in Ulaanbaatar, Mongolia. NASA LCLUC Science Team Meeting, Rockville, USA (Poster)
- Park, H.\***, Fan, P., John, R., Chen, J. (2016). Urbanization on the Mongolian Plateau after the economic reform: the changes and drivers. NASA LCLUC Science Team Meeting, North Bethesda, USA (Poster)
- Park, H.\*** (2015). An agent-based modeling of informal housing: Assessing the impacts of climate change and market force in Ulaanbaatar, Mongolia, AAG Annual Meeting, Chicago, USA (Urban Geography Specialty Group Travel Grant Awardee)
- Park, H.\***, Kim, K. (2014). Local Development Project and Its Social Impact: The case of Bohol irrigation scheme, the Philippines, Association of Collegiate Schools of Planning (ACSP) Annual Conference, Philadelphia, USA.
- Park, H.\***, Kim, K. (2013). Using Spatial Pattern Analysis to Explore Local Characteristics: A Focus on F&B Stores in Gangnam Commercial District, South Korea, Association of American Geographers (AAG) 2013 Annual Meeting, Los Angeles, USA
- Park, H.\***, Tsusaka, W. T., Pede, V. O. (2013). A Comparative Study of Social Behavior in Irrigated and Rainfed Areas: The Case of Bohol Irrigation Scheme, the Philippines. ADB Asia Water Week 2013, Manila, Philippines

### **Research Experience**

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- Center for Global Change and Earth Observation (CGCEO), MSU** East Lansing, USA  
**Graduate Research Assistant** Aug.2014 – Present  
Coupled Human & Natural System on the Mongolian Plateau (NSF-funded project)  
  - Developed and conducted semi-structured interviews and household surveys for analyzing rural-to-urban migration in Mongolia and Inner Mongolia, China
  - Analyzed spatiotemporal patterns of urbanization by using satellite imagery
  - Compared urban and land-use policies during economic transitions of the Mongolian plateau.**Environmental Planning Institute, Seoul National University** Seoul, Korea  
**Researcher** Dec.2013 – Jun.2014  
Public housing prototype development in Seoul (Seoul Metropolitan Government funded Project)  
  - Facilitated process review workshops with Seoul Metropolitan Government
  - Designed, and delivered surveys and interviews with residents and F&B tenants**International Rice Research Institute, Social Science Division** Los Banos, Philippines  
**Intern Researcher** Oct.2012 – Mar.2013  
An assessment study of Japan International Cooperation Agency (JICA) Bohol ODA project  
  - Interviewed beneficiaries of the irrigation project and related stakeholders

- Spatial-econometric analysis on the social impact (i.e., social capital) of the irrigation project
- Built econometric models to analyze farmers' agricultural activities contingent on climate variations

### Architecture and Urban Research Institute

Anyang, Korea

#### Research Assistant

Aug.2011 – Nov.2011

- Facilitated process review workshops with research fellows
- Analyzed building users' behavioral patterns in public space in the downtown area

### Teaching Experience

#### ■ Bailey Scholars Program

- A learning community focused on innovative teaching and learning practices. (bi-weekly pedagogical training)
- Facilitated the undergraduate course in every other semester

ANR 410, Integrated Learning Transitions / **Instructor** (Graduate Course Convener) Spring, 2018  
: Co-developed a syllabus and student-led projects

ANR 410, Integrated Learning Transitions / **Instructor** (Graduate Course Convener) Spring, 2017  
: Co-developed an environmental education after-school program for K-12 students as a semester-long project

ANR 310, Integrated Learning Seminar / **Instructor** (Graduate Course Convener) Spring, 2016  
: Co-developed a syllabus for discussion modules including diversity awareness and self-understanding

#### ■ Guest Lectures

UP 801, Concepts and Issues in Planning and Development Fall, 2015 & 2017

UP 454, Local Economic Planning Fall, 2017

### Professional Services

**Session Organizer:** Climate Change and Agrarian Adaptation in the Global South / AAG 2018 2018

**Organizing committee:** Environmental Science and Policy Program Research Symposium 2017

**Modelling Facilitator:** Innovations in Collaborative Modelling Workshop 2016

**Journal Reviewer:** Journal of Geophysical Research: Biogeosciences; Population and Environment; International Journal of Disaster Risk Reduction

### Grants & Awards (major grants/scholarships in bold)

#### ■ Research Grants

Mar. 2016 **Socio-Environmental Synthesis Research for Graduate Students: Modeling Adaptation and Vulnerability to Climate Risks from the "Ground-up"** National Socio-Environmental Synthesis Center (SESYNC)

Jun. 2015 **2015 Asia Development Fellowship** (\$ 8,000) The Asia Foundation & KDI School  
: Understating of Informal Urbanization: Using a participatory modeling framework

Oct. 2013 Seoul National University (SNU) in Global Research (\$ 14,000) SNU  
: Transient workers' settlement and their amusement places in the globalized city

