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Professional Positions

09/2024 -	KAIST Endowed Chair Professor	Korea Advanced Institute of Science and Technology (KAIST) , Daejeon, Korea
03/2020 -	Associate Professor	KAIST , School of Electrical Engineering, Daejeon, Korea
08/2022 - 08/2023	Visiting Professor	Stanford University , Department of Chemical Engineering, Stanford, CA, USA
12/2017 - 02/2020	Assistant Professor	KAIST , School of Electrical Engineering, Daejeon, Korea
01/2015 - 12/2017	Assistant Professor	University of Colorado Boulder , Department of Electrical, Computer, and Energy Engineering & Materials Science and Engineering, Boulder, CO, USA
08/2014 - 12/2014	Visiting Professor	University of Colorado Boulder , Department of Electrical, Computer, and Energy Engineering, Boulder, CO, USA
07/2012 - 11/2014	Postdoctoral Research Associate	University of Illinois at Urbana-Champaign , Department of Materials Science and Engineering, Urbana, IL, USA - Research Advisor: <i>Prof. John A. Rogers</i>

Education

2012	Ph.D.	Electrical Engineering - Research Advisor: <i>Prof. Olav Solgaard</i>	Stanford University
2008	M.S.	Electrical Engineering	Stanford University
2005	B.S. w/ Highest Honors	Electrical Engineering	The University of Texas at Austin

Research Highlights

Research Theme: Soft electronics that can be seamlessly integrated and adapted with biological organs for implantable and wearable applications

Selected Highlights in the News

Implantable: *Soft wireless neural implants for in vivo pharmacology and optogenetics*

- Published in *Cell* (2015), *Nat. Biomed. Eng.* (2024, 2022, 2019), *Nat. Commun.* (2023, 2021), etc.
- #5 on Scientifica's "*Top 10 discoveries in 10 years of optogenetics*"
- Highlighted in NIH Press, Reuters News, Science Daily, Tech Times, Popular Science, ACS C&EN News, Medical Daily, Denver Post, St. Louis Public Radio, Nature, CCTV, and many others.

Wearable: *Epidermal electronics for advanced healthcare and human-machine interfaces*

- Published in *Sci. Adv.* (2024, 2023, 2016), *Nat. Commun.* (2025, 2022), *Adv. Mater.* (2022), etc.
- Highlighted in IEEE Spectrum, Science Daily, BBC Radio, ABC News Denver, NBC News, CCTV, The Engineer, Physics News, New Scientist, and many others.

Transformative: *Mechanically transformative electronics, sensors, and implantable devices*

- Published in *Nat. Biomed. Eng.* (2024), *Sci. Adv.* (2025, 2024), *Adv. Mater.* (2025, 2022, 2021), etc.
- Highlighted in The Engineer, Physics News, Nanowerk, Science Daily, YTN News, KBS News, Chosun, and several others.