

MASTER OF SCIENCE IN WEALTH MANAGEMENT

MAÎTRISE UNIVERSITAIRE EN GESTION DE PATRIMOINE

INTERDISCIPLINARY METHODS AND MODELS IN NEUROECONOMICS (S403062)

Prof. Kirsten PREUSCHOFF

3 ECTS

Semester: Autumn

Teaching language: English

Neuroeconomics is an emerging field that takes an interdisciplinary approach to studying decision making by integrating research questions and methods from many different disciplines such as neuroscience, economics, finance, psychology, affective sciences, and computational neuroscience.

This course will focus on the different methods employed in Neuroeconomics. Each lecture will introduce a new method, discuss examples from recent research as well as take a critical look at what the method can and cannot contribute to Neuroeconomics and more specialised fields such as Psychology and Economics. Topics include functional magnetic resonance imaging, EEG, measuring physiological signals, economic models of choice, financial market models, computational models of behaviour (e.g., reinforcement learning & Bayesian learning) and neural networks, pharmacology, genetics, and others.

Taking “Introduction to Neuroeconomics and Neurofinance”, also offered in the spring will be helpful but is not absolutely necessary.