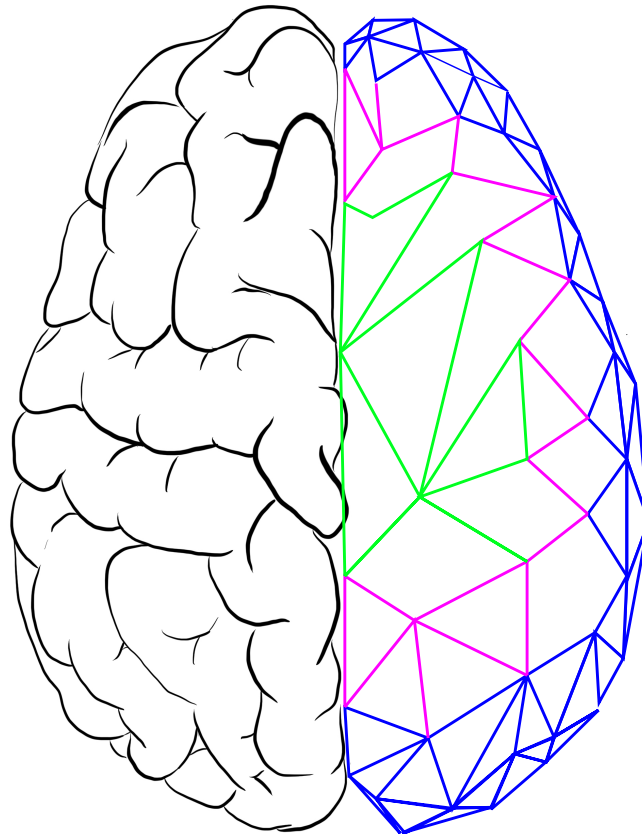# Mathematical Foundations of Machine Learning
MAT 280

Content: The course will cover the mathematical background of supervised machine learning. It is intended for mathematicians interested in a theoretical understanding of the methods underlying current developments in artificial intelligence. Topics include: statistical learning theory, representation efficiency and (unreasonable?) effectiveness of deep nets, alternatives to neural networks.

Prerequisites: Basic knowledge in linear algebra, analysis and probability theory is required as well as some elementary Hilbert space theory.

Lecturer: Michael M. Wolf (m.wolf@tum.de, office hours: by appointment)

Time: Tuesday, Thursday 10:00-11:20am

Place: MSB 3106

Literature: Course notes and literature will be provided