

Center for Cardiovascular Bioinformatics & Modeling

“Mechanics of Shape”

Laurent Younes

Associate Professor

Applied Mathematics and Statistics

Johns Hopkins University



Abstract:

This talk describes how a series of concepts, which belong to physics and mechanics, can be transposed to shape analysis in the static and in the dynamic cases. It will define, in particular, the energy and the momentum of a shape or an image subject to a dynamic deformation, and interpret geodesic equations in shape space as analogue of the usual Galilean motion of an object without external forces. This will be used to develop new strategies for analyzing deformations in computational anatomy.

Other Seminars in the series:

Tanveer Syeda-Mahmood	4/20
Akhilesh Pandey	4/27
David Cutler	5/4
Raimond Winslow	5/11

Date: 4/13/04

Time: 4:00 – 5:00 PM

Location: 110 Clark Hall

**Simulcast to Talbot Library,
709 Traylor Bldg.**

Contact: Anne Albinak

Phone: 410.516.5310

Email: aalbinak@bme.jhu.edu

<http://www.ccbm.jhu.edu>

CCBM