Amir AghaKouchak, PhD, PE

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Current Position

Associate Professor, University of California, Irvine

Professional Licensure

Professional Licensed Civil Engineer in the State of California (License Number: 78586).

Education

PhD, Civil and Environmental Engineering, University of Stuttgart, Germany, 2010

Dissertation: Simulation of remotely sensed rainfall fields using copulas

MSc, Civil Engineering - Water Resources, K.N.Toosi University of Technology, Tehran, Iran, 2005

BSc, Civil Engineering (Major: Water Resources), K.N.Toosi University of Technology, Tehran, Iran, 2003

Academic Experience

Associate Professor, University of California, Irvine, Irvine, CA, Jul. 2016 - present.

Assistant Professor, University of California, Irvine, Irvine, CA, Jul. 2011 - Jun. 2016.

Postdoctoral Associate, University of California, Irvine, Irvine, CA, Jan. 2010 - Jun. 2011.

Visiting Scholar, University of Louisiana at Lafayette, Lafayette, LA, Dec. 2007 - Oct. 2009.

Graduate Student, University of Stuttgart, Stuttgart, Germany, Oct. 2005 - Nov. 2009.

Honors & Awards

AGU Hydrologic Sciences Early Career Award, 2017

IAHS/STAHY Best Paper Award" for 2017 (Cheng, L., Aghakouchak, A. Nonstatlonary precipitation intensity-duration-frequency curves for infrastructure design in a changing climate (2014) Scientific Reports, 4, art. no. 7093).

Outstanding ASCE Faculty Advisor, 2016

Editors' Citation for Excellence in Refereeing for Geophysical Research Letters, 2016

Orange County Engineering Council (OCEC) Distinguished Educator Award, 2016

ASCE Outstanding Reviewer, 2016

United States Frontiers of Engineering (FOE), National Academy of Engineering (NAE) of the National Academies, 2014, ("*The FOE program brings together a select group of emerging engineering leaders from industry, academe, and government labs to discuss pioneering technical work and leading edge research in various engineering fields and industry sectors*").

Early Career Innovation in Teaching Award (2014-15).

Hellman Fellowship Award (2013-14).

Frontiers of Engineering Education (FOEE) Award, National Academy of Engineering (NAE) of the National Academies. 2012, ("*The FOEE program brings together some of the nation's most engaged and innovative engineering educators in order to recognize, reward, and promote effective, substantive, and inspirational engineering education through a sustained dialogue within the emerging generation of innovative faculty*").

World Climate Research Programme (WCRP) award to support participation and oral presentation in the WCRP Workshop on Drought Predictability and Prediction in a Changing Climate, March 2-4, 2011, Barcelona, Spain.

National Oceanic and Atmospheric Administration (NOAA) Educational Partnership Program Award, 2009.

Selected Grants & Projects

Total funding: **PI: $3,273,049**; Co-PI/Co-I: $22,018,698

21. Title: Advancing Drought Onset Detection and Seasonal Prediction Using a Composite of NASA Models and Satellite Data
    Agency: **NASA**; Dates: 12/1/14-11/30/18
    Funding: $1,172,549; PI: **Amir AghaKouchak**; Co-Is: S Sorooshian, K Hsu

20. Title: Collaborative Research: Resilience of Geotechnical Infrastructure under a Changing Climate: Quantitative Assessment for Extreme Events
    Agency: **NSF-Engineering for Natural Hazards (ENH)**; Dates: 9/1/16-8/31/19
    UCI Funding: $240,000; UCI PI: **Amir AghaKouchak**, (Collaborating with PI Vahedifard, Mississippi State University).

19. Title: INFEWS: Monitoring and managing food, energy, and water systems under stress: The California crucible

Agency: **NSF - Innovations at the Nexus of Food, Energy and Water Systems**; Dates: 09/1/16-8/31/21
Funding: $2,887,140; PI: Steven Davis; Co-PIs: **Amir AghaKouchak**, Jack Brouwer, Jennifer Burney, Frances Moore

18. Title: Weather Augmented Risk Determination System (WARDS)
Agency: **NSF - Innovation Corps (I-Corps)**; Dates: 7/1/17-1/30/18
Funding: $50,000; PI: **Amir AghaKouchak**

17. Title: A Multi-Hazard Investigation of Climate Vulnerability of the Natural Gas Energy System in Southern California
Agency: **California Energy Commission (CEC)**; Dates: 08/1/16-7/31/18
Funding: $900,000; PI: **Amir AghaKouchak**, Co-Investigators: Kuolin Hsu, Jack Brouwer ($300K Subcontract to UCLA)

16. Title: Improving Hydrologic and Energy Demand Forecasts for Hydropower Operations with Climate Change
Agency: **California Energy Commission (CEC)**; Dates: 04/1/16-3/30/20
Funding: $720,000; PI: Soroosh Soroosian, Co-Investigators: Kuolin Hsu, **Amir AghaKouchak**.

15. Title: Improving hydrologic and energy demand forecasts for hydropower operations with climate change
Agency: **Department of Energy**; Dates: 10/1/15-9/30/20
Funding: $7,893,386; PI: Soroosh Sorooshian, Co-Investigators: Scott Samuelsen, Kuolin Hsu, Jack Brouwer, Tiantian Yang, **Amir AghaKouchak**.

14. Title: Codevelopment of Modeling Tools to Manage Sediment for Sustainable and Resilient Coastal Lowland Habitat in Southern California
Agency: **NOAA**; Dates: 01/1/17-12/31/20
Funding: $1,150,000; PI: Brett Sanders; Investigators: **Amir AghaKouchak**, Richard Matthew, Eric Stein

13. Title: A Nested Multi-Scale Hydrological Modeling Framework: Assessing Resilience and Vulnerability to Climate Change
Agency: **NSF-Hydrological Sciences**; Dates: 9/1/13-8/31/16
Funding: $225,000; PI: **Amir AghaKouchak**

12. Title: Advancing Drought Monitoring and Prediction Using a Multi-Index Multivariate Framework
Agency: **NOAA**; Dates: 9/1/14-8/31/17
Funding: $440,000 (UCI's share: $247,000); Lead PI: **Amir AghaKouchak**; Co-PIs: Andy Wood, Mark Svoboda

11. Title: Drought Emergency Seasonal Forecasting via Conditional Analog Year
Agency: **CA Dept. of Water Resources**; Dates: 10/1/14-5/31/15
Funding: $134,599; PI: **Amir AghaKouchak**

10. Title: Frameworks for Analysis of Regional, Concurrent, Conditional and Non-Stationary Extremes in Geosciences
    Agency: **ARL**; Dates: 12/1/14-8/31/15
    Funding: $50,000; PI: **Amir AghaKouchak**

9. Title: Drought Monitoring Using NASA Atmospheric Infrared Sounder (AIRS) Data
    Agency: **NASA**; Dates: 10/1/14-9/30/15
    Funding: $54,000; PI: **Amir AghaKouchak**

8. Title: Global Integrated Drought Monitoring and Prediction System
    Agency: **NSF - Innovation Corps (I-Corps)**; Dates: 10/1/13-9/30/14
    Funding: $50,000; PI: **Amir AghaKouchak**

7. Title: Building a Climate Change Resilient Electricity System for Meeting California's Energy and Environmental Goals
    Agency: **California Energy Commission (CEC)**; Dates: 07/1/15-6/30/18
    Funding: $698,792; PI: Scott Samuelsen; Co-Investigators: **Amir AghaKouchak**, Brian Tarroja, David Feldman, Brendan P. Shaffer, Kaveh Madani

6. Title: Hazards SEES Type 2: Preventing Flood Hazards from Becoming Disasters through Two-Way Communication of Parcel-Level Flood Risk
    Agency: **NSF**; Dates: 09/1/14-8/31/17
    Funding: $2,819,380; PI: Brett Sanders; Investigators: **Amir AghaKouchak**, Victoria Basolo, John Houston, Richard Matthew, James Famiglietti

5. Title: Low Energy Options for Making Water from Wastewater
    Agency: **NSF**; Dates: 10/1/12-9/30/17
    Funding: $4,900,000; PI: Stanley Grant; Investigators: **Amir AghaKouchak**, R Ambrose, P Bowler, B Cooper, R Detwiler, S Elghobashi, D Feldman, S Jiang, R Lejano, L Levin, M McBride, M Prather, J.D. Saphores, D Rosso, B Sanders, A Sengupta, E Stein, M Sutula, W Tang, K Treseder, J Vrugt, R Brown, P Cook, A Deletic, T Fletcher, A Hamilton, I Marusic, D McCarthy, M Stewardson, A Western

4. Title: Analysis of Weather and Climate Extremes Using AIRS Satellite Data
    Agency: **NASA**; Dates: 5/1/13-4/30/14
    Funding: $53,901; PI: **Amir AghaKouchak**

3. Title: Quantifying Climate Projections Uncertainty Using a Non-Gaussian Model and an Adaptive Weighting Ensemble Algorithm: Application to Water Resources Management
    Agency: **USBR**; Dates: 9/1/11-8/31/13
    Funding: $200,000; PI: **Amir AghaKouchak**; Co-PI: Jialun Li

2. Title: Improving near real-time high-resolution satellite-derived precipitation estimation for hydrologic modeling and decision-making applications
    Agency: **ARL**; Dates: 10/1/11-9/30/13
    Funding: $670,000; PI: Soroosh Sorooshian; Co-PIs: **Amir AghaKouchak**, Kuolin Hsu, Xiaogang Gao

1. Title: Impacts of Global Climate Change (GCC) on the Water Resources of Morocco
   Agency: **World Bank**; Dates: 8/1/11-12/31/12
   Funding: $240,000; PI: Soroosh Sorooshian; Co-PIs: **Amir AghaKouchak**, Jialun Li

Editorial

Editor, ***Earth's Future*** (American Geophysical Union, AGU), 2016-present.

Editorial Board Member, ***Scientific Reports*** (Nature Publishing Group), 2015-present.

Editorial Board Member, ***Scientific Data*** (Nature Publishing Group), 2014-present.

Associate Editor, ***Journal of Hydrology*** (ASCE), 2017-present.

Associate Editor, ***Journal of Hydrologic Engineering*** (ASCE), 2016-present.

