



KSUM 2023 Invited Speaker's CV

All fields marked with an asterisk (*) should be completed.

Name*	Kyungho Yoon	
EDUCATIONAL BACKGROUND		
Country*	Korea	
Current Affiliation*	Yonsei University	
Specialty*	Computation	
Education* (100 words)	<p>Korea Advanced Institute of Science and Technology (09.2011 - 02.2015) Ph.D., School of Mechanical and Aerospace Engineering, Division of Ocean System Engineering</p> <p>Korea Advanced Institute of Science and Technology (02.2010 - 08.2011) M.S., School of Mechanical and Aerospace Engineering, Division of Ocean System Engineering</p> <p>Korea Advanced Institute of Science and Technology (03.2004 - 08.2009) B.S., School of Mechanical and Aerospace Engineering, Department of Mechanical Engineering</p>	
Post-Graduate Education* (100 words)	<p>Korea Advanced Institute of Science and Technology (09.2019 - 08.2020) Postdoctoral Research Fellow, Department of Mechanical Engineering</p> <p>Harvard Medical School/Brigham and Women's Hospital (02.2017 - 08.2019) Postdoctoral Research Fellow, Department of Radiology</p> <p>Seoul National University (03.2015 - 01.2017) Postdoctoral Research Fellow, Department of Mechanical and Aerospace Engineering</p>	
Academic Appointments* (200 words)	<p>Yonsei University (03.2022 – Present) Assistant Professor, School of Mathematics and Computing (Computational Science and Engineering)</p> <p>KIST School, University of Science and Technology (03.2021 – 02.2022) Associate Professor, Division of Bio-Medical Science and Technology</p> <p>Korea Institute of Science and Technology (09.2020 – 02.2022) Senior Researcher, Center for Healthcare Robot, AI Robot Institute</p>	



Scientific Publications*

(200 words)

1. M Choi, M Jang, SS Yoo, G Noh, **K Yoon**. Deep neural network for navigation of single-element transducer during transcranial focused ultrasound therapy: Proof of Concept, *IEEE Journal of Biomedical and Health Informatics*, 2022;26:5653-5664.
2. SS Yoo, H Kim, J Kim, E Kim, **K Yoon**. Enhancement of cerebrospinal fluid tracer movement by the application of pulsed transcranial focused ultrasound, *Scientific Reports*, 2022;12:1-13.
3. S Brinker, P Balchandani, AC Seifert, **HJ Kim, K Yoon**. Feasibility of upper cranial nerve sonication in human application via neuronavigated single-element pulsed focused ultrasound, *Ultrasound in Medicine and Biology*, 2022;48:1045-1057.
4. TY Park, **HJ Kim**, SH Park, WS Chang, H Kim, **K Yoon**. Differential evolution method to find optimal location of a single-element transducer for transcranial focused ultrasound therapy, *Computer Methods and Programs in Biomedicine*, 2022;219:106777.
5. **K Yoon**, W Lee, JE Lee, LB Xu, P Croce, L Foley, SS Yoo. Effects of sonication parameters on transcranial focused ultrasound-mediated neuromodulation in ovine model, *PLOS One*, 2019;14(10).
6. **K Yoon**, W Lee, E Chen, JE Lee, P Croce, A Cammalleri, L Foley, AL Tsao, SS Yoo. Localized blood-brain barrier opening in ovine model using image-guided transcranial focused ultrasound, *Ultrasound in Medicine & Biology*, 2019;45:2391-2404.