Yung Kyung Park

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CONTACT

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EDUCATION

Period	Degree	Institution
Sep 2004 – Jan 2009	Ph.D., Colour & Imaging Science	University of Leeds, UK
Mar 2001 – Aug 2003	M.S., Physics	Ewha Womans University, Korea
Sep 2001 – Jan 2003	M.Sc., Colour Science	University of Derby, UK
Mar 1997 – Feb 2001	B.S., Physics (Minor: Mathematics)	Ewha Womans University, Korea

PROFESSIONAL EXPERIENCE

Period	Position	Organization
Mar 2024 – Present	Professor	Department of Design, College of Art & Design, Ewha Womans University
Mar 2018 – Feb 2024	Associate Professor	Department of Design, College of Art & Design, Ewha Womans University
Mar 2012 – Feb 2018	Assistant Professor	Department of Design, College of Art & Design, Ewha Womans University
Jan 2010 – Jan 2012	Senior Research Engineer	LCD R&D Center, LCD Business, DS Division, Samsung Electronics

Professional affiliation: Member, Korean National Committee of the CIE (KCIE)

Research interests: Color appearance modeling, color emotion, display image quality, cosmetic and skin color measurement

RESEARCH GRANTS AND INDUSTRY PROJECTS

All projects as Principal Investigator.

Period	Project	Sponsor
Jul 2026 – Dec 2026	Development of Color Matching Logic, Phase 2	COSMAX Inc.
Apr 2026 – Dec 2026	Development of Core Technologies for High-Resolution Freeform Displays with Sensor Fusion-Based Real-Time Deformation-Adaptive Image Self-Compensation (joint research)	National Research Foundation of Korea (NRF)
Apr 2026 – Dec 2026	Development of Key-Enabling Technologies for Ultrasonic-Based Spatial Touch and Haptic Sensor Integrated Stretchable Transformable Display Systems (subcontract)	National Research Foundation of Korea (NRF)
Jan 2026 – Oct 2026	Point Makeup Color Palette Development Based on Regional Skin and Makeup Characteristics (India, ASEAN, Middle East)	Kolmar Korea Co., Ltd.
Jan 2026 – Jun 2026	Development of Color Matching Logic, Phase 1	COSMAX Inc.
Jan 2025 – Dec 2026	Global Shade R&D: Medium/Tan Shades	Kolmar Korea Co., Ltd.
Feb 2024 – Dec 2024	Global Shade R&D: Dark/Pale Shades	Kolmar Korea Co., Ltd.
Sep 2023 – Apr 2025	Development of an Evaluation Method for Vehicle Interior Lighting	SL Corporation
Mar 2022 – Sep 2023	Defining UX Principles for Optimal User Experience on Ultra-Large Screens	Samsung Electronics
Mar 2022 – May 2023	Resolution-Free Effect of MicroLED Displays	Samsung Electronics
Dec 2021 – Nov 2022	Image Quality Strengths of LED Displays and Perceptual Criteria for Color Differences	LG Electronics
Jun 2021 – May 2022	Quantifying the Color Superiority of QD Displays	Samsung Display

Nov 2020 – Nov 2021	UI Design Guidelines for Modular Screens	Samsung Electronics
Aug 2020 – Dec 2020	Color Coding of Medical Information and Optimal Implementation by Material (COVID-19 Response S&T New Deal Program)	KAIST
May 2020 – Dec 2021	Measurement and Classification of Skin and Product Colors in Digital Environments	LG H&H

SELECTED PUBLICATIONS (2013-)

