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Candidates for the 55th President

Sam Chung
(click name for the video statement)

Dean & Professor
School of Technology & Computing
City University of Seattle

Dear Fellow KSEA Members,

I am honored to be nominated for KSEA President.

About Dr. Sam Chung: I have been Dean of the School of Technology and Computing (STC) at the City University of Seattle (CityU) since January 2020. I was a tenured full Professor and the Director of the School of ISAT at SIU in Carbondale, IL. I was an Endowed Associate Professor and a founder of the BS in Information Technology and Systems program at the University of Washington (UW), Tacoma.

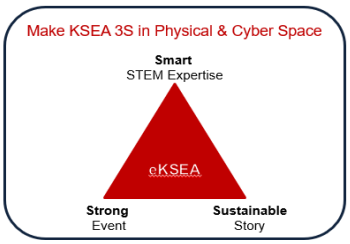
Dr. Chung's Academic Leadership: KSEA needs an experienced President who will create a legacy of excellence and significantly impact the organization's identity and future. With over 16 years of administrative experience, I have successfully led and managed faculty and staff through substantial changes in various leadership roles in higher education. My experiences in founding programs at CityU, UW Tacoma, and DGIST, along with my restructuring efforts at SIU Carbondale, will enable me to grow KSEA further.

Dr. Chung's KSEA Experiences: KSEA requires a president with a wide range of experiences within the organization. I have been involved with the KSEA Seattle Chapter since 2001, taking on various roles, including chapter president, vice president, and advisor. Currently, I am serving as Technical Groups (TG) C-7. Additionally, I held the position of Vice President during the 51st term. My commitment is demonstrated through several accomplishments: I received the KSEA Outstanding Community Service Award in 2022, the President's Volunteer Service Award from the White House, and a lifetime membership.

KSEA Challenges: Like many nonprofit organizations, KSEA encounters two serious challenges regarding the growth and stability of membership and finance. Many dedicated KSEA members have worked hard to overcome these two challenges for 50 years. KSEA has focused on event-driven fundraising, such as UKC or sponsored events. Also, KSEA has supported local chapters through diverse events such as NMSC. However, we still encounter the same problems in membership and finance.

Can you think of alternative approaches to event-driven fundraising and membership drives? Why not our expertise and story-driven ones? Many organizations have embraced the power of online tools since the pandemic. For instance, numerous top universities have begun offering degree programs such as an online MBA (eMBA), allowing them to expand their educational offerings while increasing enrollment and tuition revenue.

Why not consider an **eKSEA** initiative - **Making KSEA Smart, Sustainable, and Strong?** If elected as the KSEA President for the 55th term, I am confident that by proposing eKSEA, I can be a game changer in making KSEA Smart, Sustainable, and Strong in both physical and cyber spaces.



How can I make KSE smart? The eKSEA initiative aims to provide KSEA with an online platform for lifelong learning. My experiences inspire this idea with online education delivery. The KSEA's TGs possess strong expertise in their respective fields. KSEA can generate new revenue through STEM-driven fundraising efforts and offer valuable online courses to lifelong learners. KSEA has already demonstrated its capabilities by successfully delivering online NMSC courses twice during my tenure as IT Director. Parents expressed interest in online math classes to help their children prepare for the NMSC and were willing to pay for these courses.

How can we make KSEA sustainable? The eKSEA initiative aims to provide online resources for chapter development and fundraising. When chapter leadership changes, the new team needs to understand the nonprofit's status, update the website, manage communication on social media, and more. We could implement internal online training programs for chapter leaders to facilitate this. Additionally, fundraising efforts need compelling stories. Why not offer training sessions to help chapters create short videos highlighting their unique and inspiring stories? We could then share these videos through platforms like YouTube and Instagram, encouraging story-driven fundraising.

How can I strengthen KSEA? The KSEA headquarters, which includes staff and EC/DC members, needs a more effective and efficient working environment. The eKSEA will provide internal staff and EC/DC training classes to aim for less work while accomplishing more!

In conclusion, I am confident that my expertise in academic leadership—both in onsite and online learning—along with my extensive experience in KSEA, will be valuable assets in addressing our challenges related to membership and finance. We can achieve this through activities driven by storytelling and STEM expertise while enhancing our current onsite event-driven initiatives. Go eKSEA!

EDUCATION

1995 Ph.D. in Computer Science, University of South Florida, Tampa, Florida
1991 M.S. in Computer Science, George Washington University, Washington, D.C.
1985 M.S. in Computer Science, KAIST, Seoul, Korea
1983 B.S. in Computer Engineering, Kyungpook National University, Daegu, Korea

PROFESSIONAL EXPERIENCE (Since 2010)

2020-Present Founding Dean & Professor, School of Technology & Computing (STC) City University of Seattle (CityU), Seattle, WA
2018-20 Director, Center for Information Assurance Education (NSA/DHS CAE-CD) City University of Seattle (CityU)
2014-18 School Director, School of Information Systems & Applied Technologies, College of Applied Sciences and Arts (CASA), Southern Illinois University (SIU), Carbondale, IL
2013-14 Director of Cyber-Physical Systems. Center for Information Assurance and Cybersecurity, University of Washington(UW)
2011-13 Director of Cyber-Physical Systems. Center for Information Assurance and Cybersecurity, UW
2010-11 Distinguished Professor & Founding Department Head, Information & Communication Engineering, DGIST, Daegu, South Korea
2009-14 Founding ITS Program Coordinator, Information Technology and Systems (ITS), Institute of Technology, UW Tacoma, WA
2000-14 Assistant/Associate/Endowed Chair Professor, UW Tacoma, WA

KSEA ACTIVITIES (Since 2015)

1998-Present KSEA Lifetime Member
2024-27 KSEA TG C-7 Computer & Information Sciences Council
2024 UKC 2024 CIT Symposium Chair
2022-23 51st Term Vice President 2
2022 KSEA NWRC+KOCSEA+Changbal 2022 Conference General Chair
2021-22 KSEA Local Chapter President Committee Chair
2020-22 KSEA Seattle Chapter President
2018-21 KSEA 47th, 48th, and 49th IT Director
2019 KSEA Northwest Regional Conference (NWRC) Chair
2019 KSEA NMSC Seattle Chapter Exam Committee Chair
2017-18 UKC 2018 IT Director
2018 UKC 2018 Executive Committee Member
2015-18 SIU YG Chapter Advisor

AWARDS AND HONORS

2009-Present ACM Senior Member
2023 The Presidents Volunteer Service Award Bronze by the White House
2022 Distinguished Paper Awards (top 5%), Meritorious Paper Awards (top 10%), CONISAR
2022 KSEA Outstanding Community Service Award.
2021 KAUPA Best Research Paper Award.
2020 The President Volunteer Service Award Gold by the White House
2014 UW Undergraduate Research Mentor Award
2012-15 Endowed Chair Associate Prof., UW Tacoma

PROFESSIONAL ACTIVITIES

I have primarily joined three professional organizations for the last 5 years, sharing the outcomes of my research group through their conferences and journals while also serving as a member, reviewer, presenter, or volunteer: Association of Computing Machinery (ACM), Information Systems and Computing Academic Professionals (ISCAP), and Korean Computer Scientists and Engineers Association in America (KOCSEA).

RESEARCH LEADERSHIP AND PUBLICATIONS

I have contributed to 245 publications, including 22 journal papers, 56 conference proceedings, and 167 presentations at national, regional, and local conferences. Since taking on my Deanship in 2020, I have continued to advance research efforts, producing 7 journal papers, 5 conference proceedings, and 26 professional presentations.

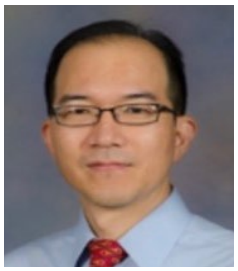
GRANTS, PATENTS, ENTREPREUNERSHIP

I have received funding from various sources, including universities, federal, state, international, industry, and foundation entities such as the NSA, DoD, WA PESB, VICEROY, AWS, CityU, UW, NSF, and SIU. During my time as Dean, the Center for Cybersecurity Innovation at CityU, a teaching-oriented university, has secured over $3M in funding.

Notable Research Accomplishments

- Proven academic leadership demonstrated through founding a school (Dean), a department (Chair), and a program (Coordinator) and transforming a school (Directory) equipped with traditional and/or online delivery models.
- Proven commitment to community service through experiences with KSEA, where I have held various roles, including local chapter president, UKC committee and symposium chair, and positions on the HQ Executive Committee, DC, TG, and APS.
- Launching the online NMSC during the pandemic. While I was serving as the KSEA IT Director for three terms (47th-49th), KSEA decided to provide the online NMSC. My IT team successfully launched and conducted the online NMSC. I received the KSEA Outstanding Community Service Award at UKC 2022.

