

# Jihyun LIM

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## Personal Data

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Place and Date of Birth : Seoul, Republic of Korea | 30 May, 1981  
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## Education

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Oct 2012 ~ present	Ph.D. student, Hiroshima University, Hiroshima, Japan Department of Development and Technology, Graduate School for International Development and Cooperation (IDEC), Hiroshima University, Hiroshima, Japan • Advisor: Associate prof. Kensuke Kawamura
Oct 2010 ~ Sep 2012	MS in Agriculture, Hiroshima University Department of Development and Technology, Graduate School for International Development and Cooperation (IDEC), Hiroshima University, Hiroshima, Japan • Supervisor: Associate prof. Kensuke Kawamura
Mar 2000 ~ Aug 2005	BA in Landscape architecture, Sungkyunkwan University, Suwon, Korea

## Career track

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Sep 2005 ~ Aug 2009	Landscape architectural engineer – HJ associates, Seoul, Korea
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## Language & Qualifications

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Korean	Mother tongue
English	Fluent in Written and Spoken (TOEIC:795)
Japanese	Upper-intermediate in Written Fluent in Spoken and (JLPT: N2)
Computing skills	Matlab, R, Adobe Illustrator & Photoshop, Autocad

## Publications

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- **Journal article (peer-reviewed):**

1. **Lim, J.**, Kawamura, K., Lee, HJ., Yoshitoshi, R., Kurokawa, Y., Tsumiyama, Y. and Watanabe, N. (2015) Evaluating a hand-held crop-measuring device for estimating the herbage biomass, leaf area index and crude protein content in an Italian ryegrass field. *Grassland Science*, (Article first published online: 20 FEB 2015). [IF (2013) = 0.554]
2. Yoshitoshi, R., Watanabe, N., Yasuda, T., Kawamura, K., Sakanoue, S., **Lim, J.** and Lee, HJ. (2015) Preliminary study to predict the spatial distribution of dung from beef cattle in a slope-grazed pasture. *Grassland Science*, 61, 50-55. [IF (2013) = 0.554]
3. Watanabe, N., Sakanoue, S., Lee, H.-J., Lim, J., Yoshitoshi, R. and Kawamura, K. (2014) Use of a hand-held crop growth measuring device to estimate forage crude protein mass of pasture. *Grassland Science*, 60, 214-224. [IF (2013) = 0.554]
4. Kawamura, K., Sakuno, Y., Tanaka, Y., Lee, HJ., **Lim, J.**, Kurokawa, Y. and Watanabe, N. (2011) Mapping herbage biomass and nitrogen status in an Italian ryegrass (*Lolium multiflorum* L.) field using a digital video camera with balloon system. *Journal of Applied Remote Sensing*, 5, 053562-10. [IF (2013) = 0.892]
5. Kawamura, K., Watanabe, N., Sakanoue, S., Lee, HJ., **Lim, J.** and Yoshitoshi, R. (2013) Genetic algorithm-based partial least squares regression for estimating legume content in a grass-legume mixture using field hyperspectral measurements. *Grassland Science*, 59, 166-172. [IF (2013) = 0.554]

- **Proceedings (peer-reviewed):**

1. Yoshitoshi, R., Watanabe, N., Kawamura, K., Sakanoue, S., **Lim, J.** and Yasuda, T. "Bayesian modeling for estimating cattle's dung position in pasture". The 22nd International Grasslands Congress (IGC), Sydney, Australia, September 15-19, 2013, In: *Proceeding CD*.
2. **Lim, J.**, Kawamura, K., Yoshitoshi, R., Lee, HJ., Kurokawa, Y. and Watanabe, N. "A Hand-Held Crop Measuring Device for Estimating Herbage Biomass and LAI Status in An Italian Ryegrass Field". The 33rd Asian Conference On Remote Sensing, Ambassador City Jomtien Hotel, Pattaya, Thailand, 2012, In: *Proceeding CD*.
3. Yoshitoshi, R., Watanabe, N., Kawamura, K., Sakanoue, S., **Lim, J.** and Yasuda, T. "A Methodology for Determining Cattle's Dung Position in Grazed Hill Pasture". The 33rd Asian Conference On Remote Sensing (ACRS), Ambassador City Jomtien Hotel, Pattaya, Thailand, November 26-30, 2012, In: *Proceeding CD*.

