

1. Faculty Name

- a. Soyoon Kum, Ph.D.

2. Education

- a. Ph.D., Civil Engineering, The University of Texas at Austin, 2019
- b. M.S., Civil and Environmental Engineering, Seoul National University, 2012
- c. B.S., Civil Engineering, Hongik University, 2010

3. Academic Experience

- a. Angelo State University, Assistant Professor (Tenure-track), 2021-present, full time
- b. University of California-Riverside, Postdoctoral Scholar, 2019-2021, full time
- c. The University of Texas at Austin, Graduate Research Assistant, 2017-2019, full time
- d. The University of Texas at Austin, Teaching Assistant, 2014-2017, full time
- e. University of Dar es Salaam, Dar es Salaam, Tanzania, Assistant Researcher, 2013, full time
- f. Seoul National University, Seoul, South Korea, Graduate Research Assistant, 2010-2012, full time

4. Non-Academic Experience

- a. Clean Water Science Network (CWSN), Nonprofit Organization, Co-director, Coordinate Latin America Environmental Eng. undergraduate student mentoring program and research experience program, and support water-related research and community service, 2016-Present, part-time

5. Certifications or Professional Registrations

- a. Registered Engineer-In-Training, Texas, EIT No. 68023
- b. Korea Civil Engineer Certificate, South Korea

6. Current Membership in Professional Organizations

- a. American Water Works Association (AWWA), Membrane Technology Research Committee
- b. Korean-American Scientists and Engineers Association (KSEA), 50th administration publication director and Austin chapter staff
- c. American Membrane Technology Association (AMTA), Member
- d. Association of Environmental Engineering and Science Professors (AEESP), Member
- e. Korean American Society of Civil Engineer, Member

7. Honors and Awards

- f. Walter L. and Reta Mae Moore Graduate Fellowship in Water Resources, University of Texas at Austin, 2013 and 2018
- g. 2017/2018 AMTA-ADC Fellowship, The American Membrane Technology Association (AMTA), 2018
- h. 2017 KSEA-KUSCO Graduate Scholarship, Korean-American Scientists and Engineers Association (KSEA) and Korea Korea-U.S. Science cooperation Center (KUSCO), 2017
- i. S.K. Bhagat Endowed Graduate Fellowship in Engineering, University of Texas at Austin, 2014

8. Service Activities

- a. Co-advisor, Korean Student Association (KSA), Angelo State University
- b. Advisor, Clean Water Science Network-Summer Undergraduate Research Experience program

9. Publications and Presentations

- a. **Kum, Soyoon**; Lawler, D. F.; Katz, L. E. (2021). "The Performance of a Hybrid ED-NF Membrane System for NOM Removal in Freshwaters." *ACS ES&T Engineering*. 1, 10, 1420-1431.
- b. Tow, Emily W.; Hartman, Anna Letcher; Jaworowski, Aleksander; **Kum, Soyoon**; Zucker, Ines; AzadiAghdam, Mojtaba; Blatchley, Ernest R. III; Achilli, Andrea; Gu, Han; Urper- Bayram, Gulsum Melike, Warsinger, David M. (2021). "Energy Consumption of Potable Water Reuse". *Water research X*. 13, 100126.
- c. Tang, X.; **Kum, Soyoon**; Liu, H. (2021) "Inland Desalination Brine Disposal: a Baseline Study from Southern California on Brine Transport Infrastructure and Treatment Potential". *ACS ES&T Engineering*.
- d. Tow, Emily W.; Ersan, Mahmut Selim; **Kum, Soyoon**; Lee, Tae; Speth, Thomas F.; Owen, Christine; Bellona, Christopher; Nadagouda, Mallikarjuna N.; Mikelonis, Anne M.; Westerhoff, Paul; Mysore, Chandra; Frenkel, Val S.; deSilva, Viraj; Walker, W. Shane; Safulko, Andrew K.; Ladner, David A. (2021) "Managing and treating PFAS in membrane concentrates." *AWWA Water Science*. 3, 5, e1233
- e. **Kum, Soyoon**; Lawler, D. F.; Katz, L. E. (2020). "Separation Characteristics of Cations and Natural Organic Matter in Electrodialysis." *Separation and Purification Technology*
- f. Landsman, M. R.; Sujjanani, R.; Brodfuehrer, S. H.; Cooper, C. M.; Darr, A. G.; Davis, R. J.; Kim, K.; **Kum, Soyoon**; Nalley, L. K.; Nomaan, S. M.; et al. (2020). "Water Treatment: Are Membranes the Panacea?" *Annual Review of Chemical and Biomolecular Engineering*
- g. Rowles, L. S.; Alcalde, R.; Bogolasky, F.; **Kum, Soyoon**; Diaz-Arriaga, F. A.; Ayres, C.; Mikelonis, A. M.; Toledo-Flores, L. J.; et al. (2018). "Perceived versus Actual Water Quality: Community Studies in Rural Oaxaca, Mexico." *Science of the Total Environment*

10. Professional Development Activities

- a. Organizing Committee, KSEA 2021 and 2019 Scientists and Engineers Early Career Development (SEED) Workshop, December 14-15, 2021, and December 7-8, 2019.