Simpson's Paradox

It's sometimes not about the bigger picture

Saket Choudhary September 25, 2016

Yule-Simpson Effect: Example from University Admission

	Female	Male	
Applicants	550	550	
Admitted	28.2%	41.8%	

Table 1: Acceptance percentage of female candidates is far less

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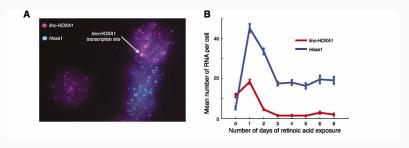
Table 1: Acceptance percentage of female candidates is far less

	Female		Male	
	Applicants	Admitted	Applicants	Admitted
Department A	150	50%	400	50%
Department B	400	20%	150	20%

Table 2: Departments do not display gender specific bias. Lower admission rates in female arises due females applying to department which are 'harder' to get into

Yule Simpson Effect: Single Cells

Maamar, Hédia, et al. Genes & development, 2013



Yule Simpson Effect: Single Cells

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