

## 김 석 현



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## 학 력

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- 2006 년 3 월 – 2008 년 2 월 **고려대학교** 사회환경시스템공학과 공학석사 (수자원공학)  
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## 주요경력

- 2017 년 4 월 – 현재 **UNSW Water Research Centre** 박사후 연구원
- 2013 년 7 월 – 2017 년 3 월 **UNSW Sydney** 박사과정 (논문제출: 2017/3; 학위수여: 2017/11)
- 2008 년 1 월 – 2013 년 7 월 **현대건설** 대리 토목설계실 수자원/환경 설계담당

## 병역사항

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## 수상 및 장학금

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- 2013 년 7 월 – 2017 년 1 월 **UNSW Sydney** Tuition fee, Stipend and Top-up Scholarship
- 2007 년 – 2007 년 **고려대학교** 조교장학금; **GS 건설** 장학금; **한국연구재단** BK21 2 단계 장학금

## 논 문

[IF(JCR2020)/ #Citations

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2. Kim S., Mehrotra R., **Kim S. (교신)**, Sharma A. (2021) Assessing countermeasure effectiveness in controlling cyanobacterial exceedance in riverine systems using probabilistic forecasting alternatives, *J. Water Resour. Plan. Manag.*, 147(10), 04021062, [3.054/0]
3. **Kim, S.**, Sharma, A., Liu, Y., & Young, S. I. (2021). Rethinking Satellite Data Merging: From Averaging to SNR Optimization, *TechRxiv* (submitted to *IEEE TGRS*), [–/0]
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5. Zhang R., **Kim S. (교신)**, Sharma A., Lakshmi V. (2021). Identifying relative strengths of SMAP, SMOS-IC, and ASCAT to capture temporal variability using a model combination approach, *Remote Sens. Environ.*, 252, 112126, [10.164/2]
6. **Kim S.**, Anabalón A., Sharma A. (2021) An Assessment of Concurrency in Evapotranspiration Trends Across Multiple Global Datasets, *J. Hydrometeorol.*, 22(1), 231–244, [4.349/0]
7. **Kim S.**, 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 Trans. Geosci. Remote Sens.*, Early Access, 1–11, [5.600/1]
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#### ❖ 컨퍼런스

1. Young M., Hayman-Joyce J., Kim S. (2012). Use of Single Layer Concrete Armour Units as Toe Reinforcement, *Coast. Eng. Proc.*, 1 (33), 48, [-/3]

#### 학술대회 (주발표자)

1. Kim S., Zhang R., Sharma A., Lakshmi V. Improvements of satellite observations through data merging: status and challenges, *AGU fall meeting 2020*, San Francisco, CA, USA
2. Kim S., Pham H., Liu Y., Sharma A., Marshall L. Combining geophysical variables for maximizing temporal correlation without reference data, *MODSIM 2019*, Canberra, Australia
3. Kim S.(초청), 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, *KSCC 2018*, Jeju, Republic of Korea
4. Kim S., Ajami H., Sharma A. Incorporating an operational satellite-derived leaf area index into a computationally efficient semi-distributed hydrologic modelling application (SMART), *MODSIM 2017*, Hobart, Australia
5. Kim S., Liu Y., Johnson F., Sharma A. A temporal correlation-based approach for spatial disaggregation of remotely sensed soil moisture, *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, *AGU fall meeting 2014*, San Francisco, CA, USA
7. Kim S., Liu Y., Johnson F., Parinussa R., Sharma A. Improvement of Soil Moisture Dataset Combining AMSR2 Soil Moisture Products, *OzEWEX 2014*, Canberra, ACT, Australia

#### 자격증

- Professional Engineer – Skill Level 1 Civil Engineer (Engineers Australia); 토목기사 (한국산업인력공단)

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수문학/수자원공학, 인공위성 원격탐사, MATLAB, Python, ArcGIS/QGIS

#### 연구경력

- 2017 년 4 월 – 현재 **UNSW Water Research Centre** 박사후 연구원
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  - 원격탐사 데이터 검증, 개선 및 수문학적 활용
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- 2013 년 7 월 – 2017 년 3 월 **UNSW Sydney** 박사과정
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- 2006 년 3 월 – 2008 년 2 월 **고려대학교** 석사과정
  - 상수관망 신뢰도 개선 및 최적화

#### 교육경력

- 2017 년 4 월 – 2020 년 3 월 **UNSW Sydney** Post-doctoral teaching assistant
  - 과목: *Catchment and Water Resources Modelling* (UG), *Water Resources Engineering* (PG)
  - 코디네이팅 및 컨설팅 (620 명), 강의, 강의 및 평가자료 준비, Moodle(수업관리시스템) 관리
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- 2006 년 3 월 – 2007 년 12 월 **고려대학교** 조교

## 학술활동

- 학술지 리뷰: *Remote Sensing of Environment*, *Journal of Hydrology*, *Environmental Research Letters*, *KSCE Journal of Civil Engineering* 등
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## 참여프로젝트

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- 박사과정
  - 2013 년 7 월 - 2017 년 3 월: *Reducing Flood Loss -Data Assimilation Framework for Improving Forecasting Capability in Sparsely Gauged Regions* ([DP140102394](#)) funded by ARC
  - 2015 년 5 월 - 2015 년 5 월: NASA SMAP 토양습윤 데이터 검증 캠페인 (현장 데이터 측정)/Soil Moisture Active Passive Experiment - the 4<sup>th</sup> campaign ([SMAPEX-4](#))

## 참고인

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