Opening: Ph.D. position

Perception and Brain Plasticity: a Synergetic Approach

This structured Ph.D. position offers a research opportunity in the field of brain plasticity and perception. The project focuses on the relationship between short term brain plasticity and perception as observed in various priming and adaptation experiments. The Ph.D. candidate will conduct several experimental studies and modeling studies to approach brain plasticity and perception from the perspective of synergetics, which is a theory of self-organization founded by Professor Haken. The Ph.D. project is part of the CESPA Graduate Student Training Program.

4 Year Research Schedule

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40 % lab work
60 % modeling and data analysis

Supervisor
Dr. Till Frank
Email: till.frank@uconn.edu

Requirements
- Strong quantitative background
- Programming skills
- Familiar with or willingness to learn
  - Classical mechanics
  - Linear ordinary differential equations

Reference
The Center for the Ecological Study of Perception & Action (CESPA) is looking for highly motivated students with research interests in:

- Self-Organizing Systems
- Non-Linear Dynamics
- Perception, Action, and Cognition
- Embodied Cognition
- Interpersonal Coordination
- Movement Science

CESPA is an interdisciplinary center devoted to developing a theoretical account of behavior, grounded in natural law. We offer opportunities for collaboration with scholars in a variety of fields including: physics, chemistry, robotics, biomedical engineering, physical therapy, philosophy, cognitive science, and psychology.

Graduate students are admitted into a Ph.D. program of the Department of Psychology (in either Ecological or Developmental Psychology). Training positions typically provide 5 years of financial support. Structured Ph.D. projects are available as well. Students with strong backgrounds in mathematics, physics, computer science, philosophy, and movement science are particularly encouraged to apply, but a keen interest in research is the most important criterion.

Interested students should visit our website: [http://ione.psy.uconn.edu](http://ione.psy.uconn.edu) for instructions on how to obtain more information and application procedures.