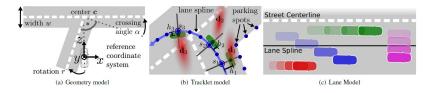
## Understanding High-Level Semantics by Modeling Traffic Patterns H. Zhang, A. Geiger and R. Urtasun (ICCV 2013)



- Understanding the semantics of outdoor scenes in the context of autonomous driving
- Generative model of 3D urban scenes enables to reason about high level semantics in form of traffic patterns
- Learn the traffic patterns from real scenarios
- Novel object likelihood which models lanes much more accurately and improves the estimation of parameters such as the street orientations
- Small number of patterns is sufficient to model the vast majority of traffic scenes
- High-level reasoning significantly improves the overall scene estimation as well as the vehicle-to-lane association