Candidates for the 55th President



Yong-Kyu Yoon

(click name for the video statement)

Professor
Electrical and computer Engineering
University of Florida

Dear Fellow KSEA Members,

I am grateful for the nomination as a candidate for the presidency of the next KSEA administration. Professor in Electrical and Computer Engineering, Director of the Multidisciplinary nano and Microsystems (MnM) Laboratory, and Assistant Director of the Florida Semiconductor Institute at the University of Florida, Gainesville, FL.

- Vice President II for the 52nd KSEA administration
- Korea Evaluation Institute for Industrial Technology (KEIT) Project Director during the 50th and 51st KSEA administrations.
- Chapter President for the Gainesville Florida Chapter of KSEA from 2015 to 2019
- Played a pivotal role as a founding member of the Gainesville Florida Chapter in 2013.

Primary Research interests	Semiconductors, Heterogeneous integration, Advanced packaging, RF/Microwave engineering, MEMS
Biomedical applications	MRI compatible neural probes, Smart mouthguard, Metamaterials, Metaconductors, Wearable sensing systems
Achievements	22 patents, 300+ publications, 4 book chapters, and 180+ invited talks/ seminars
Grants	$200+M from federal, state, and international (including NSF Engines: Central Florida Semiconductor Innovation Engine, up to $160 M for next 10 years)

Here are my key areas of focus:

K-Science, Engineering, and Technology (K-SET):

- Foster innovation, collaboration and excellence to strengthen KSEA's global leadership.
- Advance engagement and synergistic initiatives to enhance KSEA's impact in science, engineering, and technology worldwide.

Financial Independence - Diversifying sponsorship sources:

- Ensure sustainability by actively seeking support from U.S. corporations, SMEs, and non-profits, alongside Korean sources.
- Secure funding from federal agencies, industries, and investors to strengthen financial stability.
- Collaborate with influential Korean American leaders to develop mutually beneficial public-private partnerships.

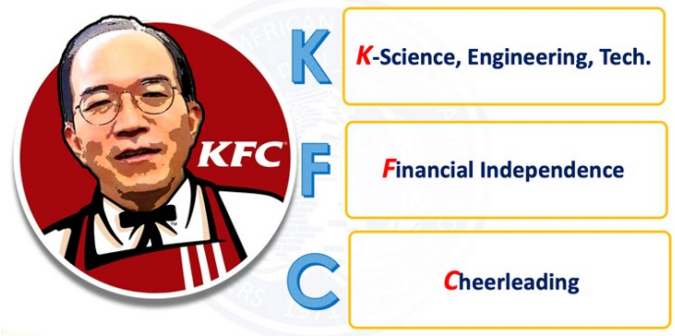
Key area of focus

Diversifying sponsorship sources

Cheerleading:

- Act as KSEA's enthusiastic advocate, actively promoting its mission, values, and achievements.
- Foster a positive and supportive environment that inspires and empowers members.
- Celebrate members' successes and amplify their contributions to the community.
- Energize the KSEA community, strengthen engagement, and champion its role as a leader in science, engineering, and technology.

I am confident that my experience, vision, and unwavering dedication to KSEA make me well suited for the role of President. Thank you for your time and consideration.



EDUCATION

2004 Ph.D. in Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, GA
1999 M.S. in Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, NJ
1994 M.S. in Electrical Engineering, Seoul National University, Seoul, Korea
1992 B.S. in Electrical Engineering Seoul National University, Seoul, Korea

PROFESSIONAL EXPERIENCE

2019-Present Professor, ECE, University of Florida
2017 Visiting Scholar, ECE, Seoul National University
2010-19 Associate Professor, ECE, University of Florida
2006-10 Assistant Professor, ECE, SUNY Buffalo
2004-06 Post-doc, ECE, Georgia Institute of Technology

PROFESSIONAL ACTIVITIES

2022-Present Associate Editor, Frontiers in Antennas and Propagation, Implantable Antennas
2020-21 RHCS Chair, IEEE ECTC Technical Program Committee
2020-21 Vice Chair, IEEE International Microwave Symposium, Focus/Special Session
2019-20 IEEE MEMS 2020 Technical Program Committee
2018-Present Associate Editor, IEEE TCPMT
2017-18 Hilton Head Conference 2018, TPC
2015-Present Editor, Micro and Nano Systems Letters, Springer
2014-16 Guest Editor, IEEE J of Biomedical and Health Informatics, Wireless Comm. & RF Tech for Implants
2014-16 Section Editor, the Encyclopedia of Nanotechnology, Springer
2011 Executive Prog. Sub Comm, Transducers 2011
2010 IEEE Antenna and Propagation Symposium Session Chair

KSEA ACTIVITIES

2024-Present Gainesville Florida YG Chapter Advisor
2023-Present 52nd Vice President II
2021-23 KEIT Project Director
2022 UKC KEIT Symposium Co-Chair
2021 UKC KEIT Symposium Co-Chair
2020 UKC EEC Symposium Chair
2018 UKC EEC Symposium Co-Chair
2015-19 Gainesville Florida Chapter President
2015 KSEA Florida Regional Conference Session Chair
2013 KSEA Gainesville Florida Chapter Founding member

RESEARCH LEADERSHIP AND PUBLICATIONS

- 22 patents
- 300+ publications in refereed journals and proceedings
- 4 book chapters
- 180+ invited talks/ seminars at institutes or companies.

AWARDS AND HONORS

2025 Doctoral Mentoring Award, UF HWCOE
2024 Staff Choice Faculty Award, UF ECE
2024 President's Volunteer Service Award (Bronze) by President Joe Biden of the United States of America
2022 Faculty Excellence Award for Service, UF ECE
2021 Teacher of the Year Award, UF ECE
2017 Brain Pool Program Award from KOFST
2017 Honorary Consultant of Champion Innovation Club (2017– 2020)
2017 Term Professorship Award (2017 – 2020)
2017 HWCOE Doctoral Dissertation Advisor/Mentoring Award
2016 Technology Innovator Award
2016 IoP Outstanding Reviewer Award
2015 Faculty Member of the Year Award, UF
2009 UB Young Investigator Award
2008 NSF CAREER Award

GRANTS AND IMPACTS

$200M+ federal, state and international funds

- National Science Foundation (NSF) including NSF Inaugural Engine program
- US Air Force Research Laboratory (AFRL)
- Army Research Lab (ARL)
- Defense Advanced Research Project Agency (DARPA)
- BrainLink (KOFST)

and multiple industrial contracts (Samsung, CISCO, Corning, etc.)

Advisor of 21 PhD's, 39+ MS', 45+ Undergraduate mentees.

Candidates for the 54th Vice President

Deok-Ho Kim

Professor and Director
Biomedical Engineering
Johns Hopkins University

STATEMENT OF PURPOSE

I am deeply honored to be nominated for the Vice President (VP) position within the 54th KSEA administration. My vision is to strengthen scientific, technological, and entrepreneurial collaborations between the U.S. and Korea, expand KSEA's global impact, and enhance support for our next-generation scientists and engineers. My two-decade engagement with KSEA began as a graduate student volunteer and has since grown into key leadership roles, including Technical Group (TG) Councilor, President of the Korean-American Biomedical Engineering Society (KBMES)-KSEA APS, President of the KSEA Baltimore Chapter, and organizer of multiple UKC BME and IES symposiums. As an educator, scientist, innovator, and entrepreneur, I have led pioneering research in biomedical engineering, securing over $50M in research grants and founding three biotech startups. My diverse experience in academia, industry, and startup ecosystems uniquely positions me to drive strategic initiatives that benefit KSEA members at all career levels. If elected as VP, I will focus on 1) fostering U.S.-Korea collaborations through joint research programs, industrial partnerships, and technology exchange initiatives, 2) enhancing mentorship and career development for students, early-career scientists, and professionals in both academia and industry, 3) strengthening KSEA's impact by improving member engagement, outreach, and visibility. With my experience and commitment to advancing KSEA's mission, I look forward to working with our community to build a stronger, more connected, and globally impactful KSEA. Thank you for your support and consideration.

