

Clarkson University

Mathematics REU Speaker Series

Summer 2022

Friday May 27, 2022 @ 11 am in SC 362

Attend the talk via zoom:
<https://clarkson.zoom.us/j/98680644309>

Statistics in Pharmaceutical Development and Manufacturing

Statistical thinking and methods play a significant role in the research and development and manufacturing functions of the pharmaceutical industry. In this talk, I will briefly provide the phases of pharmaceutical development and manufacturing and statistical tools involved in each, the impact of statistical software, and the role of statisticians in pharmaceutical development and manufacturing



Veroni Jayawardana, Ph. D.

Dr. Veroni Jayawardana is a Senior Scientist at Merck & Company, located at West Point, Pennsylvania. She received her bachelor's degree in Mathematics from University of Peradeniya, Sri Lanka, and M.S. in Mathematics from Clarkson University in 2012. She obtained her Ph.D. from Clarkson University in 2016 working under the guidance of Prof. Sumona Mondal. Her research focused on cross-disciplinary methodologies involving general linear models, multivariate statistical analyses, data mining, and missing data interpretations. Dr. Jayawardana serves as a consultant and advocate of Chemical Manufacturing Controls statistics to technical specialists and managers in company's pharmaceutical, biologic, and vaccine manufacturing. She is a key member of multiple teams developing, validating, and transferring bioassays and supporting stability analyses. In addition, she provides technical direction in tasks that include the design of experiments, dissection of data, statistical process control, design of sampling plans, and problem solving.

Senior Scientist
Merck & Co.
West Point, PA



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Please contact: Guangming Yao (gyao@clarkson.edu) or James Greene (jgreene@clarkson.edu) for more information.

Pizza will be served.