

# **Michael Kosorok**

**W. R. Kenan Distinguished Professor and Chair of Biostatistics; Professor of Statistics and Operations at UNC-Chapel Hill**

Chapel Hill, NC, US

Dr. Kosorok's research focuses on big data and machine learning, as it applies to improving healthcare.

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Michael R. Kosorok, PhD, is W. R. Kenan, Jr. Distinguished Professor of Biostatistics and Professor of Statistics and Operations Research at UNC-Chapel Hill.

His research expertise is in biostatistics, data science, machine learning and precision medicine, and he has written a major text on the theoretical foundations of these and related areas in biostatistics (Kosorok, 2008, Springer) as well as co-edited (with Erica E. M. Moodie, 2016, ASA-SIAM) a research monograph on dynamic treatment regimes and precision medicine.

He also has expertise in the application of biostatistics and data science to human health research, including cancer and cystic fibrosis. In particular, he is the contact principal investigator on an NCI program project grant (P01 CA142538), which focuses on statistical methods for novel cancer clinical trials in precision medicine, including biomarker discovery and dynamic treatment regimes. He has pioneered machine learning and data mining tools for these and related areas.

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**University of Wisconsin-Madison**

MM Music Composition

**University of Washington**

PhD Biostatistics

**University of Washington**

MS Biostatistics

**Brigham Young University**

BM Music Composition

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**Honorary Fellow**

2016, American Association for the Advancement of Science

**Medallion Lecturer**

2015, Institute of Mathematical Statistics

**Honorary Fellow**

2007, Institute of Mathematical Statistics

**Honorary Fellow**

2006, American Statistical Association

**Honored Alumni, College of Physical and Mathematical Sciences**  
2004, Brigham Young University

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