EDUCATION

2010	Ph.D. in Biomedical Engineering Johns Hopkins University
2000	M.S. in Mechanical Engineering Seoul National University
1998	B.S. in Mechanical Engineering POSTECH

APPOINTMENTS

2022-Present	Professor of Biomedical Engineering Johns Hopkins University
2022-Present	Director, Center for Microphysiological Systems, Johns Hopkins University
2019-22	Associate Professor of Biomedical Engineering Johns Hopkins University
2017-19	Associate Professor of Bioengineering University of Washington
2011-17	Assistant Professor of Bioengineering University of Washington
2010-11	Assistant Research Professor of Biomedical Engineering, Johns Hopkins University
2000-05	Research Scientist Korea Institute of Science and Technology (KIST)
2003-04	Visiting Scholar Swiss Federal Institute of Technology

KSEA ACTIVITIES

2025	UKC 2025 Conf. Program Co-Chair
2022-25	Technical Group (C-1) Councilor
2024-Present	President, KSEA Baltimore Chapter
2023-Present	Member, KSEA Honors and Award Committee (HAC)
2022, 2023, 2024	Chair, UKC BME Symposium
2019	Co-Chair, UKC Innovation and Entrepreneur Symposium (IES) Symposium
2019	Invited Speaker, UKC SEED Workshop
2023-Present	President, Korean-American Biomedical Engineering Society, KSEA APS
2019-23	Vice President, Korean-American Biomedical Engineering Society, KSEA-APS
2013	Program Chair, KSEA Northwest Regional Conference (NWRC)
2009	Science Director, Baltimore Life Scientists Association (BLSA), KSEA-APS

PROFESSIONAL ACTIVITIES

2024-Present	Fellow, American Institute of Medical and Biological Engineering (AIMBE)
2024-Present	Scientific Advisor, Samsung Biologics & Samsung Bioepis
2022-Present	Fellow, Royal Society of Chemistry (RSC)
2021-Present	Fellow, American Heart Association (AHA)
2015-Present	Scientific Founder and Board of Directors, Curi Bio
2013-Present	Senior Member, IEEE

Editorial Board for ~10 Journals, including Aging Cell, VIEW Medicine, Experimental Biology and Medicine, Biomaterials Research, Advanced Biology, Theranostics, Biomedical Microdevices, International Journal of Nanomedicine

RESEARCH AND ACADEMIC LEADERSHIP

Expert in biomedical engineering, nanobiotechnology, biomaterials, mechanobiology, and stem cell/tissue engineering. Author of 200+ peer-reviewed publications, with >19,000 citations (h-index=70) and 150+ invited talks/seminars at conferences, universities, national labs, and companies. Organizer of 30+ international research symposiums/ workshops. Currently a Professor of Biomedical Engineering and Director of the Center for Microphysiological Systems, securing $50M+ in research grants from NIH, NSF, DOD, AHA, MDA. Mentor to 30+ postdocs, 15+ Ph.D., 20+ M.S., and 50+ undergrad, and member of 20+ Ph.D. dissertation committees. Entrepreneur and innovator, co-founder of Curi Bio, Enthera, and OncoVisio, inventor of 40+ patents, and scientific advisor for multiple startups.

AWARDS AND DISTINCTIONS

2022	KSEA/KOFST Engineer of the Year Award
2021	Mid-Career Award, International Society of Biofabrication (ISBF)
2018	IEEE NANOMED Innovator Award
2015	Cellular/Molecular Bioengineering Young Innovator Award, Biomedical Engineering Society
2013	Young Investigator Award, Korean-American Scientists and Engineers Association (KSEA)
2011	Perkins Coie Award for Discovery
2010	Harold Weintraub Award in the Biological Sciences
2009	Samsung HumanTech Thesis Award
2008	Predoctoral Fellowship, American Heart Association

Candidates for the 54th Vice President

Ryuhwa Stella Kim

Senior Manager of Risk & Compliance Transformation Technology (GRC)
Wissda, Inc.

STATEMENT OF PURPOSE

I am honored to be nominated for the Vice President position of the 54th KSEA administration. KSEA has played a vital role in my professional growth, providing opportunities for mentorship, collaboration, and leadership. With deep gratitude, I am committed to giving back and ensuring the organization's continued success.

Through my roles in KSEA, I have contributed to the development and execution of key initiatives, led efforts to enhance program engagement, and facilitated collaboration between young professionals and senior members. These experiences have strengthened my commitment to enhancing organizational efficiency and fostering meaningful engagement across the KSEA community.

If elected as Vice President, I will focus on enhancing operational efficiency, refining KSEA's business model, and expanding cross-generational collaboration to maximize the value we provide to members. I am eager to contribute my experience and leadership to further KSEA's mission.

I am truly grateful for this opportunity and deeply honored by the trust placed in me. Thank you for your support and for giving me the privilege to contribute to this esteemed community.

EDUCATION

2016	M.S. in Electrical Engineering, University of Southern California, Los Angeles, California
2012	B.S. in Electronic Engineering, Seoul National University of Science and Technology, Seoul, South Korea

RESEARCH & PROFESSIONAL AREAS

- Machine Leaning & Deep Learning for Software Platform Development
- Business Strategy & development

PROFESSIONAL EXPERIENCE

2025-Present	Senior Manager of Risk & Compliance Transformation Technology (GRC) , Wissda
2022-25	Senior Program Manager, CDS
2020-22	Technical Program Manager, CDS
2017-20	Software Development Engineer, CDS

KSEA ACTIVITIES

2024-26	Rules Committee member
2024-25	53rd Admin General Director
2024	KSEA Leadership Conference Chair
2024	Finance Director 2, UKC 2024
2023-Present	Adviser, Impact & Katalyst
2023-24	52nd Admin Executive Director
2023	Engagement Director, UKC 2023
2023	IT & Next Gen Director, IES, UKC 2023
2022-23	51st Admin General Director
2022-23	DEI TF
2022	General Director 2, UKC 2022
2022-23	YG Councilor
2022	Step-up Co-Chair, YG and Local
2021	Production Director, UKC 2021
2021	Step-up Venue and Local Director
2020-21	49th Admin YP Director
2020-23	Adviser, YGTLC
2020	Conference Chair, YGTLC 2020
2020	Proctor Volunteer, NMSC (Sothern California)
2019-22	Member of KSEA YG Committee
2019-20	48th Admin YG Director
2019	Conference Co-Chair, YGTLC 2019
2018	Organizer, UKC 2018
2019	47th Admin Publication Director
2017-18	46th Admin Publication Director
2015-18	Organizer, YGTLC

KSEA AWARDS

2020	KSEA YG leadership award

Candidates for the 54th Vice President

Sung-Hee (Sonny) Kim

(click name for the video statement)

Professor and Distinguished Faculty Fellow
Associate Chair for Civil Engineering
The University of Georgia

STATEMENT OF PURPOSE

I am truly honored to be nominated for Vice President of the 54th KSEA administration. As a proud member, I owe much of my professional growth to the support and opportunities KSEA has provided. Inspired by this, I am eager to give back and contribute to the organization's mission.

I'm passionate about serving our members and representing their interests. I've consistently shown my dedication through active participation and leadership within KSEA. Plus, my experience as President of the Korean Transportation Association in America (KOTAA) has helped me build the leadership, strategic insight, and commitment needed to take on the role of Vice President. If elected, my goals are to:

- Strengthen local chapters: Expand the support and resources needed for growth.
- Collaborate with Affiliated Professional Societies (APS): Increase membership and drive professional development.
- Enhance ties between local chapters and APS: Foster stronger connections to expand KSEA's impact.

I am excited about the opportunity to help KSEA thrive. Thank you for considering my candidacy. I look forward to the chance to serve our members!

EDUCATION

2004	Ph.D. Civil Engineering, Texas A&M University
2000	M.S. Civil Engineering, Georgia Institute of Technology
1999	B.S. Civil Engineering, Inha University – Summa Cum Laude

PROFESSIONAL EXPERIENCE

2024-Present	Associate Chair for Civil Engineering, University of Georgia (UGA), Athens, GA
2023-Present	Associate Chair for Global Engagement, UGA
2018-24	Graduate Coordinator, College of Engineering, UGA
2022-Present	Professor, College of Engineering, UGA
2016 -22	Associate Professor, College of Engineering, UGA
2012-15	Associate Professor, Civil Engineering, Kennesaw State University
2007-12	Assistant Professor, Kennesaw State University

KSEA HQ ACTIVITIES

2024-25	Program Chair, UKC 2025
2024-25	Membership Director, KSEA 53rd Admin
2023-24	Membership Director, KSEA 52nd Admin
2022-25	Co-Chair, Affiliated Professional Society (APS) Committee
2022-23	Sponsored Forum Director, UKC 2023
2015	Chair, Poster Session, Civil, Environmental and Architecture Symposium, UKC 2015
2015	Co-Chair, Structure/Geotech Session, Civil, Environmental, Architectural Symposium, UKC 2015
2014	Chair, Structure/Geotech/Materials Session, Civil, Environmental, Architectural Symposium, UKC 2014