Patent

Weather Augmented Risk Determination System (WARDS), United States Pending Patent, Niknejad M, Mazdiyasni O., Momtaz F., **AghaKouchak A.**, 2016.
Selected as a 2017 National Science Foundation (NSF) Innovation Corps (I-Corps).

Publications

Journal Publications *(Students and Postdocs Underlined)*

100. Lima C., **AghaKouchak A.**, 2018, Droughts in Amazonia: Spatiotemporal Variability, Teleconnections, and Seasonal Predictions, *Water Resources Research*, doi: 10.1002/2016WR020086.

99. Papalexiou S., **AghaKouchak A.**, Trenberth, K., Foufoula-Georgiou, E., 2018, Global, Regional and Megacity Trends in the Highest Temperature of the Year: Diagnostics and Evidence for Accelerating Trends, ***Earth's Future***, in press.

98. Moftakhari H.M., Salvadori G., **AghaKouchak A.**, Sanders, B.F., Matthew, R.A., 2017, Compounding Effects of Sea Level Rise and Fluvial Flooding, ***Proceedings of the National Academy of Sciences***, 114 (37), 9785-9790, doi: 10.1073/pnas.1620325114.

97. Mazdiyasni O., **AghaKouchak A.**, Davis S.J., Madadgar S., Mehran A., Ragno E., Sadegh M., Sengupta A., Ghosh S., Dhanya C.T., Niknejad M., 2017, Increasing Probability of Mass-Mortality during Indian Heatwaves, ***Science Advances***, 3 (6), e1700066, doi: 10.1126/sciadv.1700066.

96. Moftakhari H.M., **AghaKouchak A.**, Sanders, B.F., Matthew, R.A., Mazdiyasni O., 2017, ranslating Uncertain Sea Level Projections into Infrastructure Impacts Using a Bayesian Framework, ***Geophysical Research Letters***, doi: 10.1002/2017GL076116.

95. Madadgar S., **AghaKouchak A.**, Davis S., Farahmand A., 2017, Probabilistic Estimates of Drought Impacts on Agricultural Production, ***Geophysical Research Letters***, 44 (16), 7799-7807, doi: 10.1002/2017GL073606.

94. Sadegh M., Ragno E., **AghaKouchak A.**, 2017, Multivariate Copula Analysis Toolbox (MvCAT): Describing Dependence and Underlying Uncertainty Using a Bayesian Framework, ***Water Resources Research***, 53 (6), 5166-5183, doi: 10.1002/2016WR020242.

93. Lima C., **AghaKouchak A.**, Randerson J., 2017, Unraveling the Role of Temperature and Rainfall on Active Fires in the Brazilian Amazon Using a Nonlinear Poisson Model, *Journal of Geophysical Research*, in press.

92. Wahl T., Ward P., Winsemius H., **AghaKouchak A.**, Bender J., Haigh I., Jain S., Leonard M., Veldkamp T., Westra S., 2017, Hydrologic Compound Events: Unappreciated Hazards, ***Eos, Transactions American Geophysical Union***, in press.

91. Sun A., Scanlon B., **AghaKouchak A.**, Zhang Z., 2017, Using GRACE Satellite Gravimetry for Assessing Large-Scale Hydrologic Extremes, ***Remote Sensing***, in press.

90. Ashraf B., **AghaKouchak A.**, Alizadeh A., Mousavi- Baygi M., Moftakhari H.R., Mirchi A., Anjileli H., Madani K., 2017, Quantifying Anthropogenic Stress on Groundwater Resources, ***Scientific Reports***, 7, 12910, doi: 10.1038/s41598-017-12877-4.

89. Sun Q., Miao C., **AghaKouchak A.**, Duan Q., 2017, Unraveling Anthropogenic Influence on the Changing Risk of Heat Waves in China, ***Geophysical Research Letters***, 44 (10), 5078-5085, doi: 10.1002/2017GL073531.

88. Lima C., **AghaKouchak A.**, Lall M., 2017, Classification of Mechanisms, Climatic Context, Areal Scaling, and Synchronization of Floods: The Hydroclimatology of Floods in the Upper Paraná River basin, Brazil, ***Earth System Dynamics***, 8, 1-21, doi: 10.5194/esd-8-1-2017.

87. Mehran A., **AghaKouchak A.**, Nakhjiri N., Stewardson MJ, Peel M., Phillips T.J., Wada Y., Ravalico J.K., 2017, Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability, ***Scientific Reports***, 7, 6282, doi: 10.1038/s41598-017-06765-0.

86. Vahedifard F., **AghaKouchak A.**, Ragno E., Shahrokhabadi S., Mallakpour I., 2017, Lessons from the Oroville Dam, ***Science***, 355 (6330), 1139-1140, doi: 10.1126/science.aan0171.

85. Sadegh M., Pierce J., **AghaKouchak A.**, Glenn N., Curl C., 2017, Will clean air fade into the future?, ***Eos, Transactions American Geophysical Union***, in press.

84. Moftakhari H.M., **AghaKouchak A.**, Sanders, B.F., Matthew, R.A., 2017, Cumulative Hazard: The Case of Nuisance Flooding, ***Earth's Future***, 5 (2), 214-223, doi: 10.1002/2016EF000494.

83. Panda D.K., **AghaKouchak A.**, Ambast S.K., 2017, Increasing Heat Waves and warm Spells in India, Observed from a Multi-Aspect Framework, ***Journal of Geophysical Research***, 122 (7), 3837-3858, doi: 10.1002/2016JD026292.

82. Luke A., Vrugt J.A., **AghaKouchak A.**, Matthew, R.A., Sanders, B.F., 2017, Predicting Non-Stationary Flood Frequencies: Evidence Supports an Updated Stationarity Thesis in the United States, ***Water Resources Research***, 53, doi: 10.1002/2016WR019676.

81. Nguyen P., Thorstensen A., Sorooshian S., Hsu K., **Aghakouchak A.**, Ashouri H., Tran H., Braithwaite D., 2016, Global Precipitation Trends across Spatial Scales Using Satellite Observations, ***Bulletin of the American Meteorological Society***, doi: in press.

80. Basha G., Kishore P., Venkat Ratnam M., Jayaraman A., **AghaKouchak A.**, Ouarda T.B.M.J., Velicogna I., 2017, Historical and Projected Surface Temperature over India during the 20th and 21st century, ***Scientific Reports***, 7, 2987, doi:10.1038/s41598-017-02130-3.

79. Vahedifard F., Tehrani F., Galavi V., Ragno E., **AghaKouchak A.**, 2017, Resilience of MSE Walls with Marginal Backfill under a Changing Climate: Quantitative Assessment for Extreme Precipitation Events, ***Journal of Geotechnical and Geoenvironmental Engineering***, 143 (9), 04017056, doi: 10.1061/(ASCE)GT.1943-5606.0001743.

78. Vinnarasi R., Dhanya C.T., Chakravorthy A., **AghaKouchak A.**, 2017, Unravelling Diurnal Asymmetry of Surface Temperature in Different Climate Zones, ***Scientific Reports***, 7, 7350, doi: 10.1038/s41598-017-07627-5.

77. Hardin E., **AghaKouchak A.**, Qomi M.J.A., Madani K., Tarroja B., Zhou Y., Yang T., Samuelsen S., 2017, California Drought Increases CO2 Footprint of Energy, ***Sustainable Cities and Society***, 28, 450-452, doi: 10.1016/j.scs.2016.09.004.

76. Robinson J.D., Vahedifard F., **AghaKouchak A.**, 2017, Rainfall-Triggered Slope Instabilities under a Changing Climate: Comparative Study Using Historical and Projected Precipitation Extremes, ***Canadian Geotechnical Journal***, 54 (1), 117-127, doi: 10.1139/cgj-2015-0602.

75. Turco M., von Hardenberg J., **AghaKouchak A.**, Llasat M.C., Provenzale A., Trigo R.M., 2017, On the Key Role of Droughts in the Dynamics of Summer Fires in Mediterranean Europe, ***Scientific Reports***, 7 (1), 81, doi: 10.1038/s41598-017-00116-9.

74. Vahedifard F., **AghaKouchak A.**, Jafari N.H., 2016, Compound Hazards Yield Louisiana Flood, ***Science***, 353 (6306), 1374, doi: 10.1126/science.aaj1468.

73. Madadgar S., **AghaKouchak A.**, Shukla S., Wood A.W., Cheng L., Hsu K., Svoboda M., 2016, A Hybrid Statistical-Dynamical Drought Prediction Framework: Application to the Southwestern United States, ***Water Resources Research***, 52 (7), 5095-5110, doi: 10.1002/2015WR018547.

72. Sun Q., Miao C., **AghaKouchak A.**, Duan Q., 2016, Century-Scale Causal Relationships between Global Dry/Wet Conditions and the State of the Pacific and Atlantic Oceans, ***Geophysical Research Letters***, 43 (12), 6528-6537, doi: 10.1002/2016GL069628.

71. Nguyen P., Sorooshian S., Thorstensen A., Tran H., Huynh P., Pham T., Braithwaite D., Hsu K., **Aghakouchak A.**, Ashouri H., 2016, Exploring Trends through RainSphere: Research Data Transformed into Public Knowledge, ***Bulletin of the American Meteorological Society***, doi: 10.1175/BAMS-D-16-0036.1.

70. Cheng L., Hoerling M., **AghaKouchak A.**, Livneh B., Quan X.-W., Eischeid J., 2016, How Has Human-Induced Climate Change Affected California Drought Risk?, ***Journal of Climate***, 29 (1), 111-120, doi: 10.1175/JCLI-D-15-0260.1.

69. Vandenberg-Rodes A., Moftakhari H.M., **AghaKouchak A.**, Shahbaba B., Sanders, B.F., Matthew, R.A., 2016, Projecting Nuisance Flooding in a Warming Climate Using Generalized Linear Models and Gaussian Processes, ***Journal of Geophysical Research***, 121 (11), 8008-8020, doi: 10.1002/2016JC012084.

68. Madani K., **AghaKouchak A.**, Mirchi A., 2016, Iran's Socio-Economic Drought: Challenges of a Water-Bankrupt Nation, ***Iranian Studies***, 49 (6), 997-1016, doi: 10.1080/00210862.2016.1259286.

