

# OH SEOK KIM

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## PROFESSIONAL POSITION:

- Korea Environment Institute, Seoul, Korea August 2014–.
- Research Fellow (Tenure Track), Korea Adaptation Center for Climate Change.
- Korea University, Seoul, Korea October 2013–June 2014.
- Research Professor, Division of Environmental Science and Ecological Engineering.
- Seoul National University, Seoul, Korea September 2012–April 2013.
- Visiting Scholar, College of Agriculture and Life Sciences.
- Peking University, Beijing, China June 2011–June 2012.
- Visiting Scholar, Shanshui Conservation Center and School of Life Sciences.

## EDUCATION:

- University of Southern California, Los Angeles, California August 2013.
- Ph.D. in **Geography**, Dana and David Dornsife College of Letters, Arts and Sciences (Dornsife College),  
Research Title: “A Spatially Explicit Approach to Measuring Carbon Dynamics For Reducing Emissions From Deforestation and Forest Degradation: A Case Study of Chinese Forests,”  
Advisor: Dr. Joshua P. Newell (School of Natural Resources and Environment at University of Michigan, Ann Arbor).
- Clark University, Worcester, Massachusetts October 2008.
- M.A. in **Geographic Information Sciences for Development and Environment (GISDE)**,  
Department of International Development, Community and Environment (IDCE) and Graduate School of Geography,  
Research Title: “Comparison of Two Land Change Modules: The Case Study of Bolivia,”  
Advisors: Drs. Robert Gilmore Pontius Jr. (First reader) and J. Ronald Eastman (Second reader).
- Korea University, Seoul, Korea August 2005.
- B.A. in **Geography Education**, College of Education.
  - B.E. in **Statistics**, College of Political Science and Economics.

## RESEARCH INTERESTS:

- Coupled human and natural systems & human dimensions of climate change.
- Forest transition theory & carbon footprinting of deforestation and wood products.
- Spatial analyses and modeling (geographic information systems/science).
- Reducing emissions from deforestation and forest degradation (REDD).

## PUBLICATIONS:

*Peer-reviewed journal articles (international journals):*

- **Kim, O.S.**, W.-K. Lee, and Y. Son, An Assessment of VCS-Approved Methods for Setting REDD Emission Reference: A Case Study from Cambodia, *Environment Research Letters* (under review).
- **Kim, O.S.**, Z. Yi, J.P. Newell, and C.H. Cannon, An Integrated Application of Geographically Weighted Regression and Landscape Classification to Identifying Determinants of Rubber Productivity: A Case Study from Xishuangbanna, Yunnan, China, targeting *Applied Geography* (in preparation).
- **Kim, O.S.** and J.P. Newell, The “Geographic Emission Benchmark” Model: A Baseline Approach to Measuring Emissions Associated with Deforestation and Forest Degradation, *Journal of Land Use Science* (forthcoming).
- **Kim, O.S.**, 2010, An Assessment of Deforestation Models for Reducing Emissions from Deforestation and Forest Degradation (REDD), *Transactions in GIS*, 14(5):631–654.

*Peer-reviewed journal articles (local journals):*

- **Kim, O.S.** and Y.-C. Youn, 2014, An Identification of Project Sites for Lowering Carbon Emissions and Saving Forests in DPR Korea, *Journal of the Korean Geographical Society*, 49(2):264–274 (in Korean).
- **Kim, O.S.**, 2014, “Fashion” in GIS, *Journal of the Korean Association of Professional Geographers*, 48(1):69–78.

- **Kim, O.S.**, 2013, Assessing the Metric to Measuring Land-Use Change Suitability, *Journal of the Economic Geographical Society of Korea*, 16(3):458–471.
- **Kim, O.S.**, 2013, Mapping Climate Change: Spatio-Temporal Trends of Global Precipitation (1979–2006), *Journal of the Korean Cartographic Association*, 13(2):67–75.
- **Kim, O.S.**, 2013, In Pursuit of Low Carbon Cities: Understanding Limitations of ICLEI’s International Local Government Greenhouse Gas Emissions Protocol, *Journal of the Korean Geographical Society*, 48(1):152–165.