KSEA LOCAL CHAPTER ACTIVITIES

2024-25	Chair, KSEA Georgia Chapter, KSEA National Mathematics Competition (NMSC)
2023-24	Chair, KSEA Georgia Chapter, KSEA National Mathematics Competition (NMSC)
2023-24	Technical Session Chair, 2024 KSEA Southeastern Regional Conference (SERC)
2013-14	Chair, Civil & Env. Eng. Session I, 2014 KSEA Southeastern Regional Conference (SERC)
2013	Invited Speaker, Session 3: Applied Science and Engineering for Better Life, 2013 KSEA Southeastern Regional Conference (SERC)

PROFESSIONAL ACTIVITIES

2023-25	President, Korean Transportation Association in America (KOTAA)
2023-25	Committee, ASCE Georgia Infrastructure Report Card.
2022-Present	Voting member, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) TC202 Transportation Geotechnics.
2019-22	Academic Representative, Federal Highway Administration (FHWA)'s Asphalt Pavements and Materials Technical Feedback Group (PM-TFG).
2019-Present	Board of Directors, Falling Weight Deflectometer User Group (FWDUG)
2019-Present	Voting Member, TRB AKM and AKP 20 Committee

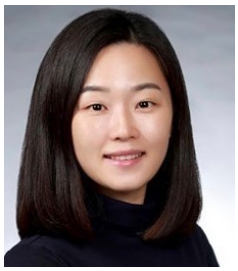
RESEARCH PUBLICATIONS / PRESENTATIONS

- 150+ peer-reviewed articles and two (2) book publications.
- 130+ invited talks/seminars at national and international institutes or conferences
- Over $10M research fundings from numerous federal and state agencies including NSF, US Department of Agriculture (USDA), US Department of Defense (DoD) Federal Highway Administration (FHWA), Georgia Department of Transportation (GDOT), and multiple Industrial sectors

AWARDS AND HONORS

2024	The President's Volunteer Service Award, The Corporation for National and Community Service
2023	President's Award, Korean Geotechnical Society.
2022	Achievement Award, International Society for Maintenance and Rehabilitation of Transport Infrastructures.
2021	Georgia Engineer of the Year Award, Georgia Society of Professional Engineers
2020	Civil Engineer of the Year Award, American Society of Civil Engineer (ASCE).
2019	Distinguished Faculty Fellow Award, College of Engineering, University of Georgia
2018	Prime Minister's Appreciation Plaque, Egyptian Housing and Building National Research Center, Egypt.
2017	ASCE Fellow, American Society of Civil Engineers (ASCE)
2016	Faculty Leave Enhancement Leave Award, Kennesaw State University
2015	Outstanding Faculty Award , Polytechnic Foundation of KSU, Inc.

Candidates for Auditor



Soyoon Kum

Assistant Professor, David L. Hirschfeld Dept of Engineering, Angelo State University, TX

EDUCATION

2019 Ph.D. Civil, Architectural and Environmental Engineering, The University of Texas at Austin, Austin, TX
2012 M.S. Civil and Environmental Engineering, Seoul National University, Seoul, Korea
2010 B.S. Civil Engineering, Hongik University, Seoul, Korea

PROFESSIONAL EXPERIENCE

2021-Present Assistant Professor (Tenure-track), Angelo State University
2019-21 Postdoctoral Scholar, University of California-Riverside
2017-19 Graduate Research Assistant, The University of Texas at Austin
2014-17 Teaching Assistant, The University of Texas at Austin
2013 Assistant Researcher, University of Dar es Salaam, Dar es Salaam, Tanzania
2010-12 Graduate Research Assistant, Seoul National University, South Korea

KSEA ACTIVITIES

2022-Present KSEA YG Faculty Advisor – Angelo State University Chapter
2023-24 52nd Admin Finance Director
2022-23 UKC2023 Finance Director
2022-23 51st admin Publication Director 1
2022-23 50th admin Publication Director 4
2021-22 SEED 2021 Organizing Committee
2019-20 SEED 2019 Organizing Committee
2015-19 Austin Chapter Staff
2016 UKC2016 Student Volunteer

PROFESSIONAL ACTIVITIES

2018-Present Membership Technology Research Committee member, American Water Works Association (AWWA)
2021-Present Reviewer: Journal of Hazardous Materials, Environmental Science: Water Research & Technology, KSCE Journal of Civil Engineering, Technology, Journal of Water Resources, Engineering, Management and Policy
2021-Present Member, American Society of Civil Engineers (ASCE) Co-advisor of ASCE Angelo State University Student Chapter
2021-Present Member, Association of Environmental Engineering and Science Professors (AEESP)

RESEARCH LEADERSHIP AND PUBLICATIONS (SELECTED)

1. Kum, Soyoon; Tang, X.; Liu, H. Recovery of fresh water and minerals from inland brackish desalination brine via persulfate-based photochemical treatment and demineralization. Sep. Purif. Technol. 2024, 342, 126994.
2. Kum, Soyoon; Tang, X.; Liu, H. Treatment of Brackish Water Inland Desalination Brine via Antiscalant Removal Using Persulfate Photolysis. Environmental Science: Water Research & Technology. 2023.
3. Kum, Soyoon; Lawler, D. F.; Katz, L. E. The Performance of a Hybrid ED-NF Membrane System for NOM Removal in Freshwaters. ACS ES&T Engineering. 2021, 1 (10), 1420-1431.
4. Kum, Soyoon; Lawler, D. F.; Katz, L. E. Separation Characteristics of Cations and Natural Organic Matter in Electrodialysis. Sep. Purif. Technol. 2020, 250, 117070.

AWARDS AND HONORS

2018 AMTA-ADC Fellowship, The American Membrane Technology Association (AMTA)
2017 KSEA-KUSCO Graduate Scholarship, Korean-American Scientists and Engineers Association (KSEA) and Korea-U.S. Science cooperation Center (KUSCO)
2017 Best poster presentation award, UKC2017

Candidates for Auditor

Young-sup Yoon

Bruce R. Logue Chair Professor
Department of Medicine,
Division of Cardiology
Emory University

EDUCATION

2002	Post-doctoral Fellow, Tufts University
1998	Ph.D. in Cardiovascular Biology, Yonsei University
1995	M.S. in Allergy and Immunology, Yonsei University
1993	M.D. in Medicine, Yonsei University, Korea

PROFESSIONAL EXPERIENCE

2018-Present	Bruce R. Logue Professor, Emory University
2015-Present	Distinguished Professor, Yonsei University
2008-Present	Director of Stem Cell Biology, Emory University
2013-Present	Professor, Emory University, Georgia Institute of Tech
2008-13	Associate Professor, Emory University
2004-10	Associate Professor, Tufts University
2002-07	Assistant Professor, Tufts University
2000-02	Post-doctoral Fellow, Tufts University
1997-00	Cardiology Fellow/Instructor Yonsei University Medical Center
1994-97	Military Service
1990-94	Internal Medicine Resident Yonsei University Medical Center

KSEA ACTIVITIES

2024-Present	LRPC Member
2023	UKC 2023, Keynote Symposium Chair
2021	KSEA start-up committee (창업진흥원)
2020-21	Vice President
2018-20	Technical Group Council, Chair
2017-20	Technical Group Councilor (Group F, MPS)
2019	UKC, BMP Symposium Chair
2018-19	UKC, BMP Symposium Chair
2018	YG invited speaker
2017	UKC, BMP Symposium Chair
2016	UKC, BMP Symposium Chair
2012-15	UKC, BMP Symposium Session Chair
2005	UKC, BMP invited speaker
2004	UKC, BMP invited speaker

- Organizers, chairs, and speakers of various forums at UKC for BMP, BME, CNV, MPS, KHIDI-sponsored forums
- Various ad-hoc committees and task forces for KSEA
- Guest speaker in KSEA related events(YGPF, Korean-American School)

PROFESSIONAL ACTIVITIES

2019–Present	Inaugural Co-Chair, Asian Basic Cardiovascular Science Society, American Heart Association (AHA)
2019–21	Chair, Life-long Education Committee, AHA
2013–Present	Chartered member and Chair for Study Sections National Institute of Health
2005–Present	Member and Chair for Study Sections American Heart Association
2008–Present	Associate Editors (2) and Editorial Board (5)
2007–Present	Session Chair, Invited speaker, and Abstract Grader for AHA, American Diabetes Association (ADA), Biomedical Engineering Society (BMES), Tissue Engineering International TERMIS, International Society for Heart Research, IVBM
2005-Present	Organizer of ~20 professional conferences