67. Prakash S., Mitra A.K., Pai D.S., **AghaKouchak A.**, 2016, From TRMM to GPM: How Well Can Heavy Rainfall be Detected from Space?, ***Advances in Water Resources***, 88, 1-7, doi: 10.1016/j.advwatres.2015.11.008.

66. Lu X., Zhuang Q., Liu Y., Zhou Y., **AghaKouchak A.**, 2016, A Large-Scale Methane Model by Incorporating the Surface Water Transport, *Journal of Geophysical Research*, 121 (6), 1657-1674, doi: 10.1002/2016JG003321.

65. Nguyen P., Thorstensen A., Sorooshian S., Hsu K., **AghaKouchak A.**, Sanders B., Koren V., Cui Z., Smith M., 2016, A High Resolution Coupled Hydrologic-Hydraulic Model (HiResFlood-UCI) for Flash Flood Modeling, ***Journal of Hydrology***, 541, 401-420, doi: 10.1016/j.jhydrol.2015.10.047.

64. Szabo S., Nicholls R.J., Neumann B., Renaud F.G., Matthews Z., Sebesvari Z., **AghaKouchak A.**, Bales R., Ruktanonchai C.W., Kloos J., Foufoula-Georgiou E., Wester P., New M., Rhyner J., Hutton C., 2016, Making SDGs Work for Climate Change Hotspots, ***Environment: Science and Policy for Sustainable Development***, 58 (6),24-33, doi: 10.1080/00139157.2016.1209016.

63. Vahedifard F., Robinson J.D., **AghaKouchak A.**, 2016, Can Protracted Drought Undermine the Structural Integrity of California's Earthen Levees?, ***Journal of Geotechnical and Geoenvironmental Engineering***, 42 (6), 02516001, doi: 10.1061/(ASCE)GT.1943-5606.0001465.

62. Tarroja B., **AghaKouchak A.**, Samuelsen S., 2016, Quantifying Climate Change Impacts on Hydropower Generation and Implications on Electric Grid Greenhouse Gas Emissions and Operation, ***Energy***, 111, 295-305, doi: 10.1016/j.energy.2016.05.131.

61. Li J., Hsu K., **AghaKouchak A.**, Sorooshian S., 2016, Object-Based Assessment of High-Resolution Satellite Precipitation Products, ***Remote Sensing***, 8 (7), 547, doi: 10.3390/rs8070547.

60. Prakash S., Mitra A.K., **AghaKouchak A.**, Liu Z., Norouzi H., Pai D.S., 2016, A Preliminary Assessment of GPM-Based Multi-Satellite Precipitation Estimates over a Monsoon Dominated Region, ***Journal of Hydrology***, doi: 10.1016/j.jhydrol.2016.01.029.

59. **AghaKouchak A.**, Feldman D., Hoerling M., Huxman T., Lund J., 2015, Recognize Anthropogenic Drought, ***Nature***, 524 (7566), 409-4011, doi:10.1038/524409a.

58. Mazdiyasni O., **AghaKouchak A.**, 2015, Substantial Increase in Concurrent Droughts and Heatwaves in the United States, ***Proceedings of the National Academy of Sciences***, 112 (37), 11484-11489, doi: 10.1073/pnas.1422945112.

57. **AghaKouchak A.**, Farahmand A., Teixeira J., Wardlow B.D., Melton F.S., Anderson M.C., Hain C.R., 2015, Remote Sensing of Drought: Progress, Challenges and Opportunities, ***Reviews of Geophysics***, 53 (2), 452-480, doi: 10.1002/2014RG000456.

56. Vahedifard F., **AghaKouchak A.**, Robinson J.D., 2015, Drought threatens California's levees, ***Science***, 349 (6250), 799, doi: 10.1126/science.349.6250.799-a.

55. Mehran A., Mazdiyasni O., **AghaKouchak A.**, 2015, A Hybrid Framework for Assessing Socioeconomic Drought: Linking Climate Variability, Local Resilience, and Demand, ***Journal of Geophysical Research***, 120 (15), 7520–7533, doi: 10.1002/2015JD023147.

54. Moftakhari H.R., **AghaKouchak A.**, Sanders B.F., Feldman D., Sweet W., Matthew R.A., Luke A., 2015, Increased Nuisance Flooding along the Coasts of the United States Due to Sea-Level Rise: Past And Future, ***Geophysical Research Letters***, 42 (22), 9846-9852, doi:10.1002/2015GL066072.

53. Shukla S., Safeeq M., **AghaKouchak A.**, Guan K., Funk C., 2015, Temperature Impacts on the Water Year 2014 Drought in California, ***Geophysical Research Letters***, 42 (11), 4384-4393, doi: 10.1002/2015GL063666.

52. Askarizadeh A., Rippy M., Fletcher T., Feldman D., Peng J., Bowler P., Mehring A., Winfrey B., Vrugt J., **AghaKouchak A.**, Jiang S., Sanders B., Levin L., Taylor S., Grant S., 2015, From Rain Tanks to Catchments: Use of Low-Impact Development to Address Hydrologic Symptoms of the Urban Stream Syndrome, ***Environmental Science & Technology***, 49 (19), 11264-11280, doi: 10.1021/acs.est.5b01635.

51. **AghaKouchak A.**, Norouzi H., Madani K., Mirchi A., Azarderakhsh M., Nazemi N., Nasrollahi N., Mehran M., Farahmand A., Hasanzadeh E., 2015, Aral Sea Syndrome Desiccates Lake Urmia: Call for Action, ***Journal of Great Lakes Research***, 41 (1), 307-311, doi: 10.1016/j.jglr.2014.12.007.

50. Cheng L., **AghaKouchak A.**, Phillips T., 2015, Non-stationary Return Levels of CMIP5 Multi-Model Temperature Extremes, ***Climate Dynamics***, 44 (11), 2947-2963, doi: 10.1007/s00382-015-2625-y.

49. Nasrollahi N., **AghaKouchak A.**, Cheng L., Damberg L., Phillips T., Miao C., Hsu K., Sorooshian S., 2015, How Well Do CMIP5 Climate Simulations Replicate Historical Trends and Patterns of Meteorological Droughts?, ***Water Resources Research***, 51 (4), 2847-2864, doi: 10.1002/2014WR016318.

48. Cheng L., **AghaKouchak A.**, 2015, A Methodology for Deriving Ensemble Response from Multimodel Simulations, ***Journal of Hydrology***, 522, 49-57, doi: 10.1016/j.jhydrol.2014.12.025.

47. Farahmand A., **AghaKouchak A.**, Teixeira J., 2015, A Vantage from Space Can Detect Earlier Drought Onset: An Approach Using Relative Humidity, ***Scientific Reports***, 5, 8553, doi: 10.1038/srep08553.

46. **AghaKouchak A.**, 2015, A Multivariate Approach for Persistence-Based Drought Prediction: Application to the 2010-2011 East Africa Drought, ***Journal of Hydrology***, 526, 127-135, doi: 10.1016/j.jhydrol.2014.09.063.

45. Farahmand A., **AghaKouchak A.**, 2015, A Generalized Framework for Deriving Nonparametric Standardized Drought Indicators, ***Advances in Water Resources***, 76, 140-145, doi: 10.1016/j.advwatres.2014.11.012.

44. Prakash S., Mitra A.K., **AghaKouchak A.**, Pai D.S., 2015, Error characterization of TRMM Multisatellite Precipitation Analysis (TMPA-3B42) products over India for different seasons, ***Journal of Hydrology***, 529, 1302-1312, doi: 10.1016/j.jhydrol.2015.08.062.

43. Nguyen P., Thorstensen A., Sorooshian S., Hsu K., **AghaKouchak A.**, 2015, Flood Forecasting and Inundation Mapping Using Hiresflood-Uci and Near Real-Time Satellite Precipitation Data: The 2008 Iowa Flood, ***Journal of Hydrometeorology***, 16 (3), 1171-1183, doi: 10.1175/JHM-D-14-0212.1.

42. Norouzi H., Temimi M., **AghaKouchak A.**, Azarderakhsh M., Khanbilvardi R., Shields G., Tesfagiorgis K., 2015, Inferring Land Surface Parameters from the Diurnal Variability of Microwave and Infrared Temperatures, ***Physics and Chemistry of the Earth***, 83/84, 28-35, doi: 10.1016/j.pce.2015.01.007.

41. Golian S., Mazdiyasni O., **AghaKouchak A.**, 2015, Trends in Meteorological and Agricultural Droughts in Iran, ***Theoretical and Applied Climatology***, 119, 679-688, doi: 10.1007/s00704-014-1139-6.

40. Li J., Hsu K., **AghaKouchak A.**, Sorooshian S., 2015, An Object-based Approach for Verification of Precipitation Estimation, ***International Journal of Remote Sensing***, 36 (2), 513-529, doi: 10.1080/01431161.2014.999170.

39. **AghaKouchak A.**, Cheng L., Mazdiyasni O., Farahmand A., 2014, Global Warming and Changes in Risk of Concurrent Climate Extremes: Insights from the 2014 California Drought, ***Geophysical Research Letters***, 41 (24), 8847-8852, doi: 10.1002/2014GL062308.

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29. Tabari H., **AghaKouchak A.**, Willems P., 2014, A Perturbation Approach for Assessing Trends in Precipitation Extremes across Iran, ***Journal of Hydrology,*** 519, 1420-1427, doi: 10.1016/j.jhydrol.2014.09.019.

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22. Mehran A., **AghaKouchak A.**, 2014, Capabilities of Satellite Precipitation Datasets to Estimate Heavy Precipitation Rates at Different Temporal Accumulations, ***Hydrological Processes***, 28, 2262-2270, doi: 10.1002/ hyp.9779.

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15. **AghaKouchak A.**, Nakhjiri N., 2012, A Near Real-Time Satellite-Based Global Drought Climate Data Record, ***Environmental Research Letters***, 7 (4), 044037, doi:10.1088/1748-9326/7/4/044037.

14. **AghaKouchak A.**, Mehran A., Norouzi H., Behrangi A., 2012, Systematic and Random Error Components in Satellite Precipitation Data Sets, ***Geophysical Research Letters***, 39, L09406, doi:10.1029/2012GL051592.

