

# INCHUL KIM (Incheol Kim)

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## APPOINTMENTS

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2021–2022      PTERS company (currently ALOGIC), South Korea, Software Engineer  
– Front-end and back-end web development

2017–2018      [Graphics and Imaging Lab](#), Universidad de Zaragoza, Spain, Research Assistant  
– Research on reducing visual discomfort in virtual reality video playbacks

2010–2012      Republic of Korea Air Force (compulsory military service)

## EDUCATION

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2022–Present      **KAIST, South Korea, PhD Candidate in Computer Science**  
– Supervisor: [Prof. Min H. Kim](#)

2015–2017      **KAIST, South Korea, MSc in Computer Science**  
– Supervisor: [Prof. Min H. Kim](#)  
– Thesis: Dehazing using Non-Local Regularization with Iso-Depth Neighbor-Fields

2009–2015      **Hanyang University, South Korea, BSc in Computer Science**  
– Summa Cum Laude

## PROJECTS

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2024–Present      **Hyperspectral Video Camera**, National Research Foundation of Korea (NRF), South Korea  
– Developing a real-time hyperspectral video capture and reconstruction system

2022–2024      **Intra-oral Scanner**, Dentium, South Korea  
– Research on a robust, real-time 3D reconstruction using an RGBD camera

2016–2017      **High Dynamic Range Video**, Electronics and Telecommunications Research Institute (ETRI), South Korea  
– Research on a next-generation codec for high dynamic range video compression

## AWARDS/FELLOWSHIPS

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- National Scholarship: Full Tuition for Graduate Study, Korean Government (2022–)
- [KAIST Breakthroughs](#), KAIST, 2017  
– Compact hyperspectral imaging at low cost (presented at [ACM SIGGRAPH Asia 2017](#))
- National Scholarship: Full Tuition for Graduate Study, Korean Government (2015–2017)
- National Science and Engineering Undergraduate Scholarship, Korean Government (2013–2014)

## ACADEMIC SERVICE

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### Reviewer:

- IEEE Computer Vision and Pattern Recognition (**CVPR**) 2024, 2025, 2026
- IEEE Transactions on Image Processing (**TIP**) 2024
- IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2024, 2025
- IEEE Transactions on Visualization and Computer Graphics (**TVCG**) 2024
- Optics Express (**OE**) 2024

## PUBLICATIONS

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### Refereed International Journals:

- [J1] Kiseok Choi, Inchul Kim, Jaemin Cho, Hyeongjun Cho, and Min H. Kim (2026), “**Splat-based Metal Artifact Reduction in Cone-Beam CT via Polychromatic Modeling**,” *Computer Graphics Forum (CGF)*, proceedings of Eurographics, 2026.
- [J2] Ana Serrano, Incheol Kim, Zhili Chen, Stephen DiVerdi, Diego Gutierrez, Aaron Hertzmann, and Belén Masiá (2019), “**Motion Parallax for 360° RGBD Video**,” *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 54(5):1817–1827, 2019. [\[project\]](#) [\[pdf\]](#)
- [J3] Seung-Hwan Baek, Incheol Kim, Diego Gutierrez, and Min H. Kim (2017), “**Compact Single-Shot Hyperspectral Imaging Using a Prism**,” *ACM Transactions on Graphics (TOG)* (presented at *SIGGRAPH Asia 2017*), 36(6):217:1–12, 2017. [\[project\]](#) [\[pdf\]](#)

### Peer-reviewed International Conferences:

- [C1] Kiseok Choi, Inchul Kim, Dongyoung Choi, Julio Marco, Diego Gutierrez, and Min H. Kim (2023), “**Self-Calibrating, Fully Differentiable NLOS Inverse Rendering**,” *Proceedings of ACM SIGGRAPH Asia 2023*, Sydney, Australia, Dec. 12–15, 2023. [\[project\]](#) [\[pdf\]](#)
- [C2] Donggun Kim, Hyeonjoong Jang, Inchul Kim, and Min H. Kim (2023), “**Spatio-Focal Bidirectional Disparity Estimation from a Dual-Pixel Image**,” *IEEE Computer Vision and Pattern Recognition (CVPR) 2023*, Vancouver, Canada, Jun. 18–22, 2023. [\[project\]](#) [\[pdf\]](#)
- [C3] Incheol Kim and Min H. Kim (2019), “**Non-local Haze Propagation with an Iso-Depth Prior**,” *Computer Vision, Imaging and Computer Graphics – Theory and Applications*, pp 213–238, 2019. [\[project\]](#) [\[pdf\]](#)
- [C4] Incheol Kim and Min H. Kim (2017), “**Dehazing using Non-local Regularization with Iso-depth Neighbor-Fields**,” *International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2017) – Volume 4: VISAPP*, pages 77–88, 2017. [\[project\]](#) [\[pdf\]](#)

### Patents:

- [1] Min Hyuk Kim, Seung-Hwan Baek, and Incheol Kim, “**Method for reconstructing hyperspectral image using prism and system therefor**,” US Patent: US20190096044A1, published in Mar. 28, 2019. [\[link\]](#)
- [2] Min Hyuk Kim, Seung-Hwan Baek, and Incheol Kim, “**Method and system for reconstructing hyperspectral image by using prism**,” PCT Patent: WO2019059632A1, published in Mar. 28, 2019. [\[link\]](#)
- [3] Min Hyuk Kim, Seung-Hwan Baek, and Incheol Kim, “**Method for reconstructing hyperspectral image using prism and system therefor**,” EU Patent: EP3460427A1, published in Mar. 27, 2019. [\[link\]](#)

## REFERENCES

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Prof. Min H. Kim

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