AWARDS AND HONORS

- 2022 1% award, Emory University
- 2021 Ministerial Award, Korean Ministry of Health and Welfare
- 2004–Present More than 160 invited talks including 30 plenary or keynote presentations including British Heart Foundation, ISHR, ADA, European Association for Study of Diabetes, TERMIS, Gordon Conferences, IVBM, International Academy of Cardiovascular Sciences, South China Society of Cardiology,
- 2014 Elected member, American Society for Clinical Investigation (First among Korean graduates)
- 2013 Elected Fellow, American Heart Association
- 2013, 2011, 2010 Superior editorial consultant award for Circulation Research
- 2013 Innovation of 2012 Award, Emory University
- 2011 Outstanding Research Accomplishment Award, Emory Univ
- 2004 Young Investigator Award, American College of Cardiology
- 2003 Melvin Marcus Young Investigator Award, AHA
- 2000 Postdoctoral Fellowship Award, AHA
- 1989 Highest Honors Graduate, Yonsei Univ College of Medicine

RESEARCH LEADERSHIP AND PUBLICATIONS

- Main Area of Research: Stem Cells, Regenerative Medicine and Engineering, Cardiovascular Regeneration
- Director of Stem Cell Biology: Emory University
- Director of Stem Cell and Engineering Initiative: Yonsei University College of Medicine
- ~140 publications, including Nature Medicine, Nature Biomedical Engineering, Nature Cell Biology, Nature Protocols, JAMA, Circulation, Circulation Research, Journal of the American College of Cardiology, ACS Nano

GRANTS, PATENTS, ENTREPREUNERSHIP

- Over $40M in externally sponsored research from NIH, Department of Defense, NSF, AHA, JDRF and industrial entities
- Patents: ~30 filed and issued patents; 4 licensed out
- Fouding a start-up company: KarisBio, AlphaStem, Emervation

Candidates for Technical Group C-1 Councilor

James J. Moon

John G. Searle Professor
Department of Pharmaceutical Sciences, Biomedical Engineering, Chemical Engineering
University of Michigan, Ann Arbor

EDUCATION

2008 Ph.D., Bioengineering, Rice University, Houston, Texas. USA.
2002 B.S., Bioengineering, University of California at Berkeley, California. USA.

PROFESSIONAL EXPERIENCE

2021-Present Professor, Pharmaceutical Sciences, University of Michigan, Ann Arbor.
2021-Present Professor, Biomedical Engineering, University of Michigan, Ann Arbor.
2021-Present Professor, Chemical Engineering, University of Michigan, Ann Arbor.
2018-21 Associate Professor, Pharmaceutical Sciences, University of Michigan, Ann Arbor.
2012-18 Assistant Professor, Pharmaceutical Sciences, University of Michigan, Ann Arbor.
2008-12 Research Fellow, Massachusetts Institute of Technology/HHMI

TECHNOLOGY TRANSFER AND COMMERCIALIZATION

2021-Present Saros Therapeutics. Co-Founder and Chief Scientific Officer. Technology licensed.
2016-Present EVOQ Therapeutics. Co-Founder and Chief Scientific Officer. Technology licensed.

- In 2021, EVOQ has entered a $240M license and collaboration agreement with Amgen, Inc. (LINK)
- In 2022, EVOQ has entered a $685M license and collaboration agreement with Gilead Sciences, Inc. (LINK)

2012 Vedantra Pharmaceuticals (now Elicio Therapeutics). Technology licensed.

KSEA ACTIVITIES

2023-Present Vice president, Korean-American Biomedical Engineering Society
2013-Present Board Member, Korean-American Biomedical Engineering Society
2022-23 Chair of the KSEA Scholarship and Fellowship Committee
2020-22 KSEA Scholarship and Fellowship Committee Member
2021 Session Chair, Biomedical Engineering Symposium, US-Korea Conference, Los Angeles, CA.
2019 Session Chair, US-Korea Conference on Science, Technology, and Entrepreneurship. Chicago, IL.

HONORS AND DISTINCTIONS

2023 Samyang Controlled Release Society Award in Honor of Sung Wan Kim
2023 Controlled Release Society Award Fellow
2023 The American Institute for Medical and Biological Engineering (AIMBE) Fellow
2022 Biomedical Engineering Society (BMES) Fellow
2018 Emerging Leader Award, American Association of Pharmaceutical Scientists
2017 Rice University Outstanding Bioengineering Alumnus Award
2016 National Science Foundation CAREER Award
2011 IEEE-EMBS Harvard Wyss Institute Award for Translational Research
2010 TERMIS Young Investigator Award

EXPECTED CONTRIBUTIONS FOR C-1 BIOENGINEERING AND BIOMEDICAL ENGINEERING

1. Addressing Crucial Needs in Bioengineering and Biomedical Engineering
   - Regenerative Medicine & Organ Engineering: Tissue bioprinting, stem cell therapies, and biomaterials.
   - Wearable & Implantable Medical Devices: Real-time biosensors, neuroengineering, and smart implants.
   - AI & Computational Biology: AI-driven diagnostics, computational drug discovery, and big data integration.
   - Sustainability & Biosecurity: Biodegradable medical devices, biosecurity against pandemics, and sustainable biomanufacturing.
2. Building a Connected Bioengineering and Biomedical Engineering Community
   - Support professional growth through mentorship programs and research collaboration.
   - Promote discussions on AI diagnostics, regenerative medicine, and precision medicine.
3. Strengthening Bioengineering & Computational Science Collaboration
   - Organize joint symposiums on computational drug discovery, synthetic biology, and biomechanical modeling.
   - Foster interdisciplinary research in robotics, neuroengineering, and biosecurity.

RESEARCH LEADERSHIP AND PUBLICATIONS

(132 peer-reviewed research articles, 17,000 Google scholar citations, h-index = 61, 30 US Patents/applications)
Representative publications

1. Han K*, Xie F*, … Moon JJ. Inulin-gel-based oral immunotherapy remodels the small intestinal microbiome and suppresses food allergy. 23, 1444-1455, 2024. Nature Materials.
2. Sun S, … Moon JJ. Strategies for the development of metalloimmunotherapies. 8, 1073-1091, 2024. Nature Biomedical Engineering.
3. Lee Y, … Moon JJ. Hyaluronic acid-bilirubin nanomedicine-based combination chemoimmunotherapy. 14, 1, 4771, 2023, Nature Communications.
4. Son S*, Nam J*, … Moon JJ. Induction of T-helper-17-cell-mediated anti-tumour immunity by pathogen-mimicking polymer nanoparticles. 7, 1, 72-84, 2023, Nature Biomedical Eng.
5. Sun X, … Moon JJ. Amplifying STING Activation by Cyclic Dinucleotide-Manganese Particles for Local and Systemic Cancer Metalloimmunotherapy. 16, 1260-1270, 2021, Nature Nanotech.
6. Han K, … Moon JJ. Generation of systemic antitumour immunity via the in situ modulation of the gut microbiome by an orally administered inulin gel. 5, 1377-1388, 2021, Nature Biomedical Eng.
7. Lee Y, … Moon JJ. Hyaluronic acid–bilirubin nanomedicine for targeted modulation of dysregulated intestinal barrier, microbiome and immune responses in colitis. 19, 1, 118-126, 2020, Nature Materials.
8. Scheetz L*, Park KS*, … Moon JJ. Engineering patient-specific cancer immunotherapies. 3, 10, 768-782, 2019, Nature Biomedical Engineering.
9. Nam J*, Son S*, … Moon JJ. Cancer nanomedicine for combination cancer immunotherapy. 4, 398-414, 2019, Nature Reviews Materials.
10. Kuai R, … Moon JJ. Designer vaccine nanodiscs for personalized cancer immunotherapy. 16, 4, 489-496, 2017, Nature Materials.

