

# Using The Visual World Paradigm (VWP) To Study Language Processing

Michael K. Tanenhaus

Beverly Petterson Bishop and Charles W. Bishop

Professor of Brain and Cognitive Sciences, Professor of Linguistics

University of Rochester, Rochester, NY.

Chair Professor of Nanjing Normal University, Nanjing, China

This course will provide an introduction to the Visual World Paradigm and how it can be used as a real-time measure in a variety of different domains within psycholinguistics, including speech perception, spoken word recognition in continuous speech, parsing, prosody, experimental semantics and pragmatics, utterance planning, including lexical encoding and grammatical encoding, and interactive conversation. We begin with some basic information about eye-movements, including eye movements in vision in natural tasks. We discuss the logic of the VWP, including issues about linking hypotheses, some basic information about eye-tracking systems, and issues of data analysis. We then focus on some representative applications of the VWP in four different domains, discussing the logic of the methods in each domain and, for each, the design choices made in an example article. The choice of domains and readings will take into account the interest of the students enrolled in the course.

The basic reading, available in final form in January, 2017 is:

Salverda, A.P & Tanenhaus, M.K. (to appear). The Visual World Paradigm. In A. de Groot and P. Hagort, (Eds.). *Handbook of Psycholinguistic Methods: A Practical Guide*. John Wiley & Sons: Oxford.

Other readings will be assigned later.