Beyond the Metaverse - Towards Human-centric XR

Gordon Wetzstein
Stanford University

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Virtual and augmented reality technology enables us to create unprecedented experiences, for example to meet people for work or fun in digital spaces. Users of this technology, however, would greatly benefit from enhanced visual comfort and perceptual realism of emerging XR displays. Moreover, the technology components developed for wearable computing systems can also augment human performance, for example by helping people see better or potentially improve their cognitive performance or sleep behavior. In this talk, we will discuss several ideas and emerging technologies that strive towards human-centric XR.

Short Biography: *Gordon Wetzstein is an Associate Professor of Electrical Engineering and, by courtesy, of Computer Science at Stanford University. He is the leader of the Stanford Computational Imaging Lab and a faculty co-director of the Stanford Center for Image Systems Engineering. At the intersection of computer graphics and vision, artificial intelligence, computational optics, and applied vision science, Prof. Wetzstein's research has a wide range of applications in next-generation imaging, wearable computing, and neural rendering systems. Prof. Wetzstein is a Fellow of Optica and the recipient of numerous awards, including an NSF CAREER Award, an Alfred P. Sloan Fellowship, an ACM SIGGRAPH Significant New Researcher Award, a Presidential Early Career Award for Scientists and Engineers (PECASE), an SPIE Early Career Achievement Award, an Electronic Imaging Scientist of the Year Award, an Alain Fournier Ph.D. Dissertation Award as well as many Best Paper and Demo Awards.*