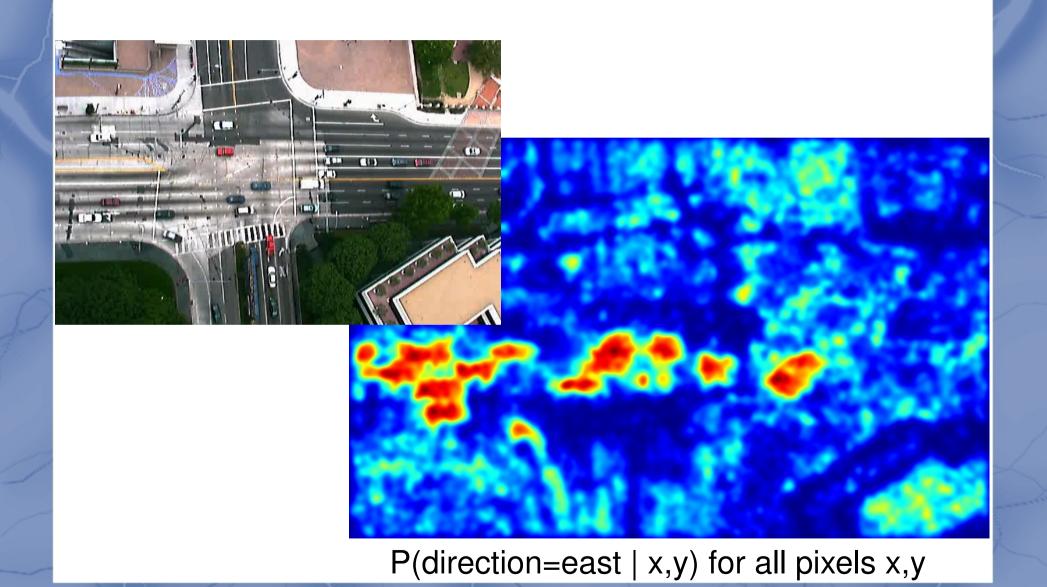
REU: Week 7

Scene Motion Patterns from Optical Flow
Lance Hartung

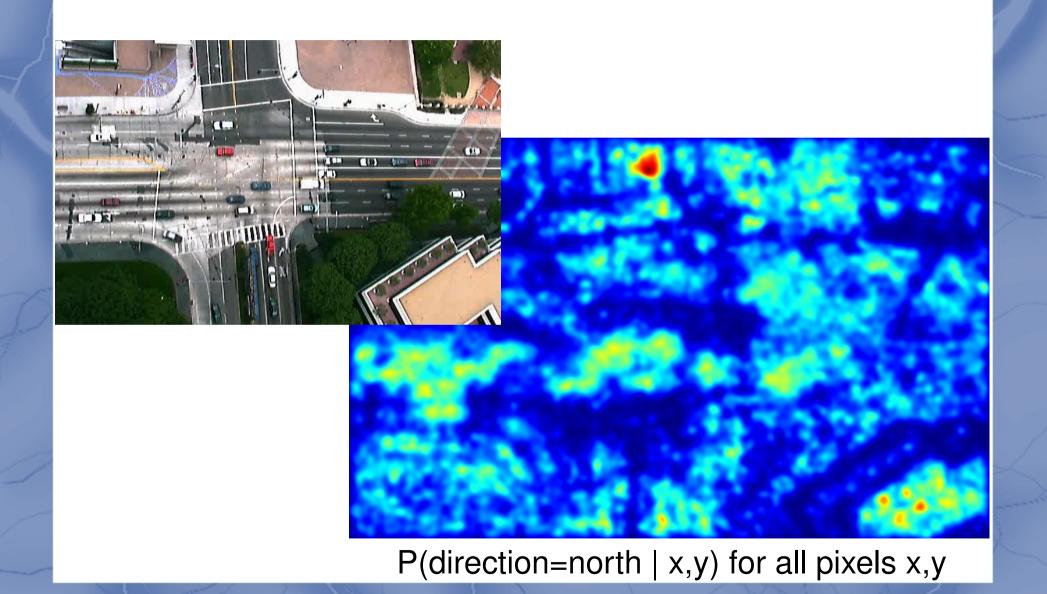
#### **Problem**

- Trained over 11,000 frames
- PDF does not capture all motion patterns
- Difficult to recognize multiple distinct patterns (eg. within an intersection)

### **Best case**



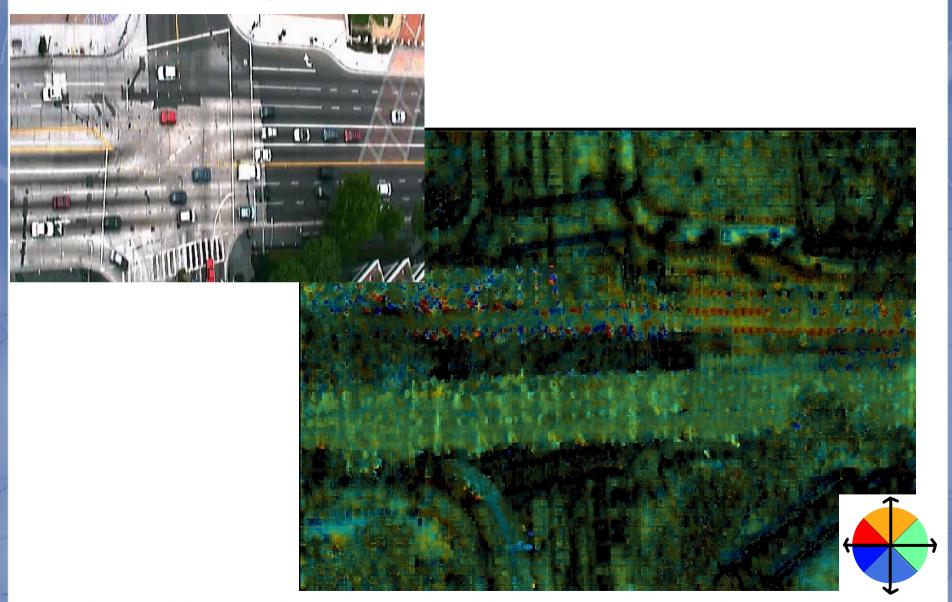
## Worst case



#### Our solution

- Try to capture temporal change in motion patterns
- Separate frames into time clips
- Frames 1-90 are marked t=1, ...
- New model based on (x,y,u,v,t)

## Example 1: Horizontal traffic



# Example 2: Left turn