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11. **AghaKouchak A.**, Behrangi A., Sorooshian S., Hsu K., Amitai E., 2011, Validation of Satellite-Retrieved Extreme Precipitation Rates across the Central United States, ***Journal of Geophysical Research***, 116, D02115, doi: 10.1029/2010JD014741.

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7. **AghaKouchak A.**, Bárdossy A., Habib E., 2010, Copula-Based Uncertainty Modeling: Application to Multi-Sensor Precipitation Estimates, ***Hydrological Processes***, 24 (15), 2111-2124, doi: 10.1002/hyp.7632.

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4. **AghaKouchak A.**, Habib E., 2010, Application of a Conceptual Hydrologic Model in Teaching Hydrologic Processes, ***International Journal of Engineering Education***, 26 (4), 963-973.

3. **AghaKouchak A.**, Ciach G., Habib E., 2010, Estimation of Tail Dependence Coefficient in Rainfall Accumulation Fields, ***Advances in Water resources***, 33(9), 1142-1149, doi: 10.1016/j.advwatres.2010.07.003.

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3. **AghaKouchak A.**, Easterling D., Hsu K., Schubert S., Sorooshian S., Extremes in a Changing Climate, Springer Netherlands, Dordrecht, ISBN 978-94-007-4478-3.

2. **AghaKouchak A.**, 2010, Simulation of Remotely Sensed Rainfall Fields Using Copulas, University of Stuttgart, ISBN 978-3-933761-92-7.

1. **AghaKouchak A.**, Nasrollahi N., Firouz Bahadori, 2002, Engineering Hydrology: Practice Questions and Answers, Angizeh, ISBN 964-7517-03-3 (in Persian).

Book Chapters

8. Sadegh M., Love C., Farahmand A., Mehran A., Tourian M.J., **AghaKouchak A.**. "Multi-Sensor Remote Sensing of Drought from Space." Book Chapter in: Remote Sensing of Hydrological Extremes, pp. 219-247. Springer International Publishing, 2017.

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6. **Amir AghaKouchak**, Zengchao Hao, Navid Nakhjiri, Lisa Damberg, 2013, Droughts, Invited Book Chapter in: Encyclopedia of Natural Hazards, Taylor & Francis, accepted.

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4. **AghaKouchak A.**, Sellars S., Sorooshian S., Methods of Tail Dependence Estimation, In: Extremes in a Changing Climate (eds. AghaKouchak A., Easterling D., Hsu K., Schubert S. and Sorooshian S.), Springer Netherlands, Dordrecht, ISBN 978-94-007-4478-3.

3. **Amir AghaKouchak**, Kuolin Hsu, Soroosh Sorooshian, Xiaogang Gao, Bisher Imam, 2012, Precipitation Estimation from Remotely Sensed Information using the Artificial Neural Networks Algorithm: Application to Drought Monitoring and Analysis, Book Chapter in: Remote Sensing of Drought - Innovative Monitoring Approaches (eds. B. Wardlow, M. Anderson, J. Verdin), CRC Press, ISBN: 978-1439835579.

2. Soroosh Sorooshian, **Amir AghaKouchak**, 2011, Advancement towards a state-of-the-art hydrologic flood forecasting system, Invited Book Chapter in: Korea Environmental Institute Book Series, Korea Institute of Construction Technology (KICT).

1. Hengl T., **AghaKouchak A.**, Perčec Tadić M., 2010, Methods and data sources for spatial prediction of rainfall, Book Chapter in Rainfall: State of the Science (eds. Testik F.Y. and Gebremichael M.), American Geophysical Union, ISBN: 978-0-87590-481-8.

Technical Reports, White Papers, and Other Publications

11. Mirchi A., Madani K., **Amir AghaKouchak**, 2015, Lake Urmia: how Iran's most famous lake is disappearing, The Guardian, Friday 23 January 2015, View Article: http://gu.com/p/455zb/tw

10. Hoerling M., Schubert S., Mo K., **AghaKouchak A.**, Berbery H., Dong J., Kumar A., Lakshmi V., Leung R., Li J., Liang X., Luo L., Lyon B., Miskus D., Quan X., Seager R., Sorooshian S., Wang H., Xia Y., Zeng N., 2013, An Interpretation of the Origins of the 2012 Central Great Plains Drought, Assessment Report, NOAA Drought Task Force Narrative Team, Office of Oceanic and Atmsopheric Research, Climate Program Office.

9. Kuolin Hsu, Soroosh Sorooshian, Xiaogang Gao, Dan Braithwaite, **Amir AghaKouchak**, 2012, Monitoring global precipitation using satellites, SPIE Newsroom.

8. Christa Peters-Lidard, Ana Barros, Wade Crow, Witold Krajewski, Robert Houze, Walt Petersen, **Amir AghaKouchak**, Manos Anagnostou, Eyal Amitai, Rafael Bras, Robert Cifelli, David Gochis, David C. Goodrich, Kuolin Hsu, Dennis Lettenmaier, Douglas Miller, Timothy Schneider, Marshall Shepherd, James Smith, Soroosh Sorooshian, Ali Tokay, Jingfeng Wang, Xubin Zeng, 2011, Global Precipitation Mission (GPM) Integrated Hydrologic Ground Validation Science Implementation Plan, PMM Hydrology Working Group, Goddard Space Flight Center, Greenbelt, MD.

7. NOWCAST ARTICLE: Sorooshian S., **AghaKouchak A.**, Arkin P., Eylander J., Foufoula-Georgiou E., Harmon R., Hendrickx J., Hsu K., Imam B., Kuligowski R., Skahill B., Skofronick-Jackson G., 2011, Advancing the Remote Sensing of Precipitation, *Bulletin of the American Meteorological Society - Nowcast*, 92 (10), 1271-1272 doi: 10.1175/BAMS-D-11-00116.1.

6. Wade T. Crow, Kuolin Hsu, Jingfeng Wang, **Amir AghaKouchak**, Eyal Amitai, Rafael Bras, David Gochis, David C. Goodrich, Soroosh Sorooshian, and Xubin Zeng, 2011, Potential GPM Ground Validation Activities within the Semi-Arid Walnut Gulch/Upper San Pedro River Basin, White Paper submitted to the Global Precipitation Mission (GPM) Ground Validation Program, NASA GSFC, Greenbelt, MD.

5. Sorooshian S., **AghaKouchak A.**, Hsu K., Gao X., 2011, Annual Report: Satellite Data Support for Hydrologic and Water Resource Planning and Management, University of California Irvine, submitted to the National Oceanic and Atmospheric Administration,

National Environmental Satellite Data and Information Service, National Climatic Data Center.

4. Sorooshian S., **AghaKouchak A.**, Hsu K., Gao X., Imam B., 2010, Annual Report: Satellite Data Support for Hydrologic and Water Resource Planning and Management, University of California Irvine, submitted to the National Oceanic and Atmospheric Administration, National Environmental Satellite Data and Information Service, National Climatic Data Center.

3. **Amir AghaKouchak**, Soroosh Sorooshian, 2010, Workshop Report: Advanced Concepts on Remote Sensing of Precipitation at Multiple Scales, University of California Irvine, March 15-17, 2010.

2. **AghaKouchak A.**, Sorooshian S., Imam B., Hsu K., Gao X., 2010, NASA Satellites Help Monitor the Pakistan Flooding: An Application of Near-Real-Time Satellite Observations, *The Earth Observer*, 22 (6), 4-6.

1. Contributing author to the Wold Climate Research Program (WCRP) White Paper on Drought Predictability and Prediction in a Changing Climate: Assessing Current Predictive Knowledge and Capabilities, User Requirements and Research Priorities.

Scientific & Educational Software

6. **Multivariate Copula Analysis Toolbox (MvCAT)**:
By Mojtaba Sadegh, Elisa Ragno and **Amir AghaKouchak**
URL: http://amir.eng.uci.edu/MvCAT.php

5. **Non-stationary Extreme Value Analysis (NEVA) Toolbox**:
By Linyin Cheng, and **Amir AghaKouchak**
URL: http://amir.eng.uci.edu/neva.php

4. **Standardized Drought Analysis Toolbox (SDAT)**:
By Alireza Farahmand, and **Amir AghaKouchak**
URL: http://amir.eng.uci.edu/sdat.php

3. **Validation Toolbox**: Performance Metrics for Evaluation of Remote Sensing Observations and Climate Model Simulations
By **Amir AghaKouchak** and Ali Mehran
URL: http://amir.eng.uci.edu/downloads/ValidationToolbox.zip

2. **HBV-EDU**: A MATLAB Hands-on Toolbox for Teaching Hydrologic Processes
By **Amir AghaKouchak** and Emad Habib

URL: http://amir.eng.uci.edu/education.html

1. **HBV-Ensemble**: A MATLAB Toolbox for Ensemble Streamflow Simulation
   By **Amir AghaKouchak**, Navid Nakhjiri, and Emad Habib
   URL: http://amir.eng.uci.edu/downloads/HBV_Ensemble.zip

Service, Committee & Panel Assignments

National and International

Ad-hoc proposal reviewer for NSF, NASA, ARL and DOI.

Organizing, The 2017 MENA Region-American Frontiers of Science, Engineering, and Medicinn Symposium, US National Academy of Sciences.

Co-Chair, The 2015 United States Frontiers of Engineering, National Academy of Engineering (NAE) of the National Academies.

Secretary of Natural Hazards 2015 (elected), American Geophysical Union.

Member, Visiting International Fellow (VIF) Technical Committee, Environmental and Water Resources Institute (EWRI), American Society of Civil Engineers, 2015-present.

Horton Research Grant Committee, American Geophysical Union (AGU), 2015.

Member of the NOAA Drought Task Force (2014-2017).

Proposal Review Panel, NSF Graduate Research Fellowships Program (GRFP), 2015.

Proposal Review Panel, National Science Foundation (NSF), 2014.

Proposal Review Panel, NSF Graduate Research Fellowships Program (GRFP), 2014.

Graduate Student Award Committee, American Geophysical Union (AGU), Natural Hazards Focus Group, 2014.

Chair of the Organizing Committee, IAHS Summer School Copulas for Hydrology and Climate, 28 Jul - 1 Aug 2014, University of California, Irvine, USA.

