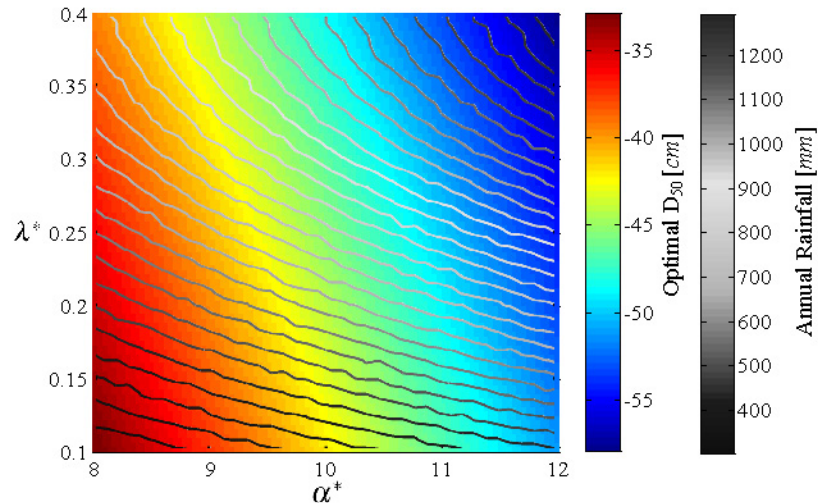# Adaptive ANN Solutions of ODEs and PDEs

On-going Research and Collaborations:

▪ **"A Constrained-Optimization Approach to Preserving Prior Knowledge in Neural-Network Modeling and Control of Dynamical Systems,"** 2008 - 2014, NSF. Amount: $322,112. PI: S. Ferrari. Collaborators: Albertson.

Future Research Directions:

• Adaptive ODE and PDE solutions for environmental modeling, prediction, and optimization.
• Morphing aircraft design and CFD, biological fluid dynamics.

Future Funding:

• NSF, NASA, DoE, DoD.