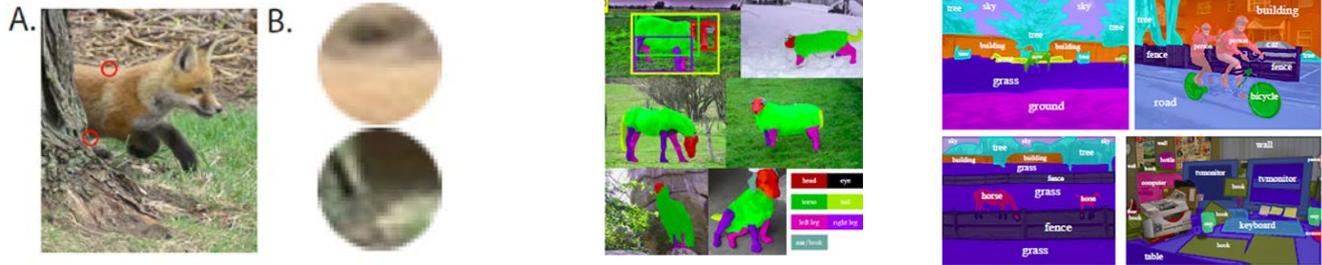


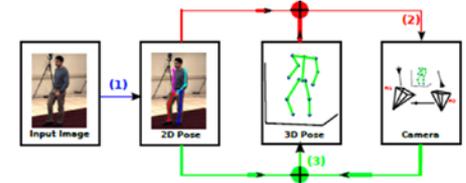
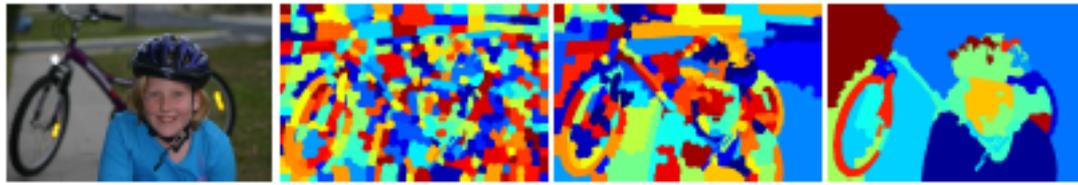
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- Center for Cognition, Vision, and Learning.
UCLA
- Prof. A.L. Yuille
- Current Team Members – none.

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- Research Areas of Expertise:
- (i) Computer vision models of image parsing. Segmentation, labeling, object and part detection, action recognition,
- (ii) Experience with neuroscience – electrode recording, fMRI,
- (iii) Machine learning expertise.
- (iv) *Theoretical framework for vision --- based on compositional models. Consistent with neuroscience – but how to test?*



- Why Compositional Models?
- (I) Addresses scalability issue – complexity of visual tasks, complexity and local ambiguity of images.
- (II) Key ideas – hierarchical structured representations. Objects built from parts, built from subparts.
- (III) Combine local ambiguous hypotheses to form larger less ambiguous hypotheses (more context)
- (IV) Local architectures – neutrally plausible?

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- We have neuroscientific collaborators on electrophysiology (T.S. Lee CMU) and fMRI (D.K. Kersten UMN).
- *But no knowledge of “emerging technologies in high-resolution and high-throughput brain mapping-such as serial electron microscopy and volumetric calcium imaging.”*

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