Candidates for Technical Group C-1 Councilor

Jinho Kim

Assistant Professor
Biomedical Engineering
Stevens Institute of Technology

EDUCATION

2013	Ph.D. Mechanical Engineering, Columbia University
2009	M.S. Mechanical Engineering, Temple University
2007	B.S. Mechanical Engineering, Temple University

PROFESSIONAL EXPERIENCE

2018-Present	Assistant Professor, Biomedical Engineering, Stevens Institute of Technology
2013-18	Postdoctoral Research Scientist, Biomedical Engineering, Columbia University

PROFESSIONAL ACTIVITIES

2024–Present	Site-PI, NSF Innovation Corps Hub: New York Region
2023–Present	Steering Committee, Center for Health Innovation at Stevens
2019–Present	Faculty advisor, Liberty Science Center's Partners in Science Program
2018–Present	Abstract Judge, Collegiate Inventors Competition
2018–Present	Technical Consultant, Xylyx Bio, Inc.
2024	Session Chair, The 50th MEBEC Conference
2023	Advisor Council Member, The SES Dean's Faculty Advisor Council at Stevens
2021–22	Faculty Advisor, Stevens Graduate BMES Student Chapter
2018–20	Faculty Advisor, Stevens Undergraduate BMES Student Chapter
2019	Junior Planning Committee, The 2019 Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases Conference
2018	Organizing Committee, Workshop for Tissue Engineering Resource Center

AWARDS AND HONORS

2022	CAREER Award, National Science Foundation
2022	Young Investigator Award, Stevens Institute of Technology
2019	The 2019 Science and Innovation Center Best Abstract Award, American Thoracic Society
2018	Travel Grant Award to GEM-ASEE Doctoral Engineering Research Showcase, ASEE
2017	Idea Pitch Competition finalist, Korean American Innovative Technology Engineers & Entrepreneurs
2016	Translational Fellows Award, Columbia University SEAS
2014	Young Investigator Travel Grant, TERMIS Americas 2014 conference
2013	Outstanding Poster Paper finalist, MEMS 2013 conference
2013	Pilot Research Grant, Raymond and Beverly Sackler Foundation
2007	Collegiate Inventors Competition finalist, USPTO
2007	Best Senior Design Project with Ridenour Prize, Temple University
2007	Conference Travel Grant, Robert M. and Mary Haythornthwaite Foundation
2007	President's Scholar Award, Temple University

RESEARCH PUBLICATIONS (SELECTED)

1. J. Chen et al, "*Enhancing Cytoplasmic Expression of Exogenous mRNA through Dynamic Mechanical Stimulation*", Advanced Healthcare Materials, 202401918, (2024).
2. M. Mir et al., "*A Minimally Invasive Robotic Tissue Palpation Device*", IEEE Transactions on Biomedical Engineering, 71(6): 1958-1968, (2024).
3. M.R. Pinezich et al., "*Lung-Mimetic Hydrofoam Sealant to Treat Pulmonary Air Leak*", Advanced Healthcare Materials, e2303026, (2024).
4. M.R. Pinezich et al., "*Sound-Guided Assessment and Localization of Pulmonary Air Leak*", Bioengineering & Translational Medicine, e10322, (2022).
5. M. Mir et al., "*Imaging-Guided Bioreactor for De-Epithelialization and Long-Term Cultivation of Ex Vivo Rat Trachea*", Lab on a Chip, 22, 1018-1031, (2022).
6. J. Chen et al., "*Homogeneous Distribution of Exogenous Cells onto De-Epithelialized Rat Trachea via Instillation of Cell-Loaded Hydrogel*", ACS Biomaterials Science & Engineering, 8(1), 82-88, (2022).
7. J. Chen et al., "*Non-Destructive Vacuum-Assisted Measurement of Lung Elastic Modulus*", Acta Biomaterialia, 131:370-380, (2021).
8. A.E. Hozain et al., "*Xenogeneic Cross-Circulation for Extracorporeal Recovery of Injured Human Lungs*", Nature Medicine, 26(7):1102-1113, (2020).
9. B.A. Guenthart et al., "*Regeneration of Severely Damaged Lungs Using an Interventional Cross-Circulation Platform*", Nature Communications, 10(1):1985, (2019).
10. J. O'Neill et al., "*Cross-Circulation for Extracorporeal Support and Recovery of the Lung*", Nature Biomedical Engineering, 1:0037, (2017).
11. J. Kim et al., "*Targeted Delivery of Liquid Micro-Volumes into the Lung*", PNAS, 112(37), 11530-11535, (2015).

Candidates for Technical Group C-6 Councilor

Jungkwun Kim

Associate Professor
Electrical Engineering
University of North Texas

EDUCATION

2011 Ph.D. in Electrical Engineering, SUNY Buffalo
2007 M.S. in Electrical Engineering, SUNY Buffalo
2005 B.S. in Electronics and Communication Engineering, Saint Louis University, Philippines

PROFESSIONAL EXPERIENCE

2022–Present Associate Professor, Department of Electrical Engineering, University of North Texas
2016-22 Assistant Professor, Department of Electrical and Computer, Kansas State University
2013-16 Senior Research Engineer, Electrical and Systems Engineering, University of Pennsylvania
2011-13 Postdoctoral Fellow, Electrical and Computer Engineering, Georgia Institute of Technology
2011-13 Research Associate, Electrical and Computer Engineering, University of Florida

KSEA ACTIVITIES

2024 Session Co-Chair, ECE, UKC 2024
2023 Session Co-Chair, ECE, UKC 2023
2022 Session Co-Chair, ECE, UKC 2022
2021 Session Co-Chair, ECE, UKC 2021
2020 Session Chair, ECE, UKC 2020
2019 Session Co-Chair, ECE, UKC 2019
2017 Session Chair, ECE, UKC 2017

PROFESSIONAL ACTIVITIES

2025 General Chair, IEEE DCAS 2025
2024 Technical Program Chair, IEEE DCAS 2024
2023 Technical Program Chair, IEEE DCAS 2023
2019 Invited talk, The 5th International Conference on Advanced Electro materials (ICAE 2019)
2017 Keynote Speaker, Global Technology Cooperation Forum, South Korea
2016 Keynote Speaker, Global Technology Cooperation Forum, South Korea
2020–Present Associate Editor: Springer, Micro and Nano Systems Letters

RESEARCH LEADERSHIP AND PUBLICATIONS

30 papers in peer-reviewed journals, 61 papers in refereed conference proceedings, 4 Patents

1. Anil Pathak, Oliver Chyan, Jeongmin Park, Moonyoung Jung, Young-Min Kim, RIFAT HASAN RUPOM, Jungkwun Kim, Eunho Lee, Hyeon-Ah Ju, Dongseok Suh, Wonbong Choi, Ion-Induced Phase Changes in 2D MoTe2 Films for Neuromorphic Synaptic Device Applications, ACS Nano 2024, DOI: 10.1021/acsnano.4c13915
2. J. Y. Tan, C. Kim, T. D. Mou, A. Kim and J. Kim, Wireless Pressure Sensing Smart Stent for Enhanced Post-Endovascular Aneurysm Repair (EVAR) Surveillance, in IEEE Access, 24 December 2024, doi: 10.1109/ACCESS.2024.3522059.
3. Suna Jo, Erin Pearson, Donghoon Yoon, Jungkwun Kim, and Won Min Park, Self-Assembly of Microstructured Protein Coatings with Programmable Functionality for Fluorescent Biosensors ACS Applied Materials & Interfaces 2024 16 (46), 63284-63294 DOI: 10.1021/acsami.4c14249

AWARDS AND HONORS

- Distinguished Faculty Fellow, College of Engineering, University of North Texas 2024
- At-Large Senator, Faculty Senate, University of North Texas 2024-2027
- Named Faculty: Michelle Munson-Serban Simu Keystone Research Faculty Scholar, Aug. 2016 – June. 2021
- 2020 SLAS Technology Reviewer Excellence Award, January 27, San Diego

RESEARCH ACTIVITY AND GRANTS

6 active external grants (3 NSF, 2 KIAT, 1 KEIT, 1 Navy, 1 DoD) 2 completed (1 Navy, 1 NSF) as of Jan 2025

- NSF - Division of Electrical Communications and Cyber Systems (ENG/ECCS, 2054567), Acitive
- NSF - Division of Electrical Communications and Cyber Systems (ENG/ECCS, 2029086), Completed
- NSF - Division of Electrical Communications and Cyber Systems (ENG/ECCS, 2039014) Acitive
- DoD SBIR OSD222-D02, Active
- Navy SBIR N221-085, Completed
- Korea Evaluation Institute of Industrial Technology, 20018023, Active
- Korea Institute of Advanced Technology P163800009 (2), Active

Candidates for the Technical Group C-6 Councilor

Mingon Kang

Associate Professor
Computer Science
University of Nevada, Las Vegas

EDUCATION

2015	Ph.D. in Computer Science, University of Texas at Arlington, TX, USA
2010	M.S. in Computer Science, University of Texas at Arlington, TX, USA
2006	B.E. in Computer Engineering, Hanyang University, ERIA, South Korea

PROFESSIONAL EXPERIENCE

2024-Present	Associate Professor, Computer Science, University of Nevada Las Vegas
2019- 24	Assistant Professor, Computer Science, University of Nevada Las Vegas
2016-19	Assistant Professor, Computer Science, Kennesaw State University
2015-16	Ad-interim Assistant Professor, Computer Science, Texas A&M University-Commerce

KSEA ACTIVITIES

2024-Present	Organizing member at The Korean Computer Scientists and Engineers Association in America (KOCSEA)
2022	President at The Korean Computer Scientists and Engineers Association in America (KOCSEA)
2015–21	Organizing member at The Korean Computer Scientists and Engineers Association in America (KOCSEA)
2014	1st place in KOCSEA Moon-Jung Chung Scholarship
2013	KSEA-KUSCO Graduate Scholarship

RESEARCH LEADERSHIP AND PUBLICATIONS

- Main Area of Research: Interpretable machine/deep learning in Bioinformatics, Evidential deep learning. Data integration, LASSO, Omics-data analysis, AI in digital pathology, Fairness ML
- +40 papers in peer-reviewed journals, +30 papers in peer-reviewed conferences.

