



**Ronald E. Hatcher**  
**Science on Saturday Lecture Series**  
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***Self-Driving Cars and AI: Transforming our  
Cities and our Lives***

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**ABSTRACT:**

Self-driving cars have become one of the hottest areas in tech development today and are poised to transform our transportation systems. They are also one of the most complex technology developments ever undertaken and are simply not possible without artificial intelligence. In this talk, I will give a brief history of autonomous vehicle progress, and describe how machine learning and artificial intelligence solve various parts of the problem. I will finish with observations on how self driving cars will disrupt and transform the transportation industry, our cities, and our lives.

**BIOGRAPHY:**

Dr. Jeff Schneider is the engineering lead for machine learning at Uber's Advanced Technologies Group. He is currently on leave from Carnegie Mellon University where he is a research professor in the school of computer science. He has 20 years experience developing, publishing, and applying machine-learning algorithms in government, science, and industry. He has over 100 publications and regularly gives talks and tutorials on the subject.

Previously, Jeff was the co-founder and CEO of Schenley Park Research, a company dedicated to bringing machine learning to industry. Later, he developed a machine learning based CNS drug discovery system and commercialized it during two years as Psychogenics' Chief Informatics Officer. Through his research, commercial, and consulting efforts, he has worked with dozens of companies and government agencies around the world