*Technical reports and other papers:*

- **Kim, O.S.**, 2014, A Trend of Forest-Cover Change in DPR Korea (2000–2010), Technical report (in Korean), Department of Forest Sciences, Seoul National University, Seoul, Korea.
- **Kim, O.S.**, 2012, A Forest Carbon Portfolio of Xishuangbanna, China: Observations and Projections (2000–2010), Working paper, Shanshui Conservation Center and School of Life Sciences, Peking University, Beijing, China.
- **Kim, O.S.**, 2010, Understanding ICLEI’s International Local Government Greenhouse Gas Emissions Analysis Protocol (IEAP) Version 1.0, Technical report, USC Center for Sustainable Cities, Los Angeles, CA.
- Oden, M., Z. Lehatto, D. Arellano, G. Rooprai, T. Durchslag-Richardson, and **O.S. Kim**, 2010, USC Greenhouse Gas Emissions Report 2001–2009, Technical report, USC Office of Sustainability, Los Angeles, CA (Website: [http://green.usc.edu/sites/default/files/USC\\_GHG\\_Baseline.pdf](http://green.usc.edu/sites/default/files/USC_GHG_Baseline.pdf)).
- **Kim, O.S.**, 2010, Introduction to Idrisi Taiga: Vol. 1–6, Online lecture (in Korean), Korean National GIS Education Center, Ministry of Land, Transport and Maritime Affairs, Gwacheon, Korea (Website: <http://e-gis.or.kr>).
- **Kim, O.S.**, 2009, Carbon Loss from Timber Harvest at the Product Level: Biological and Industrial Carbon Cycles, Technical report, USC Center for Sustainable Cities, Los Angeles, CA.
- **Kim, O.S.**, 2008, Geographic Information Systems/Science (GIS) Applications for Payment for Ecosystem Services (PES): The REDD Project, Technical report, Shanshui Conservation Center, Peking University, Beijing, China.
- **Kim, O.S.**, 2008, Geographic Information Systems/Science (GIS) Applications for Payment for Ecosystem Services (PES): The Freshwater Project, Technical report, Shanshui Conservation Center, Peking University, Beijing, China.
- Toledano, J., J.R. Eastman, F. Sangermano and **O.S. Kim**, 2008, Conserving Bolivia’s Critical Resources Through GIScience, Poster, 8<sup>th</sup> National Conference on Science, Policy and the Environment hosted by National Council for Science and the Environment, Washington DC.

**AWARDS AND ACCOMPLISHMENTS:**

- AAG Dissertation Grants (\$500), AAG Annual Meeting, New York City, NY 4/12.
- Ph.D. Merit Fellowship (\$19,300), USC Dornsife College 8/11–5/12.
- USC Donald and Marion James Montgomery Endowed Scholarship (\$5,000), USC Dornsife College 6/11.
- AAG IGIF Graduate Research Award (\$250), AAG Annual Meeting, Seattle, WA 3/11.
- HSBC Fellow 2010 (\$3,000), USC Center for Sustainable Cities 6/10–7/10.
- AAG GSAG Paper Competition Award (2<sup>nd</sup> Place, \$100), AAG Annual Meeting, Washington DC 4/10.
- HSBC Fellow 2009 (\$4,000), USC Center for Sustainable Cities 6/09–7/09.
- Advanced Spatial Analysis Travel Funding (\$500), National Institute of Health (NIH) 7/09.
- USC GPSAW Annual Research Fair Winner (Runner-up, gift), USC Graduate Student Government 4/09.
- Ph.D. Merit Fellowship (\$19,300), USC Dornsife College 8/08–4/09.
- AAG RSSG Illustrated Paper Competition Award (2<sup>nd</sup> Place, \$300), AAG Annual Meeting, Boston, MA 4/08.
- IDCE Fellowship, Department of IDCE and School of Geography, Clark University 9/06–5/08.
- Certificate of Commendation, Iraq Peace and Reconstruction Armed Force, Republic of Korea Army 5/04.
- Dual Degree Admission, Department of Statistics, Korea University 3/01.
- Scholarship, Department of Geography Education, Korea University 3/00–2/01.
- Excellent Student Award, School of Education, Korea University 9/99.

## TEACHING EXPERIENCE:

- Lecturer (part time), Department of Geography Education, Korea University, Seoul, Korea 08/12–12/12, 12/13–01/14.
- Taught “Population Geography” including multiple team projects and discussion sessions.
- Teaching Assistant (part time), USC Dornsife College, Los Angeles, CA 08/09–05/11.
- Taught three 2hr-long GIS labs every week (20 undergraduates for each lab), in addition to the lab material development, office hours, grading, etc., for the general education module entitled “Natural Hazards.”
- Executive Director (founder), Idrisi Korea, Seoul, Korea 09/08–present.
- Published online lectures using Flash animation with the support of Ministry of Land, Transport and Maritime Affairs, Republic of Korea (Website: <http://www.e-gis.or.kr>).
  - Distributing Clark Labs’ products, namely Idrisi™, CartaLinx™, and Land Change Modeler for ArcGIS™, and supporting the users in Korea as an authorized reseller.

## EDUCATIONAL CERTIFICATES:

- University of California, Santa Barbara, California July 2009.
- Spatial Regression Workshop, Center for Spatially Integrated Social Science (CSISS).
- Harvard University, Cambridge, Massachusetts June–July 2005.
- Urban Planning and Design Concentration, Career Discovery Program, Graduate School of Design (GSD).
- ESRI Korea, Seoul, Korea April 2005.
- ArcGIS Server and ArcGIS Engine Training.

