ambiguities require a) general knowledge (telescopes are instruments of seeing etc) or b) statistical preferences that may be partly structurally mediated but are largely lexical (see+telescope is more common than man+telescope)

2)

Problems: ran up = vb+prt or vb+prep; byPP is adjectival/adverbial, definite description with superlative picks out a unique path on the hill via a bridging inference; had cues a discourse explanation rather than narrative sequence; her corefers with Kim (not Sandy) by no reference within clause rule for non-refl pronouns and because Sandy is discourse topic; egged on is an idiomatic phrasal verb discontinuous because of particle movement.

Stages: morph, syn, sem, prag/discourse and descrip of what's involved and potentially resolved at each stage

Eval: morph/PoS tagging shld identify PoS reliably but might treat ran+up incorrectly as vb+prt as it's common (ran up the bill) and might get egg+on wrong as discontinuous; syn might get byPP attachment wrong cos (hill by the lake, location by location, plausible) given knowledge-based or statistical interp.; bridging inference needs deeper world knowledge (hill has inclined paths etc); egg+on is an idiomatic non-compositional predicate, but egg alone is an unlikely verbal predicate, so good semantic lexical info shld resolve this; had is a good simple lexical cue for explanation role / reversed temporal sequencing, so don't need to know about the causal relations between egg+on and run; her is resolved by syn and simple discourse structural rules, so no need for complex world knowledge.