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Korea University
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EDUCATION

The University of Georgia – Athens, Georgia, USA 2007 – 2011

- Ph.D., Major in Horticulture (4.0/4.0)
- Dissertation topic: Water relations of bedding plants: water use, drought physiology, and gene expression

Korea University – Seoul, Korea 2001 – 2006

- Master of Science in Agriculture, Major in Floriculture (4.27/4.5)
- Thesis subject: Changes in leaf color of *Hedera helix*, *Hypoestes phyllostachya*, and *Pilea cadierei* under various indoor light intensity

Korea University – Seoul, Korea 1997 – 2001

- Bachelor of Science in Agriculture
Department of Horticultural Science, College of Natural Resources

WORK AND PROFESSIONAL EXPERIENCE

- **Assistant, Associate Professor**, 2015–Present, Korea University, Seoul, South Korea
- **Secretary General**, 2018–2019, The 13th International Symposium on Flower Bulbs and Herbaceous Perennials, ISHS
- **Editor in Chief**, 2017–2019, The 3rd International Orchid Symposium, ISHS
- **Associate Editor (Floriculture)**, 2017–Present, Horticulture, Environment and Biotechnology
- **Editorial Board**, 2016–Present, Korean Society for Bio-Environmental Control
- **Editorial Board**, 2016–Present, Society for People, Plants, and Environment
- **Editorial Board**, 2016–Present, Korean Society for Floricultural Science
- Assistant Professor, 2013–2015, Pai Chai University, Daejeon, South Korea
- Postdoctoral Research Associate, 2011–2013, University of Maryland

TEACHING EXPERIENCE

- Plant Environmental Physiology Ecology (Graduate Course) – Korea University, 2016 –
- Advanced Protected Horticulture (Graduate Course) – Korea University, 2016 –
- Plant Factory (Controlled Environment for Plant Production) – Korea University, 2016 –
- Plant Propagation Technology – Korea University, 2015 –
- Experimental Analysis and Statistical Analysis (Graduate Course) – Korea University, 2015 –
- Horticultural Plant Science – Pai Chai University, 2013 – 2015
- Horticultural Plant Physiology – Pai Chai University, 2013 – 2015
- Horticultural Plant Propagation – Pai Chai University, 2013 – 2015
- Introduction to Horticulture – Pai Chai University, 2014 – 2015
- Floriculture – Pai Chai University, 2013 – 2015
- Horticultural Seminar – Pai Chai University, 2013 – 2015

AWARDS AND SCHOLARSHIPS

- Best Teaching Award (The Granite Tower Award) 2016, 2017, 2018, 2019
Korea University
- Best Teaching Award September 2014
Pai Chai University
- Best Poster Award June 2014
The 20th World Congress of Soil Science
- 3rd Prize in PhD Oral Presentation Competition January 2011
Southern Nursery Association Research Conference
- Korean Honor Scholarship 2010
US Embassy of the Republic of Korea

PUBLICATIONS**::: Peer-reviewed Scientific Articles**

Kang, S., M.W. van Iersel, and **J. Kim**. 2019. Plant root growth affects FDR soil moisture sensor calibration. *Sci. Hort.* 252:208-211.

Kim, Y., J.W. Hong, and **J. Kim**. 2019. Life satisfaction and the perception of plants are increased by growing indoor plants. *Flower Res. J.* 27:42-50.

Meng, Q. R. Gupta, C.W. Min, **J. Kim**, K. Kramer, Y. Wang, S.-R. Park, I. Finkemeier, S.T. Kim. 2019. A proteomic insight into the MSP1 and flg22 induced signaling in *Oryza sativa* leaves. *J. Proteomics* 196:120-130.

Nam, S., D.-H. Lee, and **J. Kim**. 2018. Effect of substrate volumetric water content on performance of *Ardisia pusilla* grown in indoor conditions. *Flower Res. J.* 26:124-131.

An, H.S., J. Hong, E.J. Jang, A. Lee, and **J. Kim**. 2018. Current status and recognition of floral preservatives in Korean flower shops. *Flower Res. J.* 26:209-215.

