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Department of Civil and Environmental Engineering,
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Education and Training:

Institution	Major	Degree	Year
National Cheng-Kung University Tainan, Taiwan	Hydraulic Engineering	B.S.	1984
National Taiwan University, Taipei, Taiwan	Agricultural Engineering	M.S.	1986
University of Arizona, Tucson, Arizona	Hydrology/Water Res.	Ph.D.	1996

Research and Professional Experience:

2012-Present	Associate Professor in Residence , Department of Civil and Environmental Engineering, University of California, Irvine
2007-2012	Associate Adjunct Professor , Department of Civil and Environmental Engineering, University of California, Irvine
2003-2007	Assistant Adjunct Professor , Department of Civil and Environmental Engineering, University of California, Irvine
2002-2003	Adjunct Assistant Professor , Department of Hydrology and Water Research, University of Arizona
1999-2002	Assistant Research Scientist , Department of Hydrology and Water Research, University of Arizona

Publications:

1. Miao, C, H. Ashouri, **K. Hsu**, S. Sorooshian, and Q. Duan, Evaluation of the PERSIANN-CDR Daily Rainfall Estimates in Capturing the Behavior of Extreme Precipitation Events over China, *Journal of Hydrometeorology*, 2015. (Accepted).
2. Jaw, T. J., J. Li, **K. Hsu**, S. Sorooshian, and F. Driouech, Evaluation for Moroccan Dynamically-Downscaled Precipitation from GCM CHAM5 and Its Regional Hydrologic Response, *Journal of Hydrology: Regional Studies*, 3, 359-378, 2015.
3. Ashouri, H., **K. Hsu**, S. Sorooshian, D. Braithwaite, PERSIANN-CDR: 33-year Multi-satellite High Resolution Global Daily Precipitation Data Record for Climate Studies, *Bulletin of American Meteorological Society*, 96, 69-83, 2015.
4. **Hsu, K.**, S. Sellars, P. Nguyen, D. Braithwaite, and W. Chu, G-WADI PERSIANN-CCS GeoServer for Extreme Event Analysis, *Sciences in Cold and Arid Regions*, 5(1), 6-15, 2013.
5. Zahraei, A., **K. Hsu**, S. Sorooshian, J.J. Gourley, Y. Hong, and A. Behrangi. Short-term Quantitative Precipitation Forecasting Using An Object-based Approach. *Journal of Hydrology*. 483, 1-15, 2013.
6. Nasrollahi, N., **K. Hsu**, and S. Sorooshian, Reducing False Alarm in Satellite Precipitation Products, *Journal of Hydrometeorology*, 14(4), 2013
7. Sorooshian, S., J. Li, **K. Hsu**, and X. Gao, Influence of Irrigation Scheme Used in RCMs on ET Estimation: Results and Comparative Studies from California's Central Valley Agricultural Regions,

Journal of Geophysical Research, 117, D06107, 2012

8. **Hsu, K.**, Hydrological Forecasting using ANN: A Sequential Bayesian Approach, Journal of Hydroinformatics, 13(1), 25-35, 2011.
9. **Hsu, K.**, J. Li, and S. Sorooshian, 2011: Improve soil moisture estimation in arid/semi-arid region using In-situ and remote sensing information. Paddy and Water Environment Journal, DOI10.1007/s10333-011-0308-9.
10. Sorooshian, S., J. Li, **K. Hsu**, and X. Gao, How Significant Is the Impact of Irrigation on the Local Hydroclimate in California? Central Valley's Comparison of Model Results with Ground and Observational Data, Journal of Geophysical Research, 116, D06102, 2011

Synergistic Activities:

1. Editorial and Conferences

Associate Editor, Journal of Hydrometeorology, 2008—2013

Associate Editor, Water Resources Research, 2011-2013.

Editor, Hydrological Modeling and The Water Cycle—Coupling the Atmospheric and Hydrologic Models, *Edited by S. Sorooshian, K Hsu, E. Coppola, B. Tomassetti, M. Verdecchia, and G. Visconti, Springer Publishing Company, 2008, ISBN# 978-3-540-77842-4.*

Convener, Artificial Intelligence for Hydrological Modeling and Hydrosystems Management, AGU Fall Meeting, San Francisco, CA, 15-19, December, 2008.

Convener, Artificial Intelligent Techniques for Nature Hazards Forecasting, AGU Fall Meeting, San Francisco, CA, 14-18, December, 2009.

Convener, Hydraulic Extremes: monitoring, Diagnosis, & Prediction, AGU Fall Meeting, San Francisco, CA, 13-17, December, 2010.

Convener, Emerging Computational and Optimization Approaches for Hydro-Environmental Systems Modeling and Management, AGU Fall Meeting, San Francisco, CA, 13-17, December, 2010.

Teaching: Operations Research (1999), Precipitation analysis (1999); Stochastic Hydrology (2002), Introduction to Fluid Mechanics (2003-2010); Remote Sensing Hydrology (2011-2014); Statics (2013-2015).

2. Honors and Awards

2015 NASA Robert H. Goddard Exceptional Achievement Award in Science

A team award for developing outstanding precipitation retrieval algorithm to support the Global Precipitation Measurement (GPM) mission

3. Membership: American Geophysics Union (AGU); American Meteorological Society (AMS)