



BROWN UNIVERSITY

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TWO POST-DOCS IN PERCEPTION, ACTION, & NAVIGATION BROWN UNIVERSITY

Two Postdoctoral Research Associate positions are available in the Virtual Environment Navigation Lab (VENLab) a state-of-the art ambulatory virtual reality facility (www.cog.brown.edu/research/ven_lab/), beginning Summer, 2009.

(1) Post-doc in Locomotor Control: This NIH-funded project investigates multi-sensory control strategies for locomotion, including steering, obstacle avoidance, and pedestrian interactions. Locomotor behavior is modeled using a dynamical systems approach. The post-doc will investigate multi-sensory contributions to steering control; test the effects of visual field loss; and model the dynamics of crowd behavior. Candidates should have a background in human perceptual-motor research or kinesiology, with expertise in movement analysis and programming; knowledge of signal processing and dynamical modeling are desirable.

(2) Post-doc in Spatial Navigation: This NSF-funded project investigates human navigation strategies and spatial knowledge in the VENLab. The post-doc will study the geometry of spatial knowledge and how it depends on the structure of the environment during learning, by creating “impossible” virtual environments. Candidates should have a background in human perception or spatial cognition, with expertise in graphics programming and strong technical skills.

Both positions are available in Summer, 2009, and are renewable for up to 3 years. The Ph.D. must be completed before starting. Send CV, one-page statement of research interests, and 3 letters of reference to Dr. William H. Warren, Dept. of Cognitive & Linguistic Sciences, Brown University, Providence, RI 02912 USA, or to Bill_Warren@brown.edu. Applications will be reviewed until the positions are filled. Brown University is an Equal Opportunity/Affirmative Action Employer.