

Solving LARA in Two Stages

Aspect Segmentation

Latent Rating Regression

★★★★★ r_d

“A friend and I stayed at the Hotel ...
 The hotel was very nice. The **location**
 was **amazing**. We could **walk** almost
 anywhere, but ... **far**. The **room** was
 very **nicely appointed** and the **bed**
 was sooo **comfortable**. Even though
 the **bathroom door** did not close all
 the way, it was still pretty private. ...
 But what I **liked best** about the hotel
 was the **staff**. They were soooo **nice**
 and **accommodating** ...”

$c_i(w, d)$	$\beta_{i,w}$	$r_i(d)$	$\alpha_i(d)$
Aspect segments	Term Weights	Aspect Rating	Aspect Weight
location:1	0.0		
amazing:1	3.9		
walk:1	0.1	3.8	0.2
far:1	-0.2		
room:1	0.1		
nicely:1	1.7	4.8	0.2
appointed:1	0.1		
comfortable:1	3.9		
nice:1	2.1		
accommod.:1	1.2	5.8	0.6
smile:1	1.7		
friendliness:1	1.2		
attentiveness:1	0.6		

Observed

Latent!