

Applied Mathematics in Industry Seminar

An overview of Advanced Analytics at American Airlines

Dr. Billy Wang
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Manager at
American Airlines**

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2:00 -- 3:00 pm

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Abstract: From schedule design, to crew pairing, to daily operation, the Airline industry is arguably one of the sectors that have the most complex business processes, and by definition, has many exciting opportunities for the use of Operations Research and Advanced Analytics techniques. In this talk, Dr.Wang will provide a quick introduction about American Airlines. He will then go over the tools and platforms currently available at AA in the Data Science space, and highlight a few mission-critical models and applications implemented at the airline that leverage advanced modelling techniques.

Dr. Billy Wang is a respected expert in Airline Operations and an experienced leader in Advanced Analytics. He leads a team of Operations Research Professionals and Data Scientists at American Airlines supporting AA's Operations Control Center (the nerve-center of the airline) as well as American's Hubs and Gateways. His team employs advanced techniques such as machine learning, optimization and simulation to solve challenging business problems and deliver business values to AA. They develop innovative, ground-breaking and industry-leading models and solutions for the operations team that transform the business processes and drive operational excellency. Dr.Wang holds a Ph.D. in Operations Research from Virginia Tech. He and his wife Chloe live at Southlake, TX with their son Jack and daughter Kristin. At his spare time, Dr.Wang enjoys travel, jogging and cooking.



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