4. Kawamura, K., Watanabe, N., Sakanoue, S., Lim, J., Yoshitoshi, R. and Odagawa, S. "Herbage Biomass and Quality Status Assessment in a Mixed Sown Pasture from Airborne Based Hyperspectral Imaging". The 33rd Asian Conference On Remote Sensing (ACRS), Ambassador City Jomtien Hotel, Pattaya, Thailand, November 26-30, 2012, In: *Proceeding CD*.
5. Lim, J., Kawamura, K., Lee, HJ., Tachikawa, T., Yoshitoshi, R., Sakuno, Y., Kurokawa, Y. and Watanabe, N. "Estimation of Herbage Biomass and Quality in Italian Ryegrass Meadow Field Using Genetic Algorithm Partial Least Squares Regression with Field Hyperspectral Measurements". The 4th Japan-China-Korea Grassland Conference, Centrair Hall, Aichi, Japan, March 30-April 1, 2012, In: *Proceedings of the 4th Japan-China-Korea Grassland Conference*, p. 232-233.
6. Lim, J., Kawamura, K., Lee, HJ., Tachikawa, T., Yoshitoshi, R., Sakuno, Y., Kurokawa, Y. and Watanabe, N. "A hand-held crop measuring device for assessing spatial variability of herbage biomass and LAI in an Italian ryegrass field". The 32nd Asian Conference on Remote Sensing (ACRS), Taipei International Convention Center (TICC), Taipei, Taiwan, October, 3-7 2011, In: *Proceeding CD*.
7. Kawamura, K., Watanabe, N., Sakanoue, S., Lee, HJ., Lim, J. and Yoshitoshi, R. "Estimation of Legume Content in Grass-Legume Mixtures from Field Hyperspectral Measurement". The 32nd Asian Conference on Remote Sensing (ACRS), Taipei International Convention Center (TICC), Taipei, Taiwan October 3-7, 2011, In: *Proceeding CD*.
8. Lim, J., Kawamura, K., Yoshitoshi, R., Betteridge, K. and Costall, D. "Hyperspectral proximal sensing as a tool for estimating herbage biomass and forage nutrient status in grassland, New Zealand". The 3rd Australian and New Zealand Spatially Enabled Livestock Management Symposium, Lincoln University, Lincoln, New Zealand, July 6, 2012, In: *Proceedings of the 3rd Australian and New Zealand Spatially Enabled Livestock Management Symposium*, p. 13-14.
9. Yoshitoshi, R., Kawamura, K., Lim, J., Betteridge, K., Ganeshi, S. and Costall, D. "Comparison of models for estimating critical source areas of nitrogen in hilly grassland, New Zealand". The 3rd Australian and New Zealand Spatially Enabled Livestock Management Symposium, Lincoln University, Lincoln, New Zealand, 6 July, 2012, In: *Proceedings of the 3rd Australian and New Zealand Spatially Enabled Livestock Management Symposium*, p. 31-32.

• **National Conference (in Japan):**

1. Lim, J., Kawamura, K., Yoshitoshi, R., Kurokawa, Y. and Watanabe, N. "Mapping forage quantity and quality in Italian ryegrass field during growing season using

