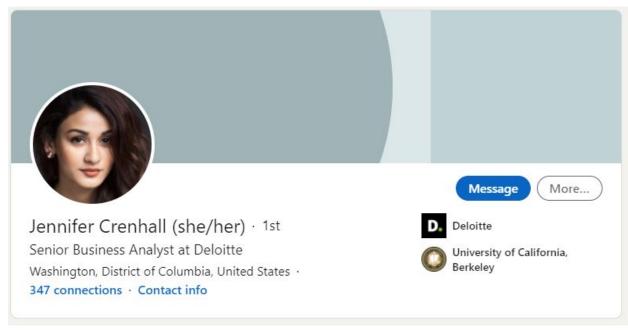
Attractiveness Bias

Lucas Barbosa, Aidan Jackson, Alan Zhang, Piotr Parkitny

April 14, 2021



Will you accept my connection request?

RESEARCH QUESTION



"The hope, of course, is that there's some inner-beauty to free."

Does attractiveness play a role in accepting a connection from a stranger in LinkedIn?

Hypothesis

Invites from attractive profile will be more accepted than otherwise same profile with an unattractive picture

What's new?

Other experiments tried to measure appearance-based discrimination in a work setting before

None with a **blind field experiment** like this

EXPERIMENTAL DESIGN

Within-subjects, 2x2 factorial design

With participants sourced from the primary connections of group members

	4 groups: block randomized	Intervention: Linkedin connection requests	Outcome: posttest acceptance rate
Treatment (n=708)	R	X Attractive woman	O
Control (n=706)	R	X Unattractive woman	O
Treatment (n=707)	R	X Attractive man	O
Control (n=707)	R	X Unattractive man	O

TREATMENT

Let's meet our experimental characters...



Attractive Jennifer

https://www.linkedin.com/in/jennifer-crenhal I-she-her-89a143207/



Unattractive Jennifer

https://www.linkedin.com/in/jennifer-crenhal I-she-her-4b6144207/



Attractive John

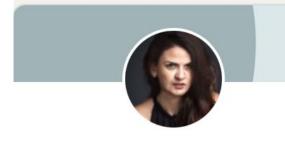


Unattractive John

MEASUREMENT

Connection Rate =

Number of Accepted Connections / Number of Total
Connections Sent



Jennifer Crenhall (she/her)

Senior Business Analyst at Deloitte

Who viewed your profile

314

Connections
Grow your network

316

Access exclusive tools & insights



Try Premium Free for 1 Month



My items

RANDOMIZATION

Gender	A-W	U-W	A-M	U-M	Grand Total
	141	147	150	148	586
F	277	271	265	266	1079
M	290	288	292	293	1163
Total	708	706	707	707	2828

ODE	<u>TYPE</u>	GENDER
I-W	Unattractive	Woman
-W	Attractive	Woman
I-M	Unattractive	Man
-M	Attractive	Man

