

Sheila Chase, PhD

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Faculty Research

General Area of Research

Comparative cognition, information processing, psychophysics

Description of Current Research

Extension of a model of information processing developed to account for the performance of pigeons on identification and categorization of visual stimuli (lights, sounds, and patterns) to performance of human participants. Computer simulation of memory and decision processes as revealed by pigeon and human identification and categorization.

Requirements and Benefits for Student Researcher

Essential and Desirable Background Knowledge and Skills

Essential: Interest in comparative cognition, competence in use of the computer for programming and conducting experiments.

Desirable: Use of a computer programs such as Excel or SPSS for statistical analyses, creation of spread sheets, graphs.

Expected Responsibilities

Help in program development, carrying out of experiments, participate in extension of the model of information processing.

Expected Benefits

Opportunity to deepen understanding of issues in comparative cognition and obtain research experience

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