- proximal sensing". 2015 年度日本草地学会信州大会, 信州大学農学部(南箕輪キャンパス), 2015 年 3 月 25-27 日, In: 日本草地学会誌 61(別), p. 2.
2. 川村健介, 小倉振一郎, 八代田真人, **Lim, J.**, Park, JH., Moon, SH. 「UAV 空撮による韓国の山地放牧地における高解像度 DEM の作成」 2015 年度日本草地学会信州大会, 信州大学農学部(南箕輪キャンパス), 2015 年 3 月 25-27 日, In: 日本草地学会誌 61(別), p. 123.
  3. 吉利怜奈, 川村健介, **林志炫**, 弓場憲生, 安田泰輔 「UAV 空撮画像から放牧地の牛糞は検出可能か？」 2015 年度日本草地学会信州大会, 信州大学農学部(南箕輪キャンパス), 2015 年 3 月 25-27 日, In: 日本草地学会誌 61(別), p. 7.
  4. 弓場憲生, 川村健介, 林志炫, 吉利怜奈, 範心硯 「放牧地における UAV オルソモザイク画像の位置精度の検証」 2015 年度日本草地学会信州大会, 信州大学農学部(南箕輪キャンパス), 2015 年 3 月 25-27 日, In: 日本草地学会誌 61(別), p. 36.
  5. 小倉振一郎, 八代田真人, 川村健介, **林志炫**, Park, JH., Moon, SH. 「韓国の山地放牧地における草地植生と放牧家畜の摂食植物」 2015 年度日本草地学会信州大会, 信州大学農学部(南箕輪キャンパス), 2015 年 3 月 25-27 日, In: 日本草地学会誌 61(別), p. 122.
  6. Nguyen, O. V., Kawamura, K., Trong, D. P., Zhe, G., **Lim, J.** and Suwandana, E. "Monitoring spatio-temporal changes on land surface temperature and land use changes in Red river delta, Vietnam using MODIS time-series imagery". システム農学会 2014 年度春季大会, 東京農業大学, 東京, 2014 年 5 月 23-24 日, In: システム農学会 2014 年度春季大会講演要旨集 p. 15-16..
  7. Xinyan, F., Kawamura, K., **Lim, J.**, Yoshitoshi, R., Yuba, N., Lee, HJ. and Kurokawa, Y. "Developing a simple visible and near-infrared (V-NIR) camera system for monitoring aboveground biomass in an Italian ryegrass field". 2014 年度日本草地学会宮崎大会, 宮崎観光ホテル, 宮崎市, 2014 年 3 月 30 日-4 月 2 日, 2014 In, p. In: 日本草地学会誌 60(別), p. 3.
  8. 吉利怜奈, 渡辺也恭, 川村健介, **林志炫**, 坂上清一, 安田泰輔 「大規模草地における精密放牧システムの構築 (17) 傾斜放牧地における牛の排糞場所の予測」 2014 年度日本草地学会宮崎大会, 宮崎観光ホテル, 宮崎市, 2014 年 3 月 30 日- 4 月 2 日. In, 日本草地学会誌 60(別), p. 2.
  9. 吉利怜奈, 川村健介, **Lim, J.**, 渡辺也, 坂上清一 「傾斜放牧地における牛の排糞場所を予測する空間モデルの比較」 システム農学会 2012 年度春季大会, とりぎん文化会館, 鳥取市, 2012 年 5 月 12-13 日. In: システム農学 28(別 1): p 23-24.
  10. Lim, J., Kawamura, K., Yoshitoshi, R., Lee, H.J., Kurokawa, Y. and Watanabe, N. "Estimation of herbage biomass and leaf area index using a hand-held crop growth measuring device with multiple linear regression analysis". 2012 年度日本草地学会北海道大会, 酪農学園大学, 北海道江別市, 2012 年 8 月 27-29 日. In: 日本草地学会誌 58(別): p. 21.

11. 川村健介, **林志炫**, 吉利怜奈, 黒川勇三, 弓場憲生, 渡辺也恭, 坂上清一「ラジコン飛行機空撮画像を利用した放牧地における植物群落高の空間的な分布の観測」2012年度日本草地学会北海道大会, 酪農学園大学, 北海道江別市, 2012年8月27-29日. In: 日本草地学会誌 58(別): p. 21.
12. 吉利怜奈, 渡辺也恭, 川村健介, **林志炫**, 坂上清一, 安田泰輔「大規模草地における精密放牧システムの構築(16) 傾斜放牧地における牛の排糞場所予測方法の比較」. 2012年度日本草地学会北海道大, 酪農学園大学, 北海道江別市, 2012年8月27-29日, 2012 In: 日本草地学会誌 58(別): p. 5.

• **National Conference (in Korea):**

1. Kawamura, K., Lee, HJ., **Lim, J.**, Yoshitoshi, R., Watanabe, N. and Sakanoue, S. "Remote sensing as a tool for rapid and non-destructive estimation of forage chemical content". 50th Symposium of the Korean Society of Grassland and Forage Science, Kyeongsang University, Jinju, Korea, September 13-14, 2012, In: *Proceedings of the 50<sup>th</sup> Korean Society of Grassland Science Conference*, p. 103-109.
2. Lee, HJ., Kawamura, K., **Lim, J.**, Yoshitoshi, R., Watanabe, N. and Sakanoue, S. "Estimating the spatial distribution of herbage mass of grass and legume by geostatistical analysis with field hyperspectral measurements". 50th Symposium of the Korean Society of Grassland and Forage Science, Kyeongsang University, Jinju, Korea, September 13-14, 2012, In: *Proceedings of the 50<sup>th</sup> Korean Society of Grassland Science Conference*, p. 208-209.