Meng Q., R. Gupta, C.W. Min, **J. Kim**, K. Kramer, Y. Wang, S.R. Park, I. Finkemeier. And S.T. Kim. 2018. Label-free quantitative proteome data associated with MSP1 and flg22 induced signaling in rice leaves. *Data in Brief* 20:2014-209.

Trinh, C.S., H. Lee, W.J. Lee, S.J. Lee, N. Chung, J. Han, **J. Kim**, S.-W. Hong, and H. Lee. 2018. Evaluation of the plant growth-promoting activity of *Pseudomonas nitroreducens* in *Arabidopsis thaliana* and *Lactuca sativa*. *Plant Cell Rep.* 37:873-885.

Jeong C.Y., J.H. Kim, W.J. Lee, J.Y. Jin, **J. Kim**, S.-W. Hong, and H. Lee. 2018. AtMyb56 regulates anthocyanin levels via the modulation of *AtGPT2* expression in response to sucrose in *Arabidopsis*. *Molecules Cells* 41:351-361.

Chung, Y.S., **J. Kim**, and C. Kim. 2018. Breeding of lignocellulosic bioethanol feedstock. *J. Crop Sci. Biotechnol.* 21:1-12.

Sang, M.K. J.-J. Jeong, **J. Kim**, and K.D. Kim. 2018. Growth promotion and root colonisation in pepper plants by phosphate-solubilising *Chryseobacterium* sp. strain ISE14 that suppresses *Phytophthora* blight. *Ann. Appl. Biol.* 172:208-223.

Rhie, Y.H., S. Kang, J.M. Choi, and **J. Kim**. 2018. Physical and chemical properties of bottom ash and coir dust mix used as horticultural substrates. *Kor. J. Hort. Sci. Technol.* 35:161-171.

Rhie, Y.H., S. Kang, D.C. Kim, and **J. Kim**. 2018. Production traits of garden mums subjected to various substrate water contents at a commercial production farm. *Hort. J.* 87:389-394.

- Rhie, Y.H., S. Kang, and **J. Kim**. 2017. Substrate water content influences the flowering of *Doritaenopsis* Queen Beer 'Mantefon'. HortScience 52:1823-1828.
- Park, H., E. Jang, and **J. Kim**. 2017. Cognitive reactions and emotional effects on table floral decorations in party catering. J. People Plants Environ. 20:45-53.
- Yun, E.S., C.H. Pak, and **J.Y. Kim**. 2017. Effect of English lessons with horticultural activities on interest and confidence of English study of elementary school students. J. Kor. Floral Art Design 36:59-71.
- Rhie, Y.H. and **J. Kim**. 2017. Changes in physical properties of various coir dust and perlite mixes and their capacitance sensor VWC calibrations. HortScience 52:162-166.
- Rhie, Y.H.* , **J. Kim***, S.Y. Lee, and K.S. Kim. 2016. Non-deep simple morphophysiological dormancy in seeds of heavenly bamboo (*Nandina domestica* Thunb.). Sci. Hort. 210:180-187. (*co-first author)
- Kim, H.J.* , **J. Kim***, D.L. Yun, K.S. Kim, and Y.J. Kim. 2016. Growth and flowering of *Doritaenopsis* Queen Beer 'Mantefon' as affected by different potting substrates. Hort. J. 85:360-365. (*co-first author)
- Kwon, M.H., **J. Kim**, C. Seo, C.W. Lee, E.J. Jang, and W.-K. Lee. 2016. Education programs in public children's gardens in the United States. HortTechnology 26:70-82.
- Kwon, M.H., C. Seo, **J. Kim**, M. Kim, C.H. Pak, and W.-K. Lee. 2015. Current status of children's gardens within public gardens in the United States. HortTechnology 25:671-680.
- Oh, J.H., B.H. Min, D.C. Kim, and **J. Kim**. 2015. Effect of pinching and daminozide spray on growth and flowering of two garden mum cultivars 'Candy Ball' and 'Fancy Ball'. Flower Res. J. 23:144-150.
- Kim, J.** 2014. Efficient irrigation through soil moisture sensor based automated irrigation system in ornamental plant production. Flower Res. J. 22: 48-53.
- Starry, O., J.D. Lea-Cox, **J. Kim**, and M.W. van Iersel. 2014. Photosynthesis and water use by two *Sedum* species in green roof substrate. Environ. Exp. Bot. 107:105-112
- Kim, S.J., C.H. Lee, **J. Kim**, and K.S. Kim. 2014. Phylogenetic analysis of Korean native *Chrysanthemum* species based on morphological characteristics. Sci. Hort. 175: 278-289.
- Kim, S., T. Ha, **J. Kim**, D. Chang, and K. Kim. 2014. Classification of Korean *Chrysanthemum* species based on volatile compounds using cluster analysis and principal component analysis. J. Kor. Soc. Appl. Biol. Chem. 57:789-796.

