



Center for Minimally Invasive Therapeutics

Seminar series



Dr. Benjamin Richter

University of California, Los Angeles (UCLA), U.S.A.

Thursday, Jan. 31, 2019 at 10:00am-11:00am

CNSI Auditorium

Hosted by Prof. Ali Khademhosseini

“3D printing by two-photon polymerization sets new standards in micro- and nanofabrication”

Abstract:

Nanoscribe is a manufacturer of 3D laser lithography systems using two photon polymerization. The systems are the world’s fastest commercially available 3D printer with sub-micrometer resolution and are used to fabricate microstructures for numerous application areas such as photonics, cell biology, micromechanics, microoptics and microfluidics. With casting and molding techniques, the structures made of photo resist can be transferred into other materials like metals, silicon, ceramics or silicone. In this talk an overview of the technique, several application examples of customers and the newest in-house developments will be given.

Biography:

Dr. Benjamin Richter studied physics at the Karlsruhe Institute of Technology (KIT). He performed his Ph.D. in the group of Prof. Martin Bastmeyer and Prof. Martin Wegener also at the KIT. The topic was “Selective Biofunctionalization of three-dimensional Microstructures”. After finishing his Ph.D., he continued for two years as a postdoctoral researcher and joined Nanoscribe as a Sales Manager in 2017. He is the (co-)author of >15 publications and several conference abstracts.

For any inquiries, contact Prof. Ali Khademhosseini at khademh@ucla.edu