

2020 KWiSE Virtual Conference



# Women Scientists in Society

October 10, 2020 (Saturday)

Noon–3pm EDT (9am–noon PDT)

Pre-registration required

<https://www.eventbrite.com/e/2020-kwise-virtual-conference-tickets-119830643681>

# SPEAKERS

### Current Appointments at UMD

- Co-Director; Brain and Behavior Initiative (BBI)
- Co-Director; MPower Initiative on Brain Health and Human Performance

### Research Interests

The goal of my research is to understand how experience differentially influences the juvenile versus adult mammalian brain. A primary focus is the role of experience in the regulation of the visual system. Pioneering work in the mammalian visual system demonstrated a significant decline in experience-dependent synaptic plasticity over the course of postnatal development. One of the severe consequences of the loss of experience-dependent synaptic plasticity is the inability to recover from form-deprivation amblyopia (Amblyopia ex anopsia) caused by a unilateral congenital cataract. If untreated, neurons in the binocular cortex become dominated by the unaffected eye, and resistant to recovery by removal of the cataract. Recently we have developed a method (binocular visual deprivation through dark exposure) that allows for the recovery from severe amblyopia in rodents, even when a monocular occlusion is initiated immediately at eye opening and continues until adulthood. This work was recognized with the Advancement of Science Award by the Neuro-Optomeric Rehabilitation Association. Currently, we use a multidisciplinary analysis that includes electrophysiology, opto- and chemogenetics, morphometry and visual psychophysics, to characterize the functional consequences, and the molecular mechanisms, by which dark exposure promotes the recovery from chronic deprivation amblyopia.



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# Elizabeth Quinlan

## Rejuvenation of plasticity in the adult cortex to reverse visual deficits

# So Young Kim

A myth of so few women (to hire or promote) in S&T

Prof. So Young Kim is an Associate Professor at the Graduate School of Science, Technology, and Policy at KAIST. She graduated from Seoul National University with English Education for the BA and Political Science for the MA. She then earned her Ph.D. and M.S. from Northwestern University with Fulbright Scholarship specializing in International Political Economy and Mathematical Methods in Social Sciences. Prof. Kim worked as a data archivist for the Social Science Computing Center at the University of Chicago and taught as an assistant professor at Florida Atlantic University before joining KAIST. Her research deals with high-stake issues at the interface of S&T and public policy such as government R&D funding and evaluation, basic science policy, science advising, science & engineering workforce, science-based ODA, and global governance of emerging technologies. Her scholarly work includes publications in International Organization, Journal of Asian Survey, Science and Public Policy, Journal of Science & Technology Studies, and STI Policy Review as well as the edited volume of Science and Technology Policy: Theories and Issues and co-authored volume of the Spector of the Fourth Industrial Revolution.



# Domin Lee

## 3D Visualization using VFX Techniques

**Director of Visualization**

**Lead Effects Artist, Dreamworks Animation**

Domin Lee is a co-founder and Director of Visualization at a non-profit organization, SoDAVi Group. He has been applying various vfx techniques to visualize social data that can be easily consumed by general audiences. He also works as FX Supervisor at DreamWorks and has been in the animation industry for over thirteen years. His credits include "Ratatouille", "Kung Fu Panda", "How to Train Your Dragon 2 & 3", and "Abominable". He has been developing systems and methods to offer solutions for complicated effects in animated feature films. His most recent work was nominated for Best FX for Feature at [47th ANNIE Awards](#) and for Outstanding Effects Simulations in an Animated Feature at [18th Annual Visual Effects Society Awards](#). Domin also recently started working as Adjunct Faculty at School of Cinematic Arts, University of Southern California. He enjoys teaching students about many different areas of 3D animation.



# Seung-Hee Yoo

Genetic and pharmacological  
manipulation of circadian rhythms in  
pathophysiology

Assistant Professor  
BCB Graduate Program  
UTHS





# **Jeonghee Kim**

The future of healthcare: wearable,  
mobile, and non-invasive technology  
for health

**Assistant Professor**

**Department of Electrical  
and Computer  
Engineering**

**Texas A & M University**



# Sohyun Park

Rethink your drink: Reducing  
sugar-sweetened beverage  
intake among Americans

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Team Lead/Lead Epidemiologist, Epidemiology and  
Surveillance Team

Obesity Prevention and Control Branch

Division of Nutrition, Physical Activity and Obesity

National Center for Chronic Disease Prevention &  
Health Promotion, CDC





# Jung Joo (JJ) Hwang

UNCHARTED PATHS OF WOMEN SCIENTISTS  
IN EVOLVING SOCIETY

Director, International Innovation Initiative (i3), California Institute for  
Telecommunications and Information Technology (Calit2)

Director, Global Partnership-Korea, Institute for the Global  
Entrepreneur (IGE) University of California San Diego

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Dr. Hwang currently manages several Korean projects, while developing and implementing new strategies for international educational programs and multi-discipline research collaborations in health, energy, environment & art and culture areas. At Institute for the Global Entrepreneur (IGE), Dr. Hwang is also managing the Global Entrepreneur Accelerator program. Dr. Hwang brings over 25 years of experience of international project development and management, strategic/operational planning and consulting in Korea, France, and the US, both from academia and industrial fields.





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한국여성과학기술단체총연합회  
Korea Federation of Women's Science & Technology Associations

# “Frontier of Korea -U.S. S&T Cooperation!”

The Korea-U.S. Science Cooperation Center (KUSCO) is a non-profit organization, established in Vienna, Virginia in 1997.

KUSCO was established to accomplish two major missions: to enhance cooperative efforts in S&T between Korea and the U.S. and to support Korean-American scientists & engineers here in the United States.

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### KUSCO Programs

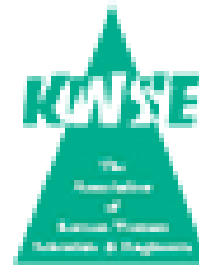
KUSCO Programs are composed of three categories; Nurturing Human Resource & Exchange, Strengthening S&T Cooperation, and Developing Infrastructure for S&T Professionals.

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The Association of  
Korean Woman Scientists & Engineers



재미한인과학기술자협회

**KSEA**

Korean-American Scientists and Engineers Association



**KAPAL**

Korean-American Professional  
Association in Life Sciences  
한미생명과학인협회



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