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학력

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주요경력

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병역사항

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수상 및 장학금 수혜

■ 2017 년 5 월 - 2017 년 8 월 UNSW Sydney Postgraduate Writing Fellowship (AUD 6,500)

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[IF: Impact Factor/C: #Citations from Google Scholar]

❖ 학술지 논문

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- [2] Zhang R., <u>Kim S. [corr-auth]</u>, Sharma A., Lakshmi V. (2021). Identifying relative strengths of SMAP, SMOS-IC, and ASCAT to capture temporal variability using a model combination approach, *Remote Sensing of Environment*, 252, 112126, [IF:8.218/C:1]
- [3] <u>Kim S.</u>, Anabalón A., Sharma A. (2020) An Assessment of Concurrency in Evapotranspiration Trends Across Multiple Global Datasets, *Journal of Hydrometeorology*, 22(1), [**IF:3.891/C:0**]

- [4] <u>Kim S.</u>, Pham H., Liu Y., Marshall L., Sharma A. (2020). Improving the combination of satellite soil moisture datasets by considering error cross-correlation: A comparison between triple collocation (TC) and extended double instrumental variable (EIVD) alternatives, *IEEE Transactions on Geoscience and Remote Sensing*, Published (online), [IF:6.120/C:0]
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- [8] <u>Kim S.</u>, Ajami H., Sharma A. (2020). Using remotely sensed information to improve vegetation parameterization in a semi-distributed hydrological model (SMART) for upland catchments in Australia, *Remote Sensing*, 12(18), 3501, [IF: 4.509/C:0]
- [9] Moradi S., Agostino A., Gandomkar Z., <u>Kim S.</u>, Hamilton L., Sharma A., Henderson R., and Leslie G. (2020). Quantifying natural organic matter concentration in water from climatological parameters using different machine learning algorithms, *H2Open Journal*, 3(1), 328-343, [IF: NA/C:1]
- [10] <u>Kim S.</u>, Eghdamirad S., Sharma A., Kim J. H. (2020). Uncertainty Quantification of uncertainty in projections of extreme daily precipitation, *Earth and Space Science*, 2020, e2019EA001052-T, [IF: 2.15/C:2]
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- [12] <u>Kim S.</u>, Zhang R., Pham H., Sharma A. (2019). A review of satellite-derived soil moisture and its usage for flood estimation, *Remote Sens Earth Syst Sci*, 2, 225–246, [**IF: NA/C:4**]
- [13] Pham H., <u>Kim S.</u>, Johnson F., Marshall L. (2019). Using 3D robust smoothing to fill land surface temperature gaps at the continental scale, *Int J Appl Earth Obs Geoinf*, 82, 10879, [**IF:4.846/C:4**]
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❖ 컨퍼런스 논문

[1] M. Young, J. Hayman-Joyce, S. Kim. (2012). Use of Single Layer Concrete Armour Units as Toe Reinforcement, *Proceedings of the Coastal Engineering Conference*, 1 (33), 48, [IF: NA/C:3]

학술대회 발표 실적 (주발표자)

- [1] <u>Kim S.</u>, Zhang R., Sharma A., Lakshmi V. Improvements of satellite observations through data merging: status and challenges, *American Geophysical Union (AGU) fall meeting 2020*, San Francisco, CA, USA
- [2] <u>Kim S.</u>, Pham H., Liu Y., Sharma A., Marshall L. Combining geophysical variables for maximizing temporal correlation without reference data, *The 23rd International Congress on Modelling and Simulation (MODSIM2019)*, Canberra, Australia
- [3] <u>Kim S.</u> [本청], Guo Y., Wasko C., Sharma A. On soil moisture, rain and flood extremes in a warming climate using satellite remote sensing to define future antecedent conditions, *The Korean Society of Climate Change Research (KSCC) 2018*, Jeju, Republic of Korea
- [4] <u>Kim S.</u>, Ajami H., Sharma A. Incorporating an operational satellite-derived leaf area index into a computationally efficient semi-distributed hydrologic modelling application (SMART), *The 22nd International Congress on Modelling and Simulation (MODSIM2017)*, Hobart, Australia
- [5] <u>Kim S.</u>, Liu Y., Johnson F., Sharma A. A temporal correlation-based approach for spatial disaggregation of remotely sensed soil moisture, *American Geophysical Union (AGU) fall meeting 2016*, San Francisco, CA, USA
- [6] Kim S., Liu Y., Johnson F., Parinussa R., Sharma A. Reducing Structural Uncertainty in AMSR2 Soil Moisture Using a Model Combination Approach, *American Geophysical Union (AGU) fall meeting 2014*, San Francisco, CA, USA
- [7] <u>Kim S.</u>, Liu Y., Johnson F., Parinussa R., Sharma A. Improvement of Soil Moisture Dataset Combining AMSR2 Soil Moisture Products, *The Australian Energy and Water Exchange Initiative (OzEWEX) 2014*, Canberra, ACT, Australia

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연구경력

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 - · 장기간 시계열 데이터 해석을 통한 온도-유량, 온도-강우량 상관관계 규명
 - · 수온, 유속 및 총인(總燐) 시계열 데이터를 활용한 한국 4 대강 녹조발생 예측 모형 개발
 - · 원격탐사 데이터를 적용한 GIS 기반 수문 모형 개선 및 검증
 - · 원격탐사 데이터를 이용한 홍수 모니터링 방법 개선 및 검증
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- 2013 년 7월 2017 년 3월: UNSW Sydney 박사과정
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- 2006 년 3 월 2007 년 12 월 **고려대학교** 조교

학술활동

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참여프로젝트

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 - · 2019년 5월 2020년 4월: ARC DP / A Fourier approach to address low-frequency variability bias in hydrology (DP180102737)
 - · 2017년 4월 2019년 5월: ARC Linkage Project / Adapting catchment monitoring and portable water treatment to climate change (LP160100620)
- 박사과정
 - · 2013 년 7월 2017 년 3월: ARC DP / Reducing Flood Loss -Data Assimilation Framework for Improving Forecasting Capability in Sparsely Gauged Regions (DP140102394)
 - · 2015 년 5월 2015 년 5월: NASA SMAP 토양습윤 데이터 검증 캠페인 (현장 데이터 측정) / Soil Moisture Active Passive Experiment - the 4th campaign (<u>SMAPEx-4</u>)

참고인 목록

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