

# **Christopher A. Lemmon, Ph.D.**

**Inez A Caudill Professor; Associate Chair, Department of Biomedical Engineering | B.S., Lehigh University | M.S., University of Wisconsin | Ph.D., Johns Hopkins University at VCU Richmond, VA, US**

Dr. Lemmon's research lies in cell-generated traction forces and extracellular matrix biology

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## **Biography**

Christopher Lemmon, Ph.D. is the Inez Caudill, Jr. Distinguished Associate Professor in Biomedical Engineering. He is also the Associate Department Chair for Biomedical Engineering at Virginia Commonwealth University. He began his academic life as a Mechanical Engineer, receiving his B.S. in mechanical engineering from Lehigh University in Bethlehem, PA. He then went on to work for Delphi Harrison Thermal Systems, followed by two years at the University of Wisconsin, where he received his M.S. in Mechanical Engineering. At this point, he took a major career turn, deciding to move into Biomedical Engineering. Following a one-year stint as Lab Technician in the Cardiovascular Dynamics Lab at Johns Hopkins, he began his PhD at Johns Hopkins, where he worked under the co-direction of Lewis Romer MD and Christopher Chen, MD/PhD. His work focused on measuring traction forces generated by single cells, and their ability to use these forces to assemble new tissue. He went on to do post-doctoral research at Duke University Medical Center, focusing on molecular biology tools for studying extracellular matrix proteins, under the direction of Harold Erickson, PhD. He joined VCU as an assistant professor in 2012 and was promoted to associate professor in 2017. His lab focuses on the roles of mechanics and cell signaling in the extracellular matrix, with a particular focus on breast cancer and fibrosis. His work is supported by both NIH and NSF.

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## **Industry Expertise**

Research, Education/Learning

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## **Areas of Expertise**

Cell-generated traction forces, Extracellular matrix biology, Cellular mechanotransduction, Mechanobiology of fibrosis, Matrix mechanics and signaling in the tumor microenvironment;, Cellular traction forces, Cell mechanosensing

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## **Education**

**Johns Hopkins Universities**

Ph.D. Biomedical Engineering

**University of Wisconsin**

M.S. Mechanical Engineering

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