## SOFTWARE PROFICIENCY:

- Geographic Information Systems: ArcGIS 10.x (Spatial Analyst, 3D Analyst, and Geostatistical Analyst), ArcView 3.x, Arc/Info Workstation 8.x, ArcGIS Server 9.x, ArcGIS Engine 9.x, ArcSDE 9.x, ArcIMS 9.x, and Quantum GIS.
- Remote Sensing and Statistics: Idrisi, Erdas Imagine, ENVI, R, Sigmplot, GeoDa, Minitab, SAS, SPSS, and Stata.
- Languages: VBA with ArcObjects & Excel, Arc/Info Macro Language, and Idrisi Macro Language.
- Graphics: Adobe Photoshop, Adobe Premiere, Picasa, and Windows Live Photo Gallery.
- Others: LaTeX, MS Excel/Word/Powerpoint/Access, Apache OpenOffice, and Mac Pages/Numbers/Keynote.

## PROFESSIONAL PRESENTATIONS, CONFERENCES & WORKSHOPS:

- **Kim, O.S.**, W.-K. Lee, and Y. Son, 2014, An Assessment of VCS-Approved Methods for Setting REDD Emission Reference: A Case Study from Cambodia, Paper presentation (in Korean), Biannual Meeting of Korean Society of Climate Change Research (Summer 2014), Seoul, Korea.
- **Kim, O.S.**, 2014, Introduction to Forestry Carbon Offset Projects, Invited talk (in Korean), Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Korea.
- **Kim, O.S.**, W.-K. Lee, and Y. Son, 2014, A Spatially Explicit Approach or an Aspatial One? Identifying a Better Reference Level for REDD: A Case Study from Cambodia, Paper presentation (in Korean), Division of Environmental Science and Ecological Engineering, Korea University, Seoul, Korea.
- **Kim, O.S.**, 2014, Answering the Challenges of Land-Change Modeling to Attain More Accurate Forest Carbon Credit Estimates, Invited talk, Department of Geography, National Taiwan University, Taipei, Taiwan.
- **Kim, O.S.**, 2014, Answering the Challenges of Land-Change Modeling to Attain More Accurate Forest Carbon Credit Estimates, Invited talk, Graduate School of Public Administration, Seoul National University, Seoul, Korea.
- **Kim, O.S.**, 2014, Answering the Challenges of Land-Change Modeling to Attain More Accurate Forest Carbon Credit Estimates, Invited talk, The Nature Conservancy (TNC) China Headquarter, Beijing, China.
- **Kim, O.S.**, 2013, A Relationship between Deforestation and Urban Greenhouse Gas Emissions, Paper presentation (in Korean), Biannual Meeting of Korean Urban Geographical Society (Fall 2013), Seoul, Korea.
- **Kim, O.S.**, 2013, A “Quick-and-Dirty” Method to Set Reference Emission Levels for Forests, Paper presentation, AAG Annual Meeting 2013, Los Angeles, CA.
- **Kim, O.S.**, 2012, Setting a Reference Emission Level (REL) for Reducing Emissions from Deforestation and Forest Degradation (REDD) in Xishuangbanna, China, Invited talk (in Korean), Ecological Economics Laboratory, Department of Forest Sciences, Seoul National University, Seoul, Korea.

