

Applied Mathematics in Industry Seminar

Data Science for Sustainable

Agriculture at Bayer Crop

Science

Nov 09, 2022

4:00 -- 5:00 pm

Zoom Meeting ID:
896 8097 5303

Passcode: Amis1109

Dr. Sami Cheong

Data Science Lead at Bayer's Crop Science Division

In this talk, we'll take a tour of the data science community at Bayer Crop Science, starting with an introduction to who we are, what we stand for, and an overview of our Women in Data Science organization. In the second part, we will visit a data science use case that utilizes Bayesian spatial hierarchical modeling to help our research and development pipeline better make advancement decisions for seed treatment products. Specifically, we will introduce examples of our experimental trials, data challenges, insights from visualization, as well as innovation in modeling techniques that helped us gain important insights about working with large scale experimental data.

Sami Cheong is a data science lead in Bayer's Crop Science division. In her current role she leads multiple analytics workstreams focused on building end-to-end data science tools for Bayer Crop Science's global commercial organization, providing value to business operations across the world by facilitating decisions with data-driven insights and recommendations.

Since joining Bayer in 2016, Sami has been a leader and mentor in the company's Data Science community and co-founded the company's internal Women in Data Science (WiDS) organization. The group's mission is to attract, grow, inspire, and champion women in the data science field at Bayer.

Originally from Macau, China, Sami received her Ph.D in mathematics from the University of Wisconsin in Milwaukee in 2016, and in 2019 completed her MBA at Washington University's Olin School of Business, where she is currently also an adjunct instructor of statistics with Wash U's University College division. In her free time, Sami enjoys playing musical instruments, being in the outdoors, and experimenting with new cooking recipes.



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