#### ■ Awards & Scholarships

May. 2017 Environmental Science and Policy Program (ESPP) Network Fellow MSU

Jan. 2017 **NASA-MSU Professional Enhancement Awards** NASA-MSU

2015, 2016 Bailey Scholars Graduate Fellowship MSU

2015 - 2017 School of Planning, Design, and Construction Fellowship MSU

Apr. 2016 National Endowment for the Humanities Summer Institute Fellow, Modern Mongolia: Heritage and Tradition Amid Changing Realities (Declined) American Center for Mongolian Studies

Feb. 2014 **The Best Master Thesis Award** SNU

Aug. 2013 **Korean Government Doctoral Study Abroad Scholarship** Ministry of Education, Korea  
: The most prestigious scholarships for study abroad. (\$ 71,000)

May. 2012 **The 2<sup>nd</sup> prize winner of KOICA thesis competition in international cooperation and development** Korea International Cooperation Agency (KOICA)  
: Implementing E-waste management program into developing countries through Public-Private Partnership

Sep. 2011 **World Friends Korea Scholarships** (\$ 11,000) KOICA

Mar. 2011 The 3<sup>rd</sup> prize winner of the KOICA East Asia Climate Partnership thesis competition KOICA  
: A Proposal for green growth in developing country

Dec. 2006 **The 1<sup>st</sup> Prize Award (The Chairman of the National Assembly)** National Assembly of Korea

## of “Making a Clean Society” idea contest

: A New Planning Process for the New Town Development Project

### ■ Travel Funds

Oct. 2017	Professional development grant by Council of Graduate Students	MSU
Aug. 2017	<b>Gill-Chin Lim Travel Award for 2017 Association of Collegiate Schools of Planning</b>	<b>ACSP</b>
Mar. 2015	Urban Geography Specialty Group Travel Award	AAG
Mar. 2015	ESPP Conference Travel Funding	MSU
Sep. 2014	Travel grant by Council of Graduate Students	MSU

### Extracurricular Activities

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#### ■ Community Service

##### Community Architecture Network Korea (CAN) Korea

- Co-founder / Financially supported by Seoul Institute Seoul, Korea  
Aug.2013 – Jul.2014
- Mapping informal housing residents’ behavioral patterns at the Metropolitan Seoul

#### ■ International Leadership

##### APIEL (Asian Program for Incubation of Environmental Leaders) by University of Tokyo

“A step forward to achieving bottle to bottle (BtB) recycling system.” Hokkaido, Japan Feb.2013

: CSR proposal for Coca-Cola Japan; suggesting Closed-Loop Supply chains

“The assessment of ODA projects through sustainable aspects.” Phnom Pen, Cambodia

: The assessment study of the Hun Sen Krangyov Development Centre” Jul.2012

“The Change in QoL of local villagers due to the creation of the HEMC.” Guangzhou, China

: The impact assessment study of mega development project Jan – Feb.2012

##### UNEP TUNZA NEAYEN, Korean Youth Delegator Shanghai, China

• North-East Asian Youth Environmental Network Program Sep.2006

##### Inter-government Youth Exchanges, Korean Youth Delegator Ulaanbaatar, Mongolia

• Selected by the Ministry of Foreign Affairs as a youth delegation of Korea Jun.2006

#### ■ Technical Assistance

##### Inspection trip for KOICA ODA Projects Sri Lanka

Solid waste management, solar power plant, and capacity building program Jun.2012

##### Developing educational materials for affordable technologies Pohang, Korea

• Assistant for a textbook titled as “Affordable Technologies for International Development.” Mar – Jun.2011

##### Ulaanbaatar, Mongolia Field Research Ulaanbaatar, Mongolia

• Co-authored “A Preliminary Research for International Development at Mongolia.” Aug.2007

: Studied on urban development process and associated relationships among aid agencies

##### Runtaek Eco-village Project Siem Reap, Cambodia

: preliminary research for preparing “RUN TA EK eco-village master plan in Siem Reap” Jan – Feb.2007

#### ■ Volunteer

##### Overseas Volunteers Program Besi Sahar, Nepal

• Supported by Ministry of Gender Equality and Family Jul.2007

• Improved the Besi Sahar Orphanage's environment and facility

##### Overseas Volunteers Program Old San Jose, Philippines

• Improved an elementary school’s environment and facility Jan.2006

### Professional Affiliations

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Association of Collegiate Schools of Planning (ACSP) / American Association of Geographers (AAG) /

American Planning Association (APA) / International Association for Landscape Ecology (IALE)

### Qualification and Skills

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<b>Languages</b>	Spanish (Fluent): DELE B2 Intermedio, Korean (Native)
<b>Certification</b>	LEED GA (Leadership in Energy and Environmental Design, Green Associates)
<b>Technical</b>	Statistics Packages: SPSS, R, STATA, Mplus, and HLM6
	Geoinformatics packages and Programming languages: Arc GIS and Python
	Remote Sensing packages: eCognition, ENVI, and ERDAS
	Graphics tools: Adobe Illustrator and Photoshop