

1106-14-1531 **Rekha R Thomas*** (rrthomas@uw.edu), Department of Mathematics, Box 354350, University of Washington, Seattle, WA 98195. *Algebra and Geometry in Computer Vision.*

In this talk I will describe recent work in the area of multiview geometry, a sub-discipline of computer vision, that makes use of methods from algebraic geometry, optimization and computational algebra. All of these problems are concerned with the reconstruction of three-dimensional scenes from (possibly noisy) images of the scene in known, unknown or partially known cameras. This body of work is joint with Sameer Agarwal, Chris Aholt, Hon-Leung Lee and Bernd Sturmfels. (Received September 13, 2014)