Member, Coordinated Energy and Water Cycle Observations Project (CEOP), Global Energy and Water Cycle Experiment (GEWEX) Extremes Work Group.

Member, Drought Interest Group (DIG), Climate Variability and Predictability Project (CLIVAR).

Vice President of the IAHR Student Chapter, University of Stuttgart, 2006-2008

Project Coordinator of the IAHR Student Chapter, University of Stuttgart, 2005-2006

Vice President of the Student Science Council, Department of Civil Engineering, K.N.Toosi University of Technology, 2003-2004

Member of the Editorial Board, Abangan Student Water Engineering Journal, Department of Civil Engineering, K.N.Toosi University of Technology, 1999-2002

Conference/Session Chair, Convener, or Moderator

Co-Convener of the session Water Resources Management and Policy in a Changing World (Conveners: Manuel Pulido-Velazquez, Andrea Castelletti, Kaveh Madani, Patrick Reed, Amaury Tilmant, Greg Characklis, Julien Harou, Jan Kwakkel, Amir AghaKouchak, Wouter Buytaert), EGU General Assembly 2017, 23-28 April 2017, Vienna, Austria.

Member of the Scientific Committee, IAHS 2016 Statistical hydrology workshop, 26-27 Sep 2016, Québec City, Canada.

Co-Convener of the session Science for Disaster Risk Reduction: From Integrated Research and Assessment of Risks to Communication and Engagements, AGU Fall Meeting, 14-18 Dec 2015, San Francisco, CA, USA.

Co-Convener of the session Advances in Remote Sensing of Natural Hazards, AGU Fall Meeting, 14-18 Dec 2015, San Francisco, CA, USA.

Co-Convener of the session Monitoring, Prediction, and Hazard Mitigation of Hydroclimatic Extreme Events, AGU Fall Meeting, 14-18 Dec 2015, San Francisco, CA, USA.

Co-Convener of the session White Lecture. Natural Hazard Science: Building the Community through Integrated Research and Practice, AGU Fall Meeting, 14-18 Dec 2015, San Francisco, CA, USA.

Moderator, Session on Adaptive Management and Impact Assessment, ASCE, World Environmental & Water Resources Congress, Austin TX, Austin, Texas, USA, May 17-21, 2015.

Co-Chair of the Scientific Committee, California Drought: Causes, Impacts, and Policy, AGU Chapman Conference, Beckman Center of the National Academies of Sciences and Engineering, Irvine, California, USA, April 20-22, 2015.

Convener of the session Hydroclimatic Extremes: Drought, AGU Fall Meeting, 15-19 Dec 2014, San Francisco, CA, USA.

Convener of the session Satellite Remote Sensing and Management of Natural Disasters, AGU Fall Meeting, 15-19 Dec 2014, San Francisco, CA, USA.

Convener of the session Sustainable Water Quantity and Quality in the Built Environment, AGU Fall Meeting, 15-19 Dec 2014, San Francisco, CA, USA.

Member of the Scientific Committee, IAHS 5th STAHY workshop, 10-11 Nov 2014, Abu Dhabi, United Arab Emirates.

Technical Committee, 2013 ASCE International Workshop on Computing in Civil Engineering, June 23-25, 2013, University of Southern California, Los Angeles, CA, USA.

Convener of the session Hydrohazards: Processes, Diagnosis and Projection, AGU Fall Meeting, 3-7 Dec 2012, San Francisco, CA, USA.

Convener of the session Hydroclimatic Extremes: Monitoring, Diagnosis & Prediction, AGU

Fall Meeting, 5-9 Dec 2011, San Francisco, CA, USA.

Convener of the session Hydroclimatic Extremes: Monitoring, Diagnosis & Prediction, AGU Fall Meeting, 13-17 Dec 2010, San Francisco, CA, USA.

Co-convener and coordinator, Advanced Concepts Workshop on Remote Sensing of Precipitation at Multiple Scales, March 15-17, 2010, University of California Irvine, Beckman Center, Irvine, CA, USA.

Member of the Scientific Committee, 7th IWA Biennial World Water Congress, 19-24 September 2010, Montreal, Canada.

Member of the organizing committee of the IAHR-SSC 2007 Colloquium: Hydraulic Engineering and Renewable Energy, 31 October 2007, Stuttgart, Germany.

Member of the organizing committee of the IAHR-SSC 2006 Colloquium: Integrated Surface Water Management, 5 July 2006, Stuttgart, Germany.

Member of the Organizing Committee, International Conference on Hydraulics of Dams and Rivers Structures, Tehran, 26-28 April 2004

University of California, Irvine

Graduate Advisor, 2012 - Present

Member, UCI HSSOE Research Committee 2017-present

Member, HSSOE Tech Advisory Committee, 2017 - Present

Faculty Search Committee Member, 2017-2018

Faculty Search Committee Member, 2016-2017

Faculty Search Committee Member, 2013-2014

Edison Scholarship Selection Committee, California Alliance for Minority Participation, 2014 and 2015

Environmental Engineering Seminar Series, Organizer of Hydrology Talks, 2011-2013

Graduate and Postdoctoral Advisees

Postdoctoral Scholars

Laurie Huning (2017 - present).
Simon Papalexiou (2016 - present jointly with Prof. E Foufoula-Georgiou).
Mojtaba Sadegh (2016 - present).
Iman Mallakpour (2016 - present).
Hamed Moftakhari Rostamkhani (2015 - present).
Shahrbanou Madadgar (2014 - 2016).
Zengchao Hao (2012 - 2013).

PhD Students *(Advisor, and Committee Chair)*

Alireza Farahmand, PhD, 2016.
Ali Mehran, PhD, 2015.
Linyin Cheng, PhD, 2014.
Elisa Ragno, PhD Student, 2014 - present.
Omid Mazdiyasni, 2014 - present.
Charlotte Love, PhD Student, 2015 - present.
Felicia Chiang, PhD Student, 2015 - present.
Hassan Anjileli, PhD Student, 2015 - present.
Alexandre Martinez, PhD Student, 2016 - present.
Aneseh Alborzi, PhD Student, 2016 - present.
Austen Nelson, PhD Student, 2017 - present.

PhD Students *(Co-Advisor)*

Baoxiang Pan, PhD, 2015 - Present (Advisor: K Hsu, S Sorooshian).
Phu Nguyen, PhD, 2014 (Advisor: S Sorooshian).
Jingjing Li, PhD, 2012 (Advisor: S Sorooshian).

PhD Dissertation Committee Member

Andrea Thorstensen, PhD, 2016 (Advisors: S Sorooshian, K Hsu).
Ashley Payne, PhD, 2016 (Advisor: Gudrun Magnusdottir).
Tiantian Yang, PhD, 2015 (Advisor: S Sorooshian).
Morteza Shakeri Majd, PhD, 2015 (Advisor: B Sanders).
Masoud Irannezhad PhD, 2015, University of Oulu, Finland, (Advisors: Bjørn Kløve).
Hussein Wazneh PhD, 2015, Institut national de la recherche scientifique - Eau Terre Environnement (INRS-ETE), Québec, Canada, (Advisors: F Chebana).
Hao Liu PhD, 2015 (Advisor: S Sorooshian).
Mojtaba Sadegh PhD, 2015 (Advisor: J Vrugt).
Sasha Richey PhD, 2014 (Advisor: J Famiglietti).
Shakiba Ayatollahi PhD, 2013 (Advisor: W Cooper).
Marzi Azarderakhsh PhD, 2011, City University of New York (Advisors: W Rossow, R Khanbilvardi).

MS Students *(Advisor, and Committee Chair)*

Yasir Ak, 2017.
Hassan Anjileli, 2016.
Sofia Hallerback, 2016.
Juan Diego Rivadeneira, 2016.
Sofia Eckersten, 2016.
Mohsen Niknejad, 2015.
Omid Mazdiyasni, 2015.

Lei Li, 2015.
Zhu Liu, 2014.
Lisa Damberg MSc, 2013.
Alireza Farahmand MSc, 2013.

Visiting Scholars Hosted

Qiaohong Sun, Beijing Normal University, China, 2016-present.
Prof. Carlos Lima, University of Brasília, Brazil, 2015-2016.
Samaneh Ashraf, Ferdowsi Mashhad University, 2015-2016.
Dr. Ali Torabi, University of Oulu, 2016.

Teaching Experience

CEE 274: Climate Data Analysis (graduate), UC-Irvine, (2017, 2016, 2015, 2014).

CEE 173 and CEE 273: Watershed Modeling (undergraduate, graduate), UC-Irvine, (2017, 2016, 2015, 2014, 2013, 2012, 2011).

CEE 81B: Civil Engineering Practicum II (undergraduate), UC-Irvine, (2017, 2016, 2015, 2014, 2013, 2012).

CEE 176 and CEE 276: Hydrology (undergraduate, graduate), UC-Irvine, (2012).

CEE 195: Introduction to Surveying (undergraduate), UC-Irvine, (2012).

Invited Talks, Invited Lectures, Summer Schools

51. **Amir AghaKouchak**, Ragno E, Sadegh M, Cheng L, Mazdiyasni O, Moftakhari H, Salvadori G., Sanders B., Matthew R., Frameworks for Detection and Modeling Compound and Concurrent Climate Extremes, University of Southern California, Los Angeles, California, September 8, 2017.

50. **Amir AghaKouchak**, Multivariate Analysis in Hydrology and Climate Studies, Workshop: Environmental Risk Modeling and Extreme Events, Universite de Montreal, Montreal, Quebec, Canada, August 28-31, 2017.

49. **Amir AghaKouchak**, Ragno E, Sadegh M, Cheng L, Mazdiyasni O, Moftakhari H, Salvadori G. Frameworks for Detection and Modeling Compound and Concurrent Climate Extremes, Concordia University, Montreal, Canada, August 24, 2017.

48. **Amir AghaKouchak**, Compound and Concurrent Climate Extremes (Keynote), WCRP Workshop on Addressing the Challenge of Compound Events, Zurich, Switzerland, April 19-21, 2017.

47. **Amir AghaKouchak**, Madadgar S., Shukla S., Cheng L., Hsu K., A probabilistic framework for linking drought information to impact on agricultural production, Scoping Meeting Agricultural Risk Assessment, UNISDR-NOAA, Boulder, Colorado, USA, February 7-9, 2017.

