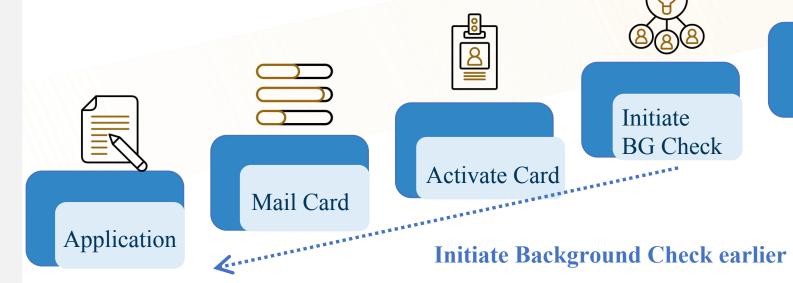


Objective Metrics Recommendations

Xiaoyu Liu



Test: If initiated background check earlier can increase the CVR?







Take Orientation (optional)

Q₁: Evaluate A/B Test Result

A: Initiated background check earlier increased the conversion rate.

Group	Applicant numbers (Sample Size)	Completed first batch numbers (success in recruiting funnel)	Conversion Rate
Control	10,798	1,877	17.4%
Treatment	5,357	1,683	31.4%
Conclusion	Conversion rate Significantly increased. (Z score 19.1; significant at 95%)		

Q₂: Is this change cost-effective?

A: Yes, it is cost-effective.

- > "Success" is based on completion of first batch.
- > We should focus on the overall cost that is average to each successful shopper.

Group	#Applicant that experienced background check	Background Check Cost per applicant	#Applicant that completed first batch	Cost per applicant that completed first batch
Control	7,651	30	1,877	\$122.3
Treatment	5,357	30	1,683	\$95.5
Conclusion	Dollar efficiency increased as the cost of spending on each "successful" shopper decreased.			

Q₃: Observation in application channel

Job site Search: Lowest conversion rate in the control group

Significantly improved if initiating background check ealier

Shopper referral bonus: Low conversion rate in the control group

Relatively Improved if intiating background check ealier

Social media: Low conversion rate in the control group

Relatively insignificantly improved if initiating background check ealier

Web search engine: Low conversion rate in the control group

Significantly improved if initiating background check ealier

➤ <u>Job site Search</u> and <u>Web search engine</u> improved most significantly, this is becasue applicants through these two channels are <u>more sensitive to the timing</u> (initiating background check ealier).

Group\CVR	Job site Search	Shopper referral bonus	Social media	Web search engine
Control	11%	13%	17%	18%
Treatment	31%	26%	20%	35%

Q₃: Recommendation

1

To perform an A/B Test to evaluate if **mandatory orientation** can improve the conversion rate.

Control Group	Successful Hiring	Not successful hiring
Orientation	45%	42%
No Orientation	55%	58%

2

To perform an A/B Test to evaluate if a decrease in the time needed for background checks can make shoppers start shopping quickly.

Group	Social Media CVR
Control	17%
Treatment	20%

3

- The social media channel has a lower conversion rate while insignificantly changing under different factors.
- ➤ It is better to evaluate the return on investment, which costs \$30 background check fee + channel acquisition cost, to see if this channel is effective enough.