Kim, S.J., T.J. Ha, **J. Kim**, J.H. Nam, D.L. Yoo, J.T. Suh, and K.S. Kim. 2014. Volatile flavor compounds in the leaves of fifteen taxa of Korean native *Chrysanthemum* species. *Kor. J. Hort. Sci. Technol.* 32:558-570.

Kim, J., J.D. Lea-Cox, M. Chappell, and M.W. van Iersel. 2014. Wireless sensors networks for optimization of irrigation, production, and profit in ornamental production. *Acta Hort.* 1037:643-649.

Jang H.S., **J. Kim**, K.S. Kim, C.H. Pak. 2014. Human brain activity and emotional responses to plant color stimuli. *Color Res. Appl.* 39:307-316.

Yang, E-M, H-M. Kang, J-M. Kim, **J. Kim**, H-S. Jang, and C.H. Pak. 2013. Changes in perceived colors of cut roses under florist shop lighting. *J. Jpn. Soc. Hort. Sci.* 82:170-178.

Kim, J., A. Malladi, and M.W. van Iersel. 2012. Physiological and molecular responses to drought in *Petunia*: the importance of stress severity. *J. Exp. Bot.* 63:6335-6345.

Kim, J., S.W. Kang, C.H. Pak, and M.S. Kim. 2012. Changes in leaf variegation and coloration of English ivy and polka dot plant under various indoor light intensity. *HortTechnology* 22:49-55.

Kim, J. and M.W. van Iersel. 2011. Slowly-developing drought stress increases photosynthetic acclimation of *Catharanthus roseus*. *Physiol. Plant.* 143:166-177.

Kim, J., M.W. van Iersel, and S. Burnett. 2011. Estimating daily water use of two petunia cultivars based on plant and environmental factors. *HortScience* 46:1287-1293.

Kim, J. and M.W. van Iersel. 2011. Abscisic acid drenches can reduce water use and extend shelf life of *Salvia splendens*. *Scientia Hort.* 127:420-423.

Ogden, A.B., **J. Kim**, C.A. Radcliffe, M.W. van Iersel, L.A. Donovan, A. Sugiyama. 2011. Leaf and bud temperatures of southern highbush blueberries (*Vaccinium corymbosum*) inside high tunnels. *Acta Hort.* 893:1319-1325.

Suh, J.N., **J.Y. Kim**, and C.H. Pak. 2005. Differences in ornamental plant names between "Glossary and Dictionary of Plant Names for Horticultural Crops" and "Standard Korean Dictionary". *J. Kor. Flower Res. Soc.* 13(3):232-238.

::: Books

K.Y. Baik, Ko, J.A., S.S. Kwack, **J. Kim**, C.G. Kim, H.H. Kim, K.Y. Park, S.Y. Park, S.C. Park, J.Y. Yoo, C.Y. Yoo, J.G. Yoon, G.J. Lee, S.I. Jeon, M. Jeong, B.R. Jeong, B.H. Han, J.H. Han, N.I. Hyung. 2016. *Plant Biotechnology*. Hyangmunsa.

Kim M.S., **J. Kim**, J.N. Suh. 2014. *New Ornamental Plants*. Bumin Publishing.