46. **Amir AghaKouchak**, Cheng L, Mazdiyasni O, Moftakhari H, Salvadori G., Sanders B., Matthew R., Compound and Concurrent Climate Extremes, Iowa State University, IA, February 3, 2017.

45. **Amir AghaKouchak**, Madadgar S., Shukla S., Cheng L., Hsu K., Improving seasonal drought prediction in California by combining statistical and dynamical models, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

44. **Amir AghaKouchak**, Mehran A., Mazdiyasni O., Ashraf B., Frameworks for Assessing Human Influence on Water Availability, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

43. **Amir AghaKouchak**, Mehran A., Mazdiyasni O., Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability, Concordia University, Montreal, Canada, May 20, 2016.

42. **Amir AghaKouchak**, Mehran A., Mazdiyasni O., Socioeconomic Drought in a Changing Climate: Modeling and Management, European Geosciences Union General Assembly 2016, Vienna, Austria, April 17-22, 2016.

41. **Amir AghaKouchak**, Mehran A., Mazdiyasni O., Integrating Human Interactions in Water Availability Assessment under Climate Change, Lund University, Lund, Sweden, April 13, 2016.

40. **Amir AghaKouchak**, Remote Sensing of Drought: Progress, Challenges Opportunities for Improving Drought Monitoring (Keynote Speech), 2016 NASA Atmospheric Infrared Sounder (AIRS) Spring Science Team Meeting, California Institute of Technology, Pasadena, California, USA, March 22-24, 2016.

39. **Amir AghaKouchak**, Madadgar S., Cheng L., Shukla S., Wood A., Svoboda M., A Hybrid Statistical-Dynamical Drought Prediction Framework: Application to the Southwestern US, NOAA Modeling, Analysis, Predictions, and Projections (MAPP) Webinar Series, February 25, 2016.

38. **Amir AghaKouchak**, Droughts, Climate Change and Human Interactions: Modeling and Assessment, Imperial College London, UK, January 25, 2016.

37. **Amir AghaKouchak**, Farahmand A., Remote Sensing of Drought: Progress and Opportunities for Improving Drought Monitoring, AGU Fall Meeting, San Francisco, California, USA, December 14-18, 2015.

36. **Amir AghaKouchak**, Mehran A., Assessing Climate Change Impacts on Water Availability Accounting for Human-Induced Water Stress, AGU Fall Meeting, San Francisco, California, USA, December 14-18, 2015.

35. **Amir AghaKouchak**,Drought, Environmental Modeling and Human Interactions, Interagency Steering Committee on Multimedia Environmental Models (ISCMEM), Davis, CA, USA, October 27-29, 2015.

34. **Amir AghaKouchak**, Available Frameworks and Information Sources for Understanding Integrated Water Resources Management: What are the Gaps and Unrealized Opportunities, Aspen Global Change Institute Workshop on Opportunities for Integration of Remote Sensing, Integrated Assessment, and Adaptation, Aspen, Colorado, USA, October 11-16, 2015.

33. **Amir AghaKouchak**, Extreme Events and Water Resources Availability and Distribution, Aspen Global Change Institute Workshop on Opportunities for Integration of Remote Sensing, Integrated Assessment, and Adaptation, Aspen, Colorado, USA, October 11-16, 2015.

32. **Amir AghaKouchak**, The Severity and Urgency of the Global Water Crisis, Pacific Council on International Policy, Santa Monica, CA, USA, October 9-10, 2015.

31. **Amir AghaKouchak**, Integrating Human Interactions into Climate Change Impacts on Water Availability, University of California, Los Angeles, CA, USA, October 8, 2015.

30. **Amir AghaKouchak**, Anthropogenic Drought: A Global-Local Perspective, Santa Monica Public Library, July 29, 2015.

29. **Amir AghaKouchak**, Madadgar S., Cheng L., Shukla S., Wood A., Svoboda M., Improving seasonal precipitation forecasting in California through integration of dynamic and statistical models, NOAA Modeling, Analysis, Predictions, and Projections (MAPP) Webinar Series, June 9, 2015.

28. **Amir AghaKouchak**, Madadgar S., Cheng L., Shukla S., Advancing Drought Prediction Using an Analog-Year Model Combined with Dynamic Model Simulations, Western States Water Council Workshop on Sub-Seasonal and Seasonal Precipitation Forecasting, San Diego, CA, USA, May 27-29, 2015.

27. **Amir AghaKouchak**, Invited lectures on Integrated Water Cycle Analysis, 3rd Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability, International Centre for Theoretical Physics (ICTP), Trieste, Italy, April 27-30, 2015.

26. **Amir AghaKouchak**, Water Scarcity Iran: Challenges and Opportunities, US-Iran Symposium on Climate Change: Impacts and Mitigation, Beckman Center of the National Academies of Sciences and Engineering, March 30 - April 1, 2015.

25. **Amir AghaKouchak**, Farahmand A., Drought Monitoring Using NASA Atmospheric Infrared Sounder (AIRS) Data, NASA Jet Propulsion Laboratory (JPL), Pasadena, California, USA, March 25, 2015.

24. **Amir AghaKouchak**, Drought and Water Stress Assessment, Transforming Stormwater into a Resource: Design, Risks, and Benefits, New Delhi, India, March 16-17, 2015.

23. **Amir AghaKouchak**, Advancing Drought Onset Detection and Seasonal Prediction Using a Composite of NASA Model and Satellite Data, NASA Applied Sciences Program, Water Resources Meeting, College Park, Maryland, USA, March 3-4, 2015.

22. **Amir AghaKouchak**, Global Integrated Drought Monitoring and Prediction System (GIDMaPS), An International Global Drought Information System Workshop: Next Steps, California Institute of Technology, Pasadena, CA, USA, December 11-13, 2014.

21. **Amir AghaKouchak**, Monitoring Endangered Ecosystems from Space, Eighth Annual Meeting of the US-China EcoPartnership on Wetlands, Beckman Center of the National Academies of Sciences and Engineering, December 8, 2014.

20. **Amir AghaKouchak**, Remote Sensing Applications for Drought Monitoring, International Expert Symposium "Building a Community of Practice on Drought Management Tools", Santiago, Chile, November 19-21, 2014.

19. **Amir AghaKouchak**, The 2014 California Drought: Opportunities for Drought-Proofing California, Civil and Environmental Engineering Fall Quarterly Meeting, UCI University Club, November 7, 2014.

18. **Amir AghaKouchak**, IAHS Summer School Copulas for Hydrology and Climate, Jul 28 - Aug 1, 2014, University of California, Irvine, USA.

17. **Amir AghaKouchak**, California Drought: How Bad is It?, UC Drought Summit, Sacramento, California, April 25, 2014.

16. **Amir AghaKouchak**, Farahmand A., Nakhjiri N., Advancing Global Drought Monitoring and Prediction Using GPM Data, NASA's Global Precipitation Mission Land Surface Working Group, March 7, 2014.

15. **Amir AghaKouchak**, Advancing Global Drought Monitoring and Prediction: Introducing GIDMaPS, NASA Jet Propulsion Laboratory (JPL), Pasadena, California, USA, January 29, 2014.

14. **Amir AghaKouchak**, Mehran A., Global Terrestrial Hydrologic Modeling: Roadblocks, Challenges and Opportunities, AGU Fall Meeting, San Francisco, California, USA, December 9-13, 2013.

13. **Amir AghaKouchak**, Monitoring Extremes, Southern California Society for Risk Analysis, October 21, 2013, Irvine, California, USA.

12. **Amir AghaKouchak**, Advancing Global Drought Monitoring and Prediction: An Overview of GIDMaPS, University of Central Florida, Orlando, Florida, September 17, 2013.

11. **Amir AghaKouchak**, The Global Integrated Drought Monitoring and Prediction System (GIDMaPS), The Desert Research Workshop, Beckman Center of the National Academies of Sciences and Engineering, June 5, 2013.

10. **Amir AghaKouchak**, Invited lectures on Integrated Water Cycle Analysis, 2nd Workshop on Water Resources in Developing Countries: Planning and Management in a Climate Change Scenario, International Centre for Theoretical Physics (ICTP), Trieste, Italy, May 6-17, 2013.

9. **Amir AghaKouchak**, Zengchao Hao, Navid Nakhjiri, Multi-Index Drought Monitoring: A Prototype Global Drought GeoServer, American Geophysical Union (AGU) Meeting of the Americas, Cancun, Mexico, 14-17 May 2013.

8. **Amir AghaKouchak**, Middle East Hydroclimate Extremes, Groundwater and Climate Change in the Middle East, Beckman Center of the National Academies of Sciences and Engineering, November 9-11, 2012.

7. **Amir AghaKouchak**, A Nested Hydrological Model for Coupled Probabilistic and Deterministic Flood Forecasting, NOAA Center for Cooperative Remote Sensing Sciences and Technology(CREST), The City College of the City University of New York, New York, NY, September 19, 2011.

6. **Amir AghaKouchak**, Soroosh Sorooshian, Kuolin Hsu, Application of Remotely Sensed Precipitation Data in Monitoring and Analysis of Extremes: Challenges and Opportunities; In Drought Research Initiative Workshop on Weather and Climate Extremes over Canada: Science and Adaptation, Winnipeg, Canada, February 7-9, 2011

5. **Amir AghaKouchak**, Kuolin Hsu, Soroosh Sorooshian, Satellite Data Support for Hydrologic and Water Resource Planning and Management, Cooperative Institute for Climate and Satellites (CICS) Science Meeting, University of Maryland, College Park, September 8-9, 2010.

4. **Amir AghaKouchak**, Remote Sensing of Rainfall, UCI Extension Osher Lifelong Learning Institute fall class on Water Research at UCI, University of California Irvine, September 23, 2010.

3. **Amir AghaKouchak**, Verification of satellite-based extreme precipitation estimates, NASA Energy and Water cycle Study (NEWS) Extreme Drought and Flood Workshop, University of North Dakota, Grand Forks, ND, July 15-16, 2010.

2. **Amir AghaKouchak**, Kuolin Hsu, Analysis of Extreme Precipitation Events in a Changing Climate: Toward Capturing Nonstationarity, NOAA's National Climatic Data Center, Asheville, NC, April 6, 2010.