1. Park, Y. K. (2026). Sensitivity of achromatic color considering visual attention. *Color Research & Application*, 51(1), e70015.
2. Park, Y. K. (2022). Determining the color appearance of Helmholtz–Kohlrausch effect for self-emissive displays. *Journal of Information Display*, 23(3), 235–242.
3. Kim, B. R., Kim, S. H., Ko, J. S., Baek, S. W., Park, Y. K., Kim, Y. J., & Yoon, J. S. (2021). A pilot clinical study of ocular prosthesis fabricated by three-dimensional printing and sublimation technique. *Korean Journal of Ophthalmology*, 35(1), 0125.
4. Park, D., & Park, Y. (2021). Color quality for large microLED TV. *SID Symposium Digest of Technical Papers*, 52(1), 149–152.
5. Choi, J. C., Lee, J. W., Lee, D. J., Park, Y. K., & Kim, H. R. (2021). Flicker-free fringe-field switching liquid crystal display operable at extremely low frequencies for power saving. *Advanced Engineering Materials*, 23(9), 2100174.
6. Jun, J., Han, E. J., Min, J. H., & Park, Y. K. (2021). Color coding strategy utilizing stripe patterns for hierarchical environmental information design. *Archives of Design Research*, 34(3), 229–241.
7. Park, D. E., Kim, Y. J., & Park, Y. K. (2020). Cognitive effect on image quality in full ultra-high definition (8K). *Journal of Information Display*, 21(2), 103–111.
8. Choi, H. J., Park, Y., Lee, H., Joo, K. I., Lee, T. H., Hong, S., & Kim, H. R. (2020). Compensation of color breaking in bi-focal depth-switchable integral floating augmented reality display with a geometrical phase lens. *Optics Express*, 28(24), 35548–35560.
9. Jo, J. H., Park, Y., & Lee, S. W. (2020). Lightness prediction of mirror display by amending CIECAM02 to include specular reflection. *Optics Express*, 28(18), 27123–27136.
0. Won, S., Lee, Y. J., & Park, Y. K. (2020). The impact of signboard–building color combinations on color harmony and legibility. *Color Research & Application*, 45(3), 527–541.
1. Park, D., Seo, W., Cho, J. E., Hong, H. R., Kim, Y. J., & Park, Y. K. (2020). Visual advantages of curved displays for working efficiency. *SID Symposium Digest of Technical Papers*, 51(1), 1423–1426.
2. Kim, M., Jo, J. H., Park, Y. K., & Lee, S. W. (2019). Amendment of CIECAM02 with a technical extension to compensate Helmholtz–Kohlrausch effect for chromatic characterization of display devices. *Displays*, 56, 1–10.
3. Park, D., Kim, Y. J., & Park, Y. K. (2019). Hyperrealism in full ultra high-definition 8K display. *SID Symposium Digest of Technical Papers*, 50(Book 2), 1138–1141.
4. Jang, H., Yoon, J., Kim, Y. J., & Park, Y. (2018). Classification of iris colors and patterns in Koreans. *Healthcare Informatics Research*, 24(3), 227–235.
5. Park, Y. K., Kim, Y. J., & Park, D. (2018). Human factors of UHD viewing experiences for two different age groups. *Journal of Information Display*, 19(1), 25–37.
6. Kim, M., Jeon, D. H., Kim, J. S., Yu, B. C., Park, Y., & Lee, S. W. (2018). Optimum display luminance depends on white luminance under various ambient illuminance conditions. *Optical Engineering*, 57(2), 024106.
7. Park, D. E., & Park, Y. K. (2018). The characteristic of image quality perception of elderly group: According to the comparison with adult group. *Journal of Information Display*, 19(3), 111–120.
8. Park, Y. K., & Kim, Y. J. (2016). Enhancement of perceived sharpness by chroma contrast. *IS&T International Symposium on Electronic Imaging*.
9. Kim, Y., Park, D., & Park, Y. K. (2016). Image quality assessment comparison between local and whole color rendering on large display. *IS&T International Symposium on Electronic Imaging*.
0. Park, Y. K., Kim, H., Seo, Y. J., & Kim, Y. J. (2016). Lightness perception for different size displays under various surround conditions. *IS&T International Symposium on Electronic Imaging*.
1. Kim, Y., Park, J., Jun, Y., Kim, H., Seo, Y. J., & Park, Y. (2016). Visual comfort of head mounted displays. *Proceedings of the 23rd International Display Workshops (IDW/AD 2016)*, Vol. 3, 1662–1664.
2. Park, Y. K., & Park, D. E. (2015). Evaluation for the usage of HUD contents depending on gender while driving. *SIGGRAPH Asia 2015 Head-Up Displays and their Applications*, Article 4. ACM.
3. Park, Y. K., Luo, M. R., Li, C. J., & Kwak, Y. (2015). Refined CIECAM02 for bright surround conditions. *Color Research & Application*, 40(2), 114–124.
4. Park, Y., Luo, M. R., Li, C. J., Kwak, Y., Park, D. S., & Kim, C. (2013). Correcting veiling glare of refined CIECAM02 for mobile display. *Color Research & Application*, 38(1), 14–21.

PATENTS

1. Display adjustment apparatus and method for image quality enhancement using image category and background information. KR 10-2011-0038924 A.

2. System and method for image quality enhancement reflecting emotion according to TV video content. KR 10-2010-0038829 A.
3. Apparatus and method for determining representative iris color for ocular prosthesis standardization. KR 10-1797533 B1.
4. Display adjustment apparatus and method for image quality enhancement using image category and human skin recognition information. KR 10-2011-0038934 A.
5. Electrowetting display apparatus and method of manufacturing the same. US 9,607,557 B2.