1. E. Ko, Y. Kim, F. Shokoohi, T. Mersha†, M. Kang, SPIN: Sex-specific and Pathway-based Interpretable Neural Network for Sexual Dimorphism Analysis (2024), Briefings in Bioinformatics, 25 (4), bbae239 (PMID: 38807262)
2. S-R Han, M Park, S Kosaraju, J Lee, H Lee, J Lee, T-J Oh, M Kang, Evidential deep learning for trustworthy prediction of enzyme commission number (2024), Briefings in Bioinformatics, 25 (1), bbad401 (PMID: 37991247)
3. M. Kang, E. Ko, T. Mersha, A roadmap for multi-omics data integration using deep learning (2022), Briefings in Bioinformatics, 23 (1), bbab454 (PMID: 34791014)
4. J. Oh, W. Choi, E. Ko, M. Kang, A. Tannenbaum, J. Deasy, PathCNN: interpretable convolutional neural networks for survival prediction and pathway analysis applied to glioblastoma

Candidates for Technical Group C-8 Councilor

Jeong Hoon Choi

Associate Professor
Williamson College of Business Administration
Youngstown State University, Youngstown, OH

EDUCATION

2011	Ph.D. in Supply Chain and Operations Management, University at Buffalo, The State University of New York at Buffalo, Buffalo, NY
2007	Master of Science in Supply Chain and Operations Management, University at Buffalo, The State University of New York at Buffalo, Buffalo, NY
2006	MBA, Seoul National University, Seoul, Korea
2000	BBA, Seoul National University, Seoul, Korea

PROFESSIONAL EXPERIENCE

2022–Present	Associate Professor, Williamson College of Business Administration, Youngstown State University, Youngstown, OH
2019–22	Associate Professor, College of Business and Technology, University of Nebraska at Kearney, Kearney, NE
2016–19	Assistant Professor, College of Business and Technology, University of Nebraska at Kearney, Kearney, NE
2011–16	Assistant Professor, College of Business Administration, The University of Akron
2000–04	Consultant, Accenture, Seoul, Korea

MY EXPECTED CONTRIBUTIONS

- Facilitating Collaboration: Collaborate with academic researchers and industry practitioners in the U.S. and Korea to build a vibrant community.
- Promoting Knowledge Exchange: Help organize TG-8 symposiums and workshops at UKC that highlight cutting- edge topics.
- Mentoring Future Leaders: Support early-career scientists and engineers in achieving their full potential through mentorship, networking opportunities, and career development initiatives tailored for Korean American professionals.

KSEA ACTIVITIES

2022–23	UKC 2023 C-8 IMS Track Symposium Chair, Dallas, TX
2020–21	UKC 2021 C-8 IMS Track Symposium Chair, Los Angeles, CA
2023–Present	Secretary, KSEA Ohio Chapter
2014–Present	KSEA Member (Ohio chapter)

PROFESSIONAL ACTIVITIES

2024–Present	President-Elect, Midwest Decision Sciences Institute
2023–24	Vice President for Conference Planning, Midwest Decision Sciences Institute
2023–24	Conference Chair, 2024 Midwest Decision Sciences Institute Conference
2021–23	Secretary, Midwest Decision Sciences Institute
2020–22	CBT Graduate Program Chair, University of Nebraska at Kearney
2018–20	Author for Global Report Section in Quality Management (품질경영)

RESEARCH PUBLICATIONS (SELECTED)

- Lee, C.C., Choi, JH, Lee, JY, Fortsch, S. (2025). Impacts of cybersecurity on hospital efficiency and financial performance. Service Business, Vol. 19 No. 3. https://doi.org/10.1007/s11628-024-00574-y.
- Choi, JH, Choi, S., Suresh, N. (2024). Inventory and financial performance in the pharmaceutical Industry: What transpired over the last two decades? International Journal of Operations & Production Management, Vol. 44 No. 10. https://doi.org/10.1108/IJOPM-07-2022-0461.
- Fortsch, S., Choi, JH, Khapalova, E. (2022). Competition can help predict sales. Journal of Forecasting, Vol. 41, No. 2, pp 331-344. https://doi.org/10.1002/for.2818.
- Park, I., Jung, I., Choi, JH. (2020). Market competition and pricing strategies in retail supply chains. Managerial and Decision Economics, Vol. 41, No. 8, pp 1528 – 1538. https://doi.org/10.1002/mde.3200.
- Yook, K., Choi, JH, Suresh, N. (2018). Linking green purchasing capabilities to environmental and economic performance: The moderating role of firm size. Journal of Purchasing & Supply Management, Vol. 24, pp 326 – 337. https://doi.org/10.1016/j.pursup.2017.09.001.
- Choi, JH, Fortsch, S., Park, I., Jung, I. (2017). Efficiency of U.S. hospitals between 2001 and 2011, Managerial and Decision Economics, Vol. 38 Issue 8, pp 1071 – 1081. https://doi.org/10.1002/mde.2846.
- Choi, JH, Park, I., Jung, I., Dey, A. (2017). Complementary effect of patient volume and quality of care on hospital cost efficiency. Health Care Management Science, Vol. 20 Issue 2, pp 221 – 231. https://link.springer.com/article/10.1007/s10729- 015-9348-9.

Candidates for Technical Group C-8 Councilor

Karl Kwon

Lead Visualization Software Engineering
MITRE Lab
MITRE Corporation

EDUCATION

Ph.D. in Computer Science, University of Houston, TX
M.S.. in Computer Science, University of Houston, TX
B.S. in Computer Science, Sejong University, Seoul, Korea

PROFESSIONAL EXPERIENCE

2022-Present CEO and Founder at Data Insider
2020-Present Developing advanced visual analytics, AI-powered dashboards, and custom data solutions.

Key projects:

- Led FCC's Broadband Health platform redesign, adding ~100 new data variables.
- Built LLM evaluation leaderboard for FAA (Award-winning).
- Developed real-time dashboards for Air Force MINERVA, processing thousands of records daily.
- Mentored engineers, ensuring timely delivery of high-quality solutions.

2019-20 Founding Engineer, Blackboard Insurance (AIG Startup) – Shaped data architecture and strategy.

2017-19 Director of Engineering, in4mation insights – Led development of media optimization and market research data apps, delivering solutions for Coca-Cola Japan, Unilever, and Chick-fil-A.

2011-16 PhD Research - Published several papers in top-tier international conferences and journals, including IEEE, ACM, and Science Advances (400+ citations), contributing to advancements in data visualization and methodologies.

2005-10 Software Engineer, TmaxSoft - Led the design of a core banking system that expanded global transaction coverage by 40%, delivered high-performance enterprise software solutions using J2EE, Spring, and Oracle for the finance and insurance sectors.

KSEA / APS ACTIVITIES

2023-Present Committee, KSEA Scientists and Engineers Early Career Development (SEED) 2024

2023-Present General Secretory, Korean-American Society of Civil, Environmental, and Architectural Engineers (KSCEA)

PROFESSIONAL ACTIVITIES

- KOCSEA Sponsorship Committee 2025-2028
- KSEA New England Chapter YG Director 2018
- KOCSEA Symposium Committee 2017-2024
- KSEA Ygnite Committee
- KSEA South Texas 2012-2016

RESEARCH LEADERSHIP AND PUBLICATIONS

1. Cross-disciplinary evolution of the genomics revolution, AM Petersen, D Majeti, K Kwon, ME Ahmed, I Pavlidis Science advances
2. Subjectbook: hypothesis-driven ubiquitous visualization for affective studies, S Taamneh, M Dcosta, KA Kwon, I Pavlidis Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors
3. Interfacing information in affective user studies, Kyeong-An Kwon, Dvijesh Shastri, Ioannis Pavlidis, Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication
4. Continuous mobile authentication using touchscreen gestures T Feng, Z Liu, KA Kwon, W Shi, B Carbunar, Y Jiang, N Nguyen 2012 IEEE conference on technologies for homeland security (HST), 451-456

Candidate for the Technical Group D-1 Councilor

So Yoon Yoon

Assistant Professor
Dept. of Engineering and Computing Education
University of Cincinnati
Cincinnati, OH, USA