1. **Amir AghaKouchak**, Iran's Climate Change, Environmental and Water Resources Challenges, Samuel Jordan Center for Persian Studies, University of California, Irvine, November 8, 2010.

Conference Papers, Presentations and Abstracts

112. Jasim F.H., Vahedifard F., Ragno E., **AghaKouchak A.**, Ellithy G., Effects of Climate Change on Fragility Curves of Earthen Levees Subjected to Extreme Precipitations, GeoRisk 2017, pp. 498-507.

111. Ragno E., **AghaKouchak A.**, Love C, Vahedifard F., Cheng L., Lima C., Intensity-Duration-Frequency Curves for US Cities in a Warming Climate, EGU General Assembly Conference, 19, 18246, Vienna, Austria, April 23-28, 2017.

110. Di Baldassarre G., **AghaKouchak A.**, Rangecroft S., Wanders N., Kuil L., et al., Drought and reservoirs: intended benefits and unintended consequences, EGU General Assembly Conference, 19, 12832, Vienna, Austria, April 23-28, 2017.

109. Rangecroft S., Van Loon A., Bosman M., Wanders N., Di Baldassarre G., **AghaKouchak A.**, et al., Progressing the state of knowledge on the human influence on hydrological droughts through case studies, EGU General Assembly Conference, 19, 13409, Vienna, Austria, April 23-28, 2017.

108. Ashraf B., **AghaKouchak A.**, Mousavi-Baygi M., Moftakhari H., Anjileli H., Assessing surface water availability considering human water use and projected climate variability, EGU General Assembly Conference, 19, 18246, Vienna, Austria, April 23-28, 2017.

107. Papalexiou S.M., **AghaKouchak A.**, Foufoula-Georgiou E., A global assessment of changes in extreme daily maximum temperature, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

106. Hallerback S.A.M., **AghaKouchak A.**, Stensen K., David G., Persson M., Reduced Duration of Ice Cover in Swedish Lakes and Rivers, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

105. Ashraf B., **AghaKouchak A.**, Mousavi Baygi M., Alizadeh A., Moftakhari H., Chiyuan M. Arab D.R., Anjileli H., Impact of surface water withdrawals on water storage variations under a changing climate, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

104. Lima C.H.R., **AghaKouchak A.**, Lall U., Large Scale Processes and Extreme Floods in Brazil, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

103. Madadgar S., **AghaKouchak A.**, Sanford T.J., Kenward A., Increased Fire Risk in a Warming and Drying Climate, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

102. Rajendran V., Dhanya C.T, Chakravorty A., **AghaKouchak A.**, Evolution of Diurnal Asymmetry of Surface Temperature over Different Climatic Zones, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

101. Ragno E., **AghaKouchak A.**, Updated Intensity-Duration-Frequency Curves Under Different Future Climate Scenarios, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

100. Love C.A., Skahill B.E., **AghaKouchak A.**, Karlovits G.S., England J.F., Duren A.M., Extreme Rainfall Analysis using Bayesian Hierarchical Modeling in the Willamette River Basin, Oregon, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

99. Vahedifard F., Robinson J.D., Love C.A., **AghaKouchak A.**, Drought causes substantial reductions in non-isothermal soil strength, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

98. Mazdiyasni O., **AghaKouchak A.**, Heatwaves and Heat-Related Mortality in India, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

97. Moftakhari H.M., Salvadori G., **AghaKouchak A.**, Sanders B.F., Matthew R., Estimating flood risk along the coasts of United States considering compounding effects of multiple flood drivers, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

96. Nguyen P., Sorooshian S., Hsu K., Gao X., **AghaKouchak A.**, Braithwaite D., Thorstensen A.R., Ashouri H., Tran H., Huynh P., Palacios T., UC Irvine CHRS RainSphere - a new user friendly tool for analyzing global remotely sensed rainfall estimates, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

95. Tarroja B., **AghaKouchak A.**, Forrest K., Chiang F., Samuelsen S., The Moving Target of Climate Mitigation: Examples from the Energy Sector in California, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

94. Sadegh M., Ragno E., **AghaKouchak A.**, MvDAT: Multivariate Dependence Analysis Toolbox, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

93. Chiang F., **AghaKouchak A.**, Mazdiyasni O., Observed and Projected Droughts Conditioned on Temperature Change, AGU Fall Meeting, San Francisco, California, USA, December 12-16, 2016.

92. **AghaKouchak A.**, Ragno E, Love C., Cheng L., Nonstationary Rainfall Frequency Analysis: Historical Assessment and Future Projections, IAHS STAHY2016 Workshop, September 26-27, 2016, Québec City, Québec, Canada.

91. Sanders B.F., Luke A., Schubert J.E., Moftakhari H.R., AghaKouchak A., Matthew R.A., Goodrich K., Cheung W., Feldman D.L., Basolo V., Houston D., Co-Development of Coastal Flood Models: Making the Leap From Expert Analysis to Decision Support, 4th IAHR Europe Congress, July 27-29, 2016, Liege Belgium.

90. **AghaKouchak A.**, Ragno E., Cheng L., Nonstationarity in Extremes and Changes in Flood Risk in a Warming Climate, EWRI World Environmental & Water Resources Congress, May 22-26, 2016, West Palm Beach, Florida, USA.

89. **Amir AghaKouchak**, Advancing Drought Onset Detection and Seasonal Prediction Using a Composite of NASA Model and Satellite Data, NASA Applied Sciences Program, Water Resources Meeting, Tuscaloosa, Alabama, USA, April 26-28, 2016.

88. Hovhannisyan D., Kurdahi F., Eltawil A., **AghaKouchak A.**, Al Faruque M.A. , Poster Abstract: Unifying Modeling Substrate for Irrigation Cyber-Physical Systems, ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS'16), April 11-14, 2016, Vienna, Austria.

87. Schubert J., Cheung W., Luke A., Gallien T., **AghaKouchak A.**, Feldman D., Matthew R., Sanders B.F., Making Coastal Flood Hazard Maps to Support Decision-Making - What End Users Want, American Association of Geographers 2016 Annual Meeting, March 29-April 2, San Francisco, California, USA.

86. Ragno E., **AghaKouchak A.**, Assessing Impacts of Human-Induced Climate Change on California's Meteorological Drought, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

85. Madadgar S., Cheng L., Wood A.W., Svoboda M., **AghaKouchak A.**, A Hybrid Framework for Improving NMME Precipitation Forecasts, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

84. Love C., **AghaKouchak A.**, Madadgar S., Tourian M.J., California Drought Recovery Assessment Using GRACE Satellite Gravimetry Information, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

83. Chen Y., Norouzi H., **AghaKouchak A.**, Blake R., The Feasibility Study of Using Microwave Emission in Detecting Drought and Land-Cover/Land-Use Change Studies, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

82. Mazdiyasni O., **AghaKouchak A.**, Changes in Concurrent Droughts and Heatwaves in the United States, December 14-18, 2015, San Francisco, California, USA.

81. Cheng L., Hoerling M.P., **AghaKouchak A.**, Livneh B., Quan X-W, Eischeid J.K., How Has Human-induced Climate Change Affected California Drought Risk?, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

80. Robinson J.D., Vahedifard F., **AghaKouchak A.**, Possible Weakening Processes Imposed on California?s Earthen Levees under Protracted Drought, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

79. Farahmand A., Madadgar S., Li L., **AghaKouchak A.**, Linking Drought Information to Crop Yield, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

78. Ashraf A., **AghaKouchak A.**, Alizadeh A., Mousavi Baygi M., Anthropogenic impacts on hydrology of Karkheh River Basin, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

77. Moftakhari Rostamkhani H., **AghaKouchak A.**, Sanders B.F., Feldman D., Sweet W., Matthew R., Luke A., Sea-level Rise Increases the Frequency of Nuisance Flooding in Coastal Regions, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

76. Cheng L., Hoerling M.P., **AghaKouchak A.**, Livneh B., Quan X-W, Eischeid J.K., How Has Human-induced Climate Change Affected California Drought Risk?, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

75. Tarroja B., **AghaKouchak A.**, Samuelsen S., Developing Water Resource Security in a Greenhouse Gas Constrained Context ? A Case Study in California, AGU Fall Meeting, December 14-18, 2015, San Francisco, California, USA.

74. Islam R., Norouzi H., Bah A., **AghaKouchak A.**, Using Satellite Imagery to Monitor the Major Lakes; Case Study Lake Hamun, Universidad de Cantabria, September 16-18, 2015, Santander, Spain.

73. Tarroja B., **AghaKouchak A.**, Samuelsen S., The Greenhouse Gas Intensity of Alternative Water Resources, ASME Power & Energy 2015, July 2, 2015, San Diego, CA, USA

72. **AghaKouchak A.**, Nonstationarity in Climate and Increased Flood Risk in a Changing Climate, ASCE WORLD Environmental & Water Resources Congress 2015, May 17-21, 2015, Austin, Texas, USA.

71. **AghaKouchak A.**, Drought Monitoring: Challenges & Opportunities to Enhance California's Resilience to Drought, AGU Chapman Conference on California Drought: Causes, Impacts, and Policy, Beckman Center of the National Academies of Sciences and Engineering, April 20-22, 2015, Irvine, California, USA.

70. **AghaKouchak A.**, Tourian M.J., Multi-Sensor Drought Monitoring, Prediction and Recovery Assessment Using Gravimetry Information, European Geosciences Union General Assembly 2015, April 12-17, 2015, Vienna, Austria.

69. **AghaKouchak A.**, Tourian M.J., A Drought Cyberinfrastructure System for Improving Water Resource Management and Policy Making, European Geosciences Union General Assembly 2015, April 12-17, 2015, Vienna, Austria.

68. Cheng L., Rajagopalan B., Bracken C., **AghaKouchak A.**, A Generalized Spatio-temporal Framework for Climate Informed Extreme Precipitation Analysis, AGU Hydrology Days, March 23-25, 2015, Boulder, Colorado, USA.

67. Chen Y., Norouzi H., **AghaKouchak A.**, BhambriM., Blake DR., Detection of Land Cover Change and Drought Trend Using Brightness Temperature and Microwave Emission, AMS Annual Meeting, January 4-8, 2015, Phoenix, Arizona, USA.

