

“The Beauty of Light Fields”

David Fattal

Leia Inc., Chief Innovator and CEO

From black and white to color, and desktop to mobile, our electronic devices are visual mediums that have rapidly evolved and advanced over the past century. New device technologies continue to add clarity and mobility, enhancing our viewing experience to be more convenient and closer to our reality. Today, more than ever, these devices have become indispensable information vehicles that are ingrained into every aspect of our daily lives.

The average person is now so acclimated to having these thousands of digital interactions each day, they're hungry for a more immersive experience. They're now ready for the next medium that will seamlessly enhance their lives and bridge the gap between real life and technology (without a headset). They're ready for light fields.

In this talk, David will discuss Lightfield as the next generation medium. He will explain how this emerging technology provides users with a fully interactive, lifelike viewing experience by rendering images and videos with 3D depth, and complex, realistic light effects such as sparkles, texture and highlights. He will also discuss how this type of technology will change the game for businesses by empowering them to provide end-users with more immersive and engaging experiences across industries including auto, retail, medical and education.

Biography:

David is co-founder, chief innovator and CEO at Leia Inc., a Silicon Valley company developing a light field display technology platform for mobile, retail, automotive, education, medical and beyond. He previously spent 9 years at HP Labs working on various aspects of quantum computing and photonics and specializing in the manipulation of light at the nanoscale. He holds a PhD in Physics from Stanford University and a B.S. in theoretical physics from Ecole Polytechnique, France.

David has always had a lifelong fascination for physics and was named French Innovator of the year 2013 by the MIT technology Review and featured on their list of 35 Innovators under 35 that same year. He holds over 100 granted patents and co-authored the textbook “Single Photon Devices and Applications”. He was awarded the French National Order of Merit in 2014 for developing the “Diffractive Lightfield Backlighting” concept.