EDUCATION

2011	Ph.D. in Educational Psychology with a specialty in Gifted Education, Purdue University, IN, USA
2011	M.S.Ed. M.S. in Research Methods and Measurement, Educational Psychology, Purdue University, IN, USA
1995	M.S. in Astronomy and Astrophysics, Kyungpook National University, Daegu, South Korea
1993	Astronomy & Meteorology, Kyungpook National University, Daegu, South Korea

PROFESSIONAL EXPERIENCE

2021-Present	Assistant Professor, University of Cincinnati, Cincinnati, Cincinnati, OH
2019-21	Research Scientist, University of Cincinnati, Cincinnati, OH
2016-19	Assistant, Associate Research Scientist, Texas A&M University, College Station, TX
2013-16	Postdoctoral Research Fellow, Texas A&M University, College Station, TX
2011-13	Postdoctoral Research Fellow, INSPIRE, Purdue University, West Lafayette, IN
2011-13	Postdoctoral Research Fellow, INSPIRE, Purdue University, West Lafayette, IN
1998	Research Assistant, Division of Optical Astronomy, Korea Astronomy and Space Science Institute, Daejeon, South Korea
1996-97	Research Assistant, Solar Flare Telescope Team, Bohyunsan Optical Astronomy Observatory, Youngcheon, South Korea

KSEA ACTIVITIES

2024-Present	TG D-1 Councilor
2023-Present	Southwest Ohio Local Chapter member

PROFESSIONAL ACTIVITIES

2024-Present	IEEE/ASEE Frontiers in Education (FIE) Steering Committee as a representative of IEEE
2023-24	IEEE/ASEE FIE Technical Planning Committee (TPC) Chair/Sr. member as an ASEE (American Society for Engineering Education) ERM Representative
2022-23	IEEE/ASEE FIE TPC Jr. member an ASEE ERM Representative

RESEARCH PUBLICATIONS (SELECTED)

Authored/co-authored more than 90 peer-reviewed journal articles (33) and conference proceedings (60) and served as a journal reviewer in engineering education, STEM education, and educational psychology.

1. Mendoza Diaz, N. V., Yoon, S. Y., Trytten, D., & Meier, R., (2023). Development and validation of Engineering Computational Thinking Diagnostics for undergraduate students. IEEE Access, 11.
2. Yoon, S. Y., Aldridge, J. L., Cox, M. F., Main, J. B., McGee, E. O., & Hailu, M. F. (2023). Development and validation of the workplace climate scale for STEM faculty framed in intersectionality of gender, race/ethnicity, and class. Research in Higher Education, 64, 933-958.
3. Yoon, S. Y., & Holtzapple, M. T. (2021). Longitudinal effects of the Foundation Coalition curriculum on graduation outcomes of chemical and petroleum engineering students. International Journal of Engineering Education, 37(6), 1683-1699.
4. Yoon, S. Y., Imbrie, P. K., Reed, T., & Shryock, K. J. (2019). Identification of the engineering gateway subjects in the second-year engineering common curriculum. International Journal of Engineering Education, 35(1A), 232-251.

AWARDS AND HONORS

2019	IEEE/ASEE FIE (Frontiers in Education) Best Diversity Paper Award
2019	ASEE ENT (Entrepreneurship and Engineering Innovation)/ KEEN Division 2nd Best New Idea Paper Award
2017	Publons/Web of Science: Top 1 % Pre-publication Peer Reviewer Award in Social Science
2014	ASEE ERM (Educational Research and Methods) Division Best Paper Award
2013	ASEE K-12 and Pre-college Engineering Division Best Paper Award

RESEARCH ACTIVITY AND GRANTS

Served as a PI, co-PI, advisory board member, or external evaluator on several NSF- and NASA-funded projects (NSF: CAREER, ECR, iCorps, REU, RIEF, RFE, STEM+C; NASA: MCA, MIRO, etc.)

- NASA-MUREP INCLUDES Awards: Oct. 1, 2024 – Sep. 30, 2027
- NSF: RIEF (#2406954): Sep. 1, 2024 – Aug. 31, 2026
- NASA-MUREP Curriculum Awards (MCA): Oct. 1, 2023 – Sep. 31, 2026
- NSF: ECR (#2201101): Aug. 1, 2022 – Jul. 31, 2026
- NSF: RIEF (#2106229): Jul. 1, 2021 – Dec. 30, 2024
- NSF: RIEF (#1640521): Sep. 15, 2016 – Aug. 31, 2020

Candidate for the Technical Group D-2 Councilor

Kyeong Ho Yang

Co-founder & CTO
Vilacesti Inc.

EDUCATION

1995	Ph.D. in Electronics Engineering Seoul National University
1989	M.S. in Electronics Engineering Seoul National University
1987	B.E. in Electronics Engineering Seoul National University

PROFESSIONAL EXPERIENCE

2018–Present	Cofounder & CTO Vilacesti Inc. (also Vilacesti Ghana)
2021–Present	President & CEO SciTech Startup Partners Inc. (KSEA)
2020–Present	President & CEO, KoAm Partners Corp.
2008–24	R&D Director, Vidyo Inc. / Dialogic Inc.
2013–Present	Fellow iNetS at Stevens Institute of Technology
2003–08	Technical Manager, EG Technology Inc.
2003–06	Cofounder and VP of Engineering GEO Interactive Inc.
1996–03	Member of Technical Staff Bell Laboratories, Lucent Technologies
1995–96	Research Staff Institute of New Media and Communications, Seoul National University

KSEA ACTIVITIES

2004	Chair, STEP-UP 2024 (Science and Technology Entrepreneurship Partners' Upscale Program)
2023–Present	KSEA Honors and Awards Committee (Chair, 2024-2025)
2020–Present	KSEA SME Committee
2022-23	KSEA Nomination Committee
2023	Chair, Keynote Symposium on Future Careers in Technology in the US-Korea Conference (UKC) 2023
2022	Chair, Innovation and Entrepreneurship Symposium (IES) at UKC 2022
2021	Chair, IES at UKC 2021
2021	Chair, STEP-UP 2021 (2nd STEP-UP)
2020	Co-Chair, IES at UKC 2020
2020	Founding Chair, STEP-UP 2020
2017–20	KSEA APS Committee (Chair: 19~20)
2018–20	Entrepreneurship Director (47th and 48th)
2019	Chair, UKC 2019 LG AI Forum
2019	Co-Chair, UKC 2019 IES & SPC
2018	Chair, UKC 2018 LG AI Forum (NY)
2006–08	KSEA Rules Committee

LOCAL / REGIONAL (selected)

2004–Present	Member, New Jersey Chapter Council (Chair: 2013-14, 2019-Present)
2020–24	Chair, KSEA NRC Steering Committee
2016–24	Chair, KSEA NRC Fundraising Committee
2021–22	Member, KSEA NRC History Committee
2005, 2006	Chair, KSEA NRC Fundraising Committee
2004	Chair, Northeast Regional Conf. (NRC)
2003–04	President KSEA New Jersey Chapter
2003	Co-Chair KMSO 2003 (Math and Science Olympiad)
2003	Co-Chair KSEA NRC Program Co-Chair
2002–03	VP, KSEA New Jersey Chapter

KSEA APS (Affiliated Professional Society)

2020–Present	President, Korean-American Innovative Technology Engineers and Entrepreneurs (KITEE)
2024	Chair, The 2nd KITEE Entrepreneurship Forum
2023	Chair, The 1st KITEE Entrepreneurship Forum
2015-20	Founder & VP, KITEE

PROFESSIONAL ACTIVITIES

2024–Present	Program Chair, the 23rd World Korean Business Convention (Atlanta, GA. by KACCUSA)
2024–Present	Committee member, IEEE Arun N. Netravali Video Analytics, Technology, and Systems Award Committee
2023	Chair, World K-Startup Forum (at 1st World Conference of Korean Scientists & Engineers
1996–Present	Reviewer of multiple journals including IEEE Trans. on Image Processing and IEEE Trans. on CAS for Video Technology
2007	Committee Member, Marconi Society Symposium

RESEARCH LEADERSHIP AND PUBLICATIONS

- About 50 papers in peer-reviewed journals and conferences
- 40 U.S. and EU patents with several additional pending
- My application of digital signal processing to video coding and multimedia communications in the late 1990s and early 2000s led to many significant advances in the respective fields.

AWARDS AND HONORS

2022	KSEA Outstanding Service and Contributions
2013–21	Dialogic Patent Program Award, 1st place
2010, 2012	Dialogic Patent Program Award, 2nd place
2011	Dialogic Patent Program Award, 3rd place

NOTABLE RESEARCH ACCOMPLISHMENTS

Over 20 US patents of mine have been implemented in products used in multimedia communication services including Verizon Wireless.