

JIHOON (JAMES) KANG

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A. Professional Preparation

Kyunghee University	Environmental Science	B.S., 2001
Pennsylvania State University	Environmental Pollution Control	M.E.P.C., 2003
North Carolina State University	Soil Science (minor in Ag Engineering)	Ph.D., 2007

B. Appointments

2015 - present	Assistant Professor, University of Texas Rio Grande Valley
2014 - 2015	Assistant Professor, University of Texas-Pan American
2013 - 2014	Postdoctoral Scholar, North Carolina State University
2011 - 2012	Research Scientist, Kolon Global R&D Center
2008 - 2010	Research Associate, North Carolina State University

C. Academic Interests

1. Fate and transport of nutrients and contaminants in plant-soil-water system and watershed
2. Stormwater management (impacts of soil disturbance in soil health and water/air quality, erosion & sediment control, and low impact development)
3. Soil and water remediation (compost, biochar and other agro-industrial & municipal waste materials toward soil amendment and contaminant removal)
4. Water technology, innovation and sustainability (nutrient & energy recovery, reclaimed water reuse, and constructed wetland)
5. Experiential learning in earth and environmental sciences

D. Publications

(i) Five most recent journal publications (* denotes student author)

1. Mireles, S.*, Y. Ok, C. Cheng, and J. Kang. 2016. Adsorptive and kinetic characterization of aqueous zinc removal by biochars. *SDRP Journal of Earth Sciences and Environmental Studies* 1(3): 1-7.
2. Kang, J., J.D. Wiseman, M.A. Welch*, and R.A. McLaughlin. 2016. Chemical flocculation for removing bentonite spills in water. *International Journal of Agriculture and Environmental Research* 2(4): 726-739.
3. Kang, J., and McLaughlin, R.A., 2016. Simple systems for treating pumped, turbid water with flocculants and a geotextile dewatering bag. *Journal of Environmental Management* 182:208-213.
4. Kang, J., S.E. King, and R.A. McLaughlin. 2016. Flocculated sediments can reduce the size of sediment basin at construction sites. *Journal of Environmental Management* 166:450-456.
5. Kang, J., R.A. McLaughlin, A. Amoozegar, J.L. Heitman, and O.W. Duckworth. 2015. Transport of dissolved polyacrylamide through a clay loam soil. *Geoderma*, 243-244:108-114.

(ii) Five most recent presentations (* denotes student author)

1. Kang, J. and R.A. McLaughlin. 2016. Passive treatment of bentonite slurry using coagulants and flocculants. 66th Gulf Coast Association of Geological Societies Annual Convention. September 18-20, 2016. Corpus Christi, TX.
2. Kang, J., and S. Mireles*. 2016. Potential of biochar as a filter media for stormwater applications. 18th Annual Lower Rio Grande Valley Water Quality Management & Planning Conference. May 19-23, 2015. South Padre Island, TX.
3. Kang, J. 2016. Turbidity reduction of construction site runoff using synthetic and biopolymers. 119th Annual Meeting of the Texas Academy of Science. March 4-6, 2016. Junction, TX.
4. Kang, J., 2015. Urban soil compaction and management practices in municipal parks. Annual LRGV Municipal Parks Stormwater Management Mini-Conference Using Low Impact Development and Green Infrastructure, Weslaco, TX (11/13/2015).
5. Downs, S.*, S. Mireles*, Y. Ok, C. Cheng, and J. Kang. 2015. Biochar as a filter media for stormwater treatment. StormCon. Aug 2-6, 2015. Austin, TX.

E. Synergistic Activities

- GLOBE Scientist
- Vice Chair of Environmental Science Section at the Texas Academy of Sciences
- Peer reviewer for Geoderma, Pedosphere, Journal of Environmental Management, and Energy Conversion and Management.

F. Teaching Courses

- Physical Geology, GEOL 1401 (F2014, S2015, S2016)
- Environmental Geology, GEOL 4302 (F2014, F2015)
- Special Topics in Geology: Environmental Soil Science, GEOL 4385 (S2015)
- Topics in Environmental Science: Soil and Water Remediation, ENVR 4370 (F2015)
- Introduction to Environmental Science II, ENVR1402 (S2016)

G. Student Research Mentoring

2015-present Mireles, S. (UTRGV graduate student under Kang; *thesis committee chair*)

2015-2016 Lopez, A., Davila, M., Cortez, J. (UTRGV undergrad research student)

2014-2015 Downs, S., Mireles, S. (UTPA undergrad research student)

SUMMARY OF SCHOLARLY ACTIVITIES

Referred Journal Articles	17	Invited Presentations & Lectures	11
Non-Peer Reviewed Papers, Magazine articles, and Technical Reports	11	Professional Abstract & Presentations	36