Challenges - LinkedIn

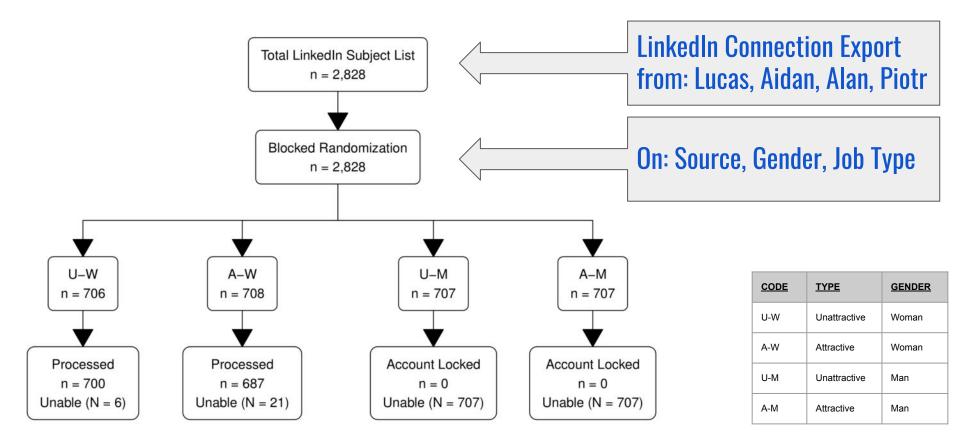
Challenges

- Automation tool implementation is not straight-forward
- The number of LinkedIn invitations sent is limited
- Two LinkedIn accounts were banned due to different login IP addresses

Solutions

- 1. Sent invitations manually
- 2. Scaled back the target number of subjects
- Started to use VPN to minimize changes in IP addresses
- Pivoted the experiment design from 2x2 to 1x1

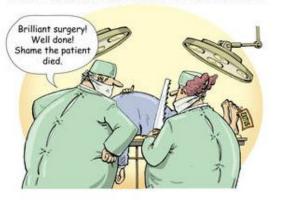
OBSERVATIONS TRACKING

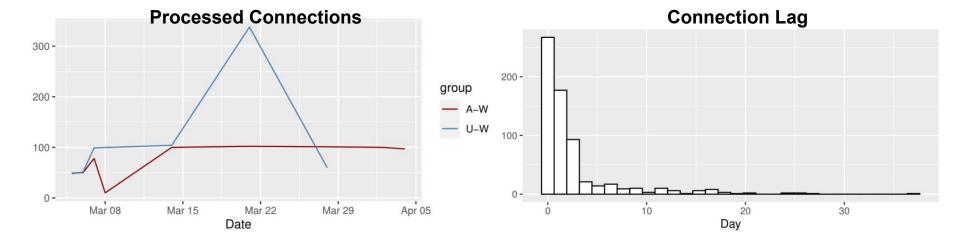


OUTCOME MEASURES

- Outcomes measures are accepted connections.
- Acceptance of the connection from attractive profile VS unattractive

Do outcomes matter?





RESILL 19	3
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	Overall	Acceptance	Rate:
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o U-W: 44.6 %

o A-W: 49.9 %

o p-value: 0.046

Acceptance Rate By Gender:

o Female: 39.8%

o Male: 50.7 %

Acceptance Rate by Source:

Lucas: 53.7%

Alan: 42.9%

Aidan: 43.0%

o Piotr: 40.6%

		Dependent variable:	
	Simple-Model	connected Regular-Model	Full-Model
	(1)	(2)	(3)
treatment	0.054**	0.053**	0.053**
	(0.027)	(0.027)	(0.027)
Sourcealan			0.007
			(0.048)
Sourcelucas			0.085^{*}
			(0.047)
Sourcepiotr			-0.020
			(0.051)
gender_corrm		0.109^{***}	0.093***
		(0.028)	(0.029)
Constant	0.446^{***}	0.372***	0.317^{***}
	(0.019)	(0.027)	(0.066)
Other Covariate	No	No	job-title-grp
Observations	1,387	1,387	1,387
\mathbb{R}^2	0.003	0.013	0.043
Adjusted R ²	0.002	0.012	0.027
Note:		*p<0.1; **p<0	.05; ***p<0.01

QUESTIONS AND CONCERNS

- 1. Did we take the right approach with a switch from 2x2 to 1x1?
 - a. Any other possible solution?
- 2. Did we take the right approach with removing uncontactable subjects?
 - a. Was it attrition or compliance?
 - b. Any other possible solution?



Thank You for your time.

Questions?

APPENDIX

Gender	Connection Rate	Total
m	0.507	947
f	0.398	440

-		_
9	4	7

Treatment	Connection Rate Male	Total
A-W	0.535	471
U-W	0.479	476

Treatment	Connection Rate Female	Total
A-W	0.421	216
U-W	0.375	224

^{*} p-val < 0.05