

2023 Thaddeus Samulski Lectureship

Data Farm to Table – Enabling Single and Multi-Institutional Integration of AI into Clinical Decision Frameworks

Wednesday, November 1, 2023
Trent Semans Center – Great Hall

Agenda

4:00 p.m.

Reception – hors d'oeuvres and refreshments provided

4:20 p.m.

Welcome

Deshan Yang, PhD

4:25 p.m.

Opening Remarks

Christopher Willett, MD

4:30 p.m.

Remarks from the Dean

Mary Klotman, MD

4:40 p.m.

Remembering Dr. Samulski

Ricka Samulski

Mark Dewhirst, DVM, PhD

4:55 p.m.

Computational Oncology: Tumor Phenotyping, Multiscale Modeling and *In Silico* Experiments

Kyle Lafata, PhD

5:25 p.m.

Data Farm to Table – Enabling Single and Multi-Institutional Integration of AI into Clinical Decision Frameworks

Charles Mayo, PhD

6:10 p.m.

Q&A Session

6:25 p.m.

Closing Remarks



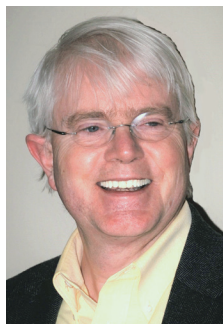
In Memoriam – Thaddeus V. Samulski, PhD

Dr. Thaddeus Samulski was one of the international leaders in hyperthermia. He was a tenured professor; served as chief physicist in the Department of Radiation Oncology at Duke University between 1992 and 2004; and established the first medical physics postdoc training program at Duke.



Departmental Speaker – Kyle Lafata, PhD

Dr. Kyle Lafata is the Thaddeus V. Samulski Assistant Professor of Radiation Oncology at Duke University. Additionally, he holds faculty appointments in Radiology (Joint), Medical Physics and Electrical & Computer Engineering. Dr. Lafata earned his PhD from Duke in 2018. He has broad expertise in imaging science, biophysics and applied mathematics. At Duke, his lab focuses on the theory, development and application of quantitative imaging, multiscale mathematical modeling and computational medicine.



Featured Speaker – Charles Mayo, PhD

Dr. Charles Mayo received his PhD from the University of Massachusetts at Amherst and currently serves as Professor and Director of Informatics and Analytics in the Department of Radiation Oncology at the University of Michigan – Ann Arbor. His primary research centers on developing novel methods and visualizations combining statistical and machine learning methods to construct outcome models from big data; and constructing standardized large scale databases from routine practice data for use in integrating artificial intelligence–driven modeling into clinical care.