66. **AghaKouchak A.**, Feldman D., Grant S., Farahmand A., Nakhjiri N., Momtaz F., Toward a Drought Cyberinfrastructure System for Improving Water Resource Management and Policy Making, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

65. Mazdiyasni O., **AghaKouchak A.**, Changes in Concurrent Droughts and Heatwaves in the United States, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

64. Mehran A., **AghaKouchak A.**, Water Resources Vulnerability Assessment Accounting for Human Influence, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

63. Ragno E., **AghaKouchak A.**, Trends and Patterns of Change in Temperature and Evaporation, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

62. Farahmand A., **AghaKouchak A.**, Improving early drought detection using satellite-based relative humidity data, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

61. **AghaKouchak A.**, Nakhjiri N., Habib E., An Educational Model for Hands-On Hydrology Education, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

60. Cheng L., **AghaKouchak A.**, An Empirical Bayes Framework for Assessing Changes in the Hydrological Cycle, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

59. Nguyen P., Thorstensen A., Hsu K., **AghaKouchak A.**, Sanders B., Sorooshian S., Simulation of the 2008 Iowa Flood using HiResFlood-UCI Model with Remote Sensing Data, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

58. Luke A., Schubert S., Cheng L., **AghaKouchak A.**, Sanders B., Predicting Flood Hazards in Systems with Multiple Flooding Mechanisms, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

57. Chen Y., Bhambri M., Norouzi H., **AghaKouchak A.**, Potential of Using Microwave Emission in Global Analysis of Land Cover and Drought State, AGU Fall Meeting, December 15-19, 2014, San Francisco, California, USA.

56. **AghaKouchak A.**, Cheng L., Introducing the Non-stationary Extreme Value Analysis (NEVA), IAHS STAHY2014 Workshop, November 10-11, 2014, Abu-Dhabi.

55. **AghaKouchak A.**, A Multi-Index Framework for Global Drought Monitoring and Prediction, IAHS STAHY2014 Workshop, November 10-11, 2014, Abu-Dhabi.

54. **AghaKouchak A.**, Improving Early Drought Detection Using AIRS Satellite Observations, 2015 EUMETSAT Meteorological Satellite Conference, September 21-25, 2015, Geneva Switzerland.

53. **AghaKouchak A.**, A Copula-Based Multi-Index Approach for Global Drought Monitoring and Prediction, Spatial Copula Workshop, September 22-23, 2014, University of Munster, Germany.

52. Nguyen P., Thorstensen A., Hsu K., **AghaKouchak A.**, Sanders B., Sorooshian S., Developing a Global High-Resolution Flash Flood Forecasting System Using Multiple Sources of Precipitation Data, AGS Symposium, April 15, 2014, Irvine, California, USA.

51. **AghaKouchak A.**, Hao Z., Farahmand A., Nakhjiri A., The Global Integrated Drought Monitoring and Prediction System (GIDMaPS): Overview and Capabilities, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

50. Cheng L., Gilleland E., **AghaKouchak A.**, Nonstationary Extreme Value Analysis in a Changing Climate: A Software Package, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

49. Hao Z., **AghaKouchak A.**, Predicting the 2012 U.S. Summer Drought Using a Persistence Method, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

48. Mehran A., **AghaKouchak A.**, Phillips T.J., Performance Metrics for Climate Model Evaluation: Application to CMIP5 Precipitation Simulations, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

47. Liu Z., Mehran A., Phillips T.J., **AghaKouchak A.**, Seasonal and Regional Biases in CMIP5 Precipitation Simulation, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

46. Norouzi H., **AghaKouchak A.**, Madani K., Mirchi A., Farahmand F., Conway C., Monitoring Changes in Water Resources Systems Using High Resolution Satellite Observations: Application to Lake Urmia, AGU Fall Meeting, December 9-13, 2013, San Francisco, California, USA.

45. Nguyen P., Sorooshian S., Hsu K., **AghaKouchak A.**, Sanders B., Evaluating the Performance of a Coupled Distributed Hydrologic-Hydraulic Model for Flash Flood Modeling Using Multiple Precipitation Data Sources, December 9-13, 2013, San Francisco, California, USA.

44. Hao Z., **AghaKouchak A.**, Global Drought Monitoring and Prediction Data Products, Next Generation Climate Data Products Workshop, National Center for Atmospheric Research, July 15-19, 2013, Boulder, Colorado, USA.

43. Nguyen P., Sorooshian S., Hsu K., **AghaKouchak A.**, ArcGIS for a Coupled Hydrologic-Hydraulic Modeling, Esri International User Conference, July 8-12, 2013, San Diego, California, USA.

42. Nguyen P., Sorooshian S., Hsu K., **AghaKouchak A.**, Sanders B., Modeling the Upper Little Missouri River 2010 Flash Flood Using a Coupled Distributed Hydrologic and Hydraulic Model, Community Surface Dynamics Modeling System (CSDMS) 2013 Annual Meeting, March 23-25, Boulder, Colorado, USA.

41. **AghaKouchak A.**, A Multivariate Multi-Index Drought Monitoring and Prediction Framework, NOAA Drought Task Force, Webinar Series Drought I (Understanding and Monitoring), February 12, 2013, USA.

40. **AghaKouchak A.**, Hao Z., Multi-Index Drought Monitoring Using NASA MERRA Data, International Union of Geodesy and Geophysics (IUGG) Geophysical Risk and Sustainability (GeoRisk) Conference on Extreme Natural Hazards and their Impacts. December 8-11, 2012, Chapman University, Orange, California, USA.

39. Nguyen P., Sorooshian S., Hsu K., **AghaKouchak A.**, Sanders B., A Coupled Distributed Hydrologic and Hydraulic Model for Flash Flood Modeling, International Union of Geodesy and Geophysics (IUGG) Geophysical Risk and Sustainability (GeoRisk) Conference on Extreme Natural Hazards and their Impacts. December 8-11, 2012, Chapman University, Orange, California, USA.

38. **AghaKouchak A.**, Hao Z., Climate Change Impacts on Droughts Severity-Area-Duration across the Southwest United States, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

37. Farahmand A., **AghaKouchak A.**, A Quasi-Global Landslide Model Using Remote Sensing Data, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

36. Mehran A., Nakhjiri N., **AghaKouchak A.**, A Nested Global-Local Hydrological Model for Large Scale Flood Forecasting Using Satellite Data, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

35. Hao Z., **AghaKouchak A.**, A multivariate approach for drought monitoring across the continental United States, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

34. Cheng L., **AghaKouchak A.**, Deriving Climate Response from CMIP5 Ensemble Climate Projections: Application to Analysis of Temperature and Precipitation Extremes, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

33. Damberg L., **AghaKouchak A.**, Changes in the Patterns and Trends of Droughts across Land and Ocean, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

32. Nguyen P., Sorooshian S., Hsu K., **AghaKouchak A.**, Sanders B., Smith M.B., Koren V., Improving flash flood forecasting through coupling of a distributed hydrologic rainfall-runoff model (HL-RDHM) with a hydraulic model (BreZo), AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

31. Li J., Hsu K., **AghaKouchak A.**, Sorooshian S., Evaluation of satellite-based precipitation estimates in winter season using an object-based approach, AGU Fall Meeting, December 3-7, 2012, San Francisco, California, USA.

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20. **AghaKouchak A.**, Soroosh Sorooshian, Application of Satellite Data to Drought Monitoring and Analysis, World Climate Research Programme (WCRP) Workshop on Drought Predictability and Prediction in a Changing Climate: Assessing Current Knowledge and Capabilities, User Requirements and Research Priorities, March 2-4, 2011, Barcelona, Spain.

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Professional Societies

American Geophysical Union (AGU)

American Association for the Advancement of Science (AAAS)

American Meteorological Society (AMS)

European Geosciences Union (EGU)

International Association of Hydrological Sciences (IAHS)

International Association of Hydro-Environment Engineering and Research (IAHR)

American Society of Civil Engineers (ASCE)

Table 1: Summary of Journal Publications.

Journal	**Publisher**	**2016 Impact Factor**	**Publications**
Nature	Nature	40.137	1
Science	AAAS	37.205	4
Reviews of Geophysics	AGU	12.340	1
PNAS	NAS	9.661	2
BAMS	AMS	7.281	3
Environmental Science & Technology	ACS	6.198	1
Earth's Future	AGU	4.938	2
Science of the Total Environment	Elsevier	4.900	2
Scientific Data	Nature	4.836	1
Energy	Elsevier	4.520	1
Hydrology and Earth System Sciences	EGU	4.437	2
Water Resources Research	AGU	4.397	6
Scientific Reports	Nature	4.259	7
Geophysical Research Letters	AGU	4.253	8
Journal of Climate	Springer	4.161	1
Climate Dynamics	Springer	4.146	1
Environmental Research Letters	IOP	4.404	2
Atmospheric Research	Elsevier	3.778	1
Journal of Hydrometeorology	AMS	3.641	4
Earth System Dynamics	EGU	3.635	1
Climatic Change	Springer	3.496	1
Journal of Hydrology	Elsevier	3.483	7
Journal of Geophysical Research	AGU	3.454	9
Remote Sensing	MDPI	3.244	3
Advances in Water Resources	Elsevier	3.221	5
Hydrological Processes	Wiley	3.014	2
Water Resources Management	Springer	2.848	1
Theoretical and Applied Climatology	Springer	2.640	2
Natural Hazards and Earth System Sciences	EGU	2.510	1
J. Geotech. and Geoenvironmental Eng.	ASCE	2.464	2
Canadian Geotechnical Journal	NRC	2.138	1
Journal of Great Lakes Research	Elsevier	1.958	1
Environment: Sci. Pol. Sus. Develop.	T&F	1.852	1
Sustainable Cities and Society	Elsevier	1.777	1
Int. Journal of Remote Sensing	T&F	1.724	1
Weather and Forecasting	AMS	1.718	1
Journal of Hydrologic Engineering	ASCE	1.694	1
Climate Research	IR	1.578	1
Physics and Chemistry of the Earth	Elsevier	1.426	1
Int. J. Engineering Education	T&F	0.609	1
Iranian Studies	T&F	0.275	1
Science Advances	AAAS	-	1
Stat	Wiley	-	1
Eos	AGU	-	3
Total			**100**