- **Kim, O.S.** and J.P. Newell, 2012, Spatial Aspects of Regional Deforestation Rate Estimates: A Case Study of Southwest China, Paper presentation, AAG Annual Meeting 2012, New York City, NY.
- **Kim, O.S.**, 2012, Setting a Reference Emission Level (REL) for Reducing Emissions from Deforestation and Forest Degradation (REDD) in Xishuangbanna, China, Invited talk, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China.
- **Kim, O.S.**, 2011, Setting a Reference Emission Level (REL) for Reducing Emissions from Deforestation and Forest Degradation (REDD) in Xishuangbanna, China, Invited talk, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Xishuangbanna, China.
- **Kim, O.S.**, 2011, Introduction to LaTeX, Invited talk, Shanshui Conservation Center and School of Life Sciences, Peking University, Beijing, China.
- **Kim, O.S.**, 2011, Introduction to Reducing Emissions from Deforestation and forest Degradation (REDD), Invited talk, Shanshui Conservation Center and School of Life Sciences, Peking University, Beijing, China.
- **Kim, O.S.**, 2010, Comparison of Two GIS-based Land Change Modules for Constructing REDD Baselines in Bolivia, Paper presentation, AAG Annual Meeting 2010, Washington DC.
- **Kim, O.S.**, 2009, Introduction to Geographically Weighted Regression, Invited talk, USC Geography, Los Angeles, CA.
- **Kim, O.S.**, 2008, Developing Spatially Explicit Baseline Methodology for REDD, Invited talk, TNC China Headquarter, Beijing, China.
- **Kim, O.S.**, Yi He and Qiang Deng, 2008, Developing Spatially Explicit Baseline Methodology for REDD, Workshop presentation, TNC Climate Change Workshop, Kunming, China.
- **Kim, O.S.**, 2008, Land Change Modeler for Ecological Sustainability, Invited talk, Shanshui Conservation Center and School of Life Sciences, Peking University, Beijing, China.
- **Kim, O.S.**, 2008, Contribution of GIScience to Carbon Credit Estimation, Illustrated paper presentation, AAG Annual Meeting 2008, Boston, MA.
- Pontius Jr., R.G., S.C. Crema and **O.S. Kim**, 2007, Connecting Deforestation and Carbon Mass Estimation, Workshop presentation, Conservation International (CI) Carbon Workshop 2007, Quito, Ecuador.
- Pontius Jr., R.G., S.C. Crema and **O.S. Kim**, 2007, Step by Step Example of Modeling: GEOMOD using Bolivia Dataset, Workshop presentation, CI Carbon Workshop 2007, Quito, Ecuador.
- Pontius Jr., R.G., S.C. Crema and **O.S. Kim**, 2007, Introduction to Scenario Modeling Concepts, Workshop presentation, CI Carbon Workshop 2007, Quito, Ecuador.
- Pontius Jr., R.G., S.C. Crema and **O.S. Kim**, 2007, Land Change Modeler for Ecological Sustainability, Workshop presentation, CI Carbon Workshop 2007, Quito, Ecuador.
- Pontius Jr., R.G., S.C. Crema and **O.S. Kim**, 2007, Discussion of Other Scenario Models in Use, Workshop presentation, CI Carbon Workshop 2007, Quito, Ecuador.

#### **PROFESSIONAL SERVICE:**

- Student Department Leader, Graduate Student Forum, Dornsife College, University of Southern California 8/09–5/10.
- Met the Vice Dean with other student department leaders on a regular basis to discuss how to enhance graduate students' resources and school environments and to promote our research, learning, and teaching experience.
- Admission Committee Member of GISDE, Department of IDCE and School of Geography, Clark University 1/07.
- Reviewed application materials as a student representative with the faculty committee members.
- Military GIS Project Manager (full time), Special Airborne Force, Republic of Korea Army 7/02–9/04.
- Implemented Military Geographic Information Systems with the Department of Military Intelligence.
  - Consulted other armed forces, namely UDT SEAL and the 3<sup>rd</sup> Headquarter, to support their Military GIS.

#### **EDITORIAL SERVICE (# of review):**

Article reviewer: Global Change Biology (2), Transactions in GIS (2), and African Journal of Biotechnology (1).

**LANGUAGES:**

- Fluent in English and Korean and conversant in Mandarin Chinese.

**PROFESSIONAL SOCIETY MEMBERSHIPS:**

- Association of American Geographers (AAG) since 2007.
- American Geophysical Union (AGU) since 2008.
- Korean Geographical Society since 2011.

**REFERENCES:**

- Joshua P. Newell, Ph.D.  
Assistant Professor, School of Natural Resources and Environment,  
University of Michigan at Ann Arbor, MI.  
[jnewell@umich.edu](mailto:jnewell@umich.edu), +1 (734) 763-8652.
- Andrew J. Curtis, Ph.D.  
Associate Professor, Department of Geography,  
Kent State University, OH.  
[acurti13@kent.edu](mailto:acurti13@kent.edu), +1 (330) 672-2045.
- Jeffrey B. Nugent, Ph.D.  
Professor, Department of Economics,  
University of Southern California, CA.  
[nugent@usc.edu](mailto:nugent@usc.edu), +1 (213) 740-2107.
- J. Ronald Eastman, Ph.D.  
Professor, Graduate School of Geography,  
Director, Clark Labs,  
Clark University, MA.  
[reastman@clarku.edu](mailto:reastman@clarku.edu), +1 (508) 849-2321.
- James Toledano, Ph.D.  
Executive Director, Clark Labs,  
Clark University, MA.  
[jtoledano@clarku.edu](mailto:jtoledano@clarku.edu), +1 (508) 793-7526.
- Robert Gilmore Pontius Jr., Ph.D.  
Professor, Graduate School of Geography,  
Clark University, MA.  
[rpontius@clarku.edu](mailto:rpontius@clarku.edu), +1 (508) 793-7761.
- Myung-Hoe Huh, Ph.D.  
Professor, Department of Statistics,  
Korea University, Seoul, Korea.  
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--end of curriculum vitae, last updated on 6/13/14 by Oh Seok Kim--