



Dongyoung Kim



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Dr Dongyoung Kim joined Reddie & Grose in June 2019 and handles patents in the fields of semiconductors, photonics, electronics, and electrical engineering.

Dongyoung holds a PhD in Semiconductor Photonics and an MEng degree in Electronic and Electrical Engineering, both from University College London (UCL). During his time at UCL, he had a placement at IBM Hursley Laboratory working as a test engineer for their server storage products. Before the final year of his MEng course, Dongyoung also gained experience in the areas of high voltage (HV) power distribution and control systems at Veolia Environmental Services' material and energy recovery facilities (MRFs & ERFs) where he worked as an electrical, control and instrumentation engineer.

Dongyoung's PhD research in the Molecular Beam Epitaxy (MBE) Research Group at UCL and at the London Centre for Nanotechnology (LCN) focused on developing III-V semiconductor nanostructures for terrestrial and extraterrestrial photovoltaic applications. He then spent another year at UCL as a post-doctoral researcher working on the growth and fabrication of III-V semiconductor QD laser devices on Si for photonic integrated circuits (PICs). He has expertise in the growths, fabrication and characterisation of thin films, quantum wells (QWs), nanowires (NWs) and quantum dots (QDs) made of III-V semiconductor compounds, including GaAs, InAs, InP, GaSb and AlAs, and II-VI semiconductor compounds, such as ZnO. Dongyoung also has experience in other novel materials, such as perovskite, two-dimensional (2D) materials (including graphene and MoS₂), and metamaterials.

Two of his main projects at UCL were funded by European Union's Horizon 2020 research and innovation programme (H2020), which involved close collaboration with many European institutes. His research work led to publications at internationally renowned conferences, such as IEEE Photovoltaic Specialists Conference, SPIE Photonics West Conference and European Space Power Conference by the European Space Agency (ESA), and in many high-impact scientific journals.

For his Master's research, Dongyoung worked on the mechanical and electrical properties of ZnO nanowires, for which he awarded the best MEng project of the year by the department.

Dongyoung is completely fluent in Korean and he volunteered as an English-Korean interpreter at the Olympic Stadium for the VIPs and athletes during the London 2012 Summer Olympics. In his spare time, Dongyoung enjoys DIY and playing football.

Publications

Up-to-date list of publications available on ResearchGate and Google Scholar

ResearchGate: https://www.researchgate.net/profile/Dongyoung_Kim8

Qualifications

- PhD in Semiconductor Photonics, University College London (2018)
- MEng Electronic and Electrical Engineering, University College London (2013)

Memberships

- Institute of Electrical and Electronics Engineers (IEEE)
- Society of Photo-optical Instrumentation Engineers (SPIE)

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