The winner of the NFL draft is not necessarily cursed.

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Trades consisting of NFL draft picks

- In football, trading draft picks is a big deal!
- How does a team decide whether a trade of draft picks is good?
- Massey Thaler (2013)

 - Loser's curse top picks aren't as valuable as later picks • Draft capital is traded sub-optimally
- Today, we revisit this analysis

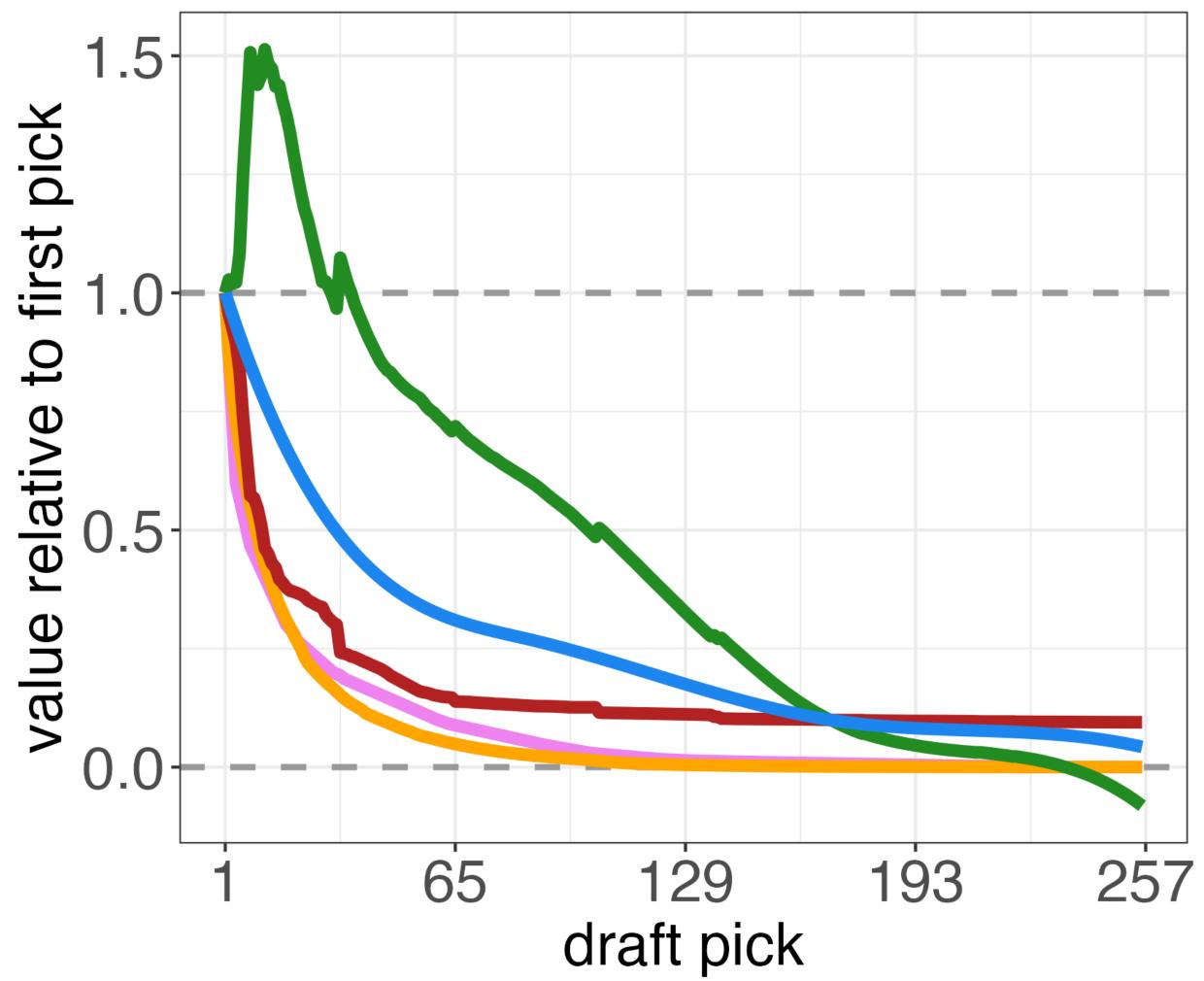
Traditional draft value curves

- How much value v(x) do players drafted at draft pick $x \in \{1, ..., 256\}$ provide?
 - the salary cap)
 - Expected performance value $v(x) = \mathbb{E}[Y|x]$

• Performance value Y = observed 2^{nd} contract value (relative to

Traditional draft value curves





expected performance

cost

expected performance minus cost

fitted trade market (Massey Thaler)

Jimmy Johnson

Implications of Massey Thaler (2013)

- Loser's curse top picks aren't as valuable as later picks
- NFL general managers trade sub-optimally
- Trading down from top picks is incredibly valuable

What piqued our interest

Massey Thaler (2013)

- completely replicates to recent data (2013-2023)
- Even though the work has been public and widely known for a long time, GM draft behavior is largely unchanged!

Why haven't GMs changed?

- Maybe the market is inefficient & GMs are just not wise? or....
- there is a sound economic reason why average future player value (at a draft position) doesn't determine trade value?

What's the problem?



- The goal is to win the Super Bowl
- to pay quite a lot for draft picks that are likely to be elite NFL performers.

• GMs don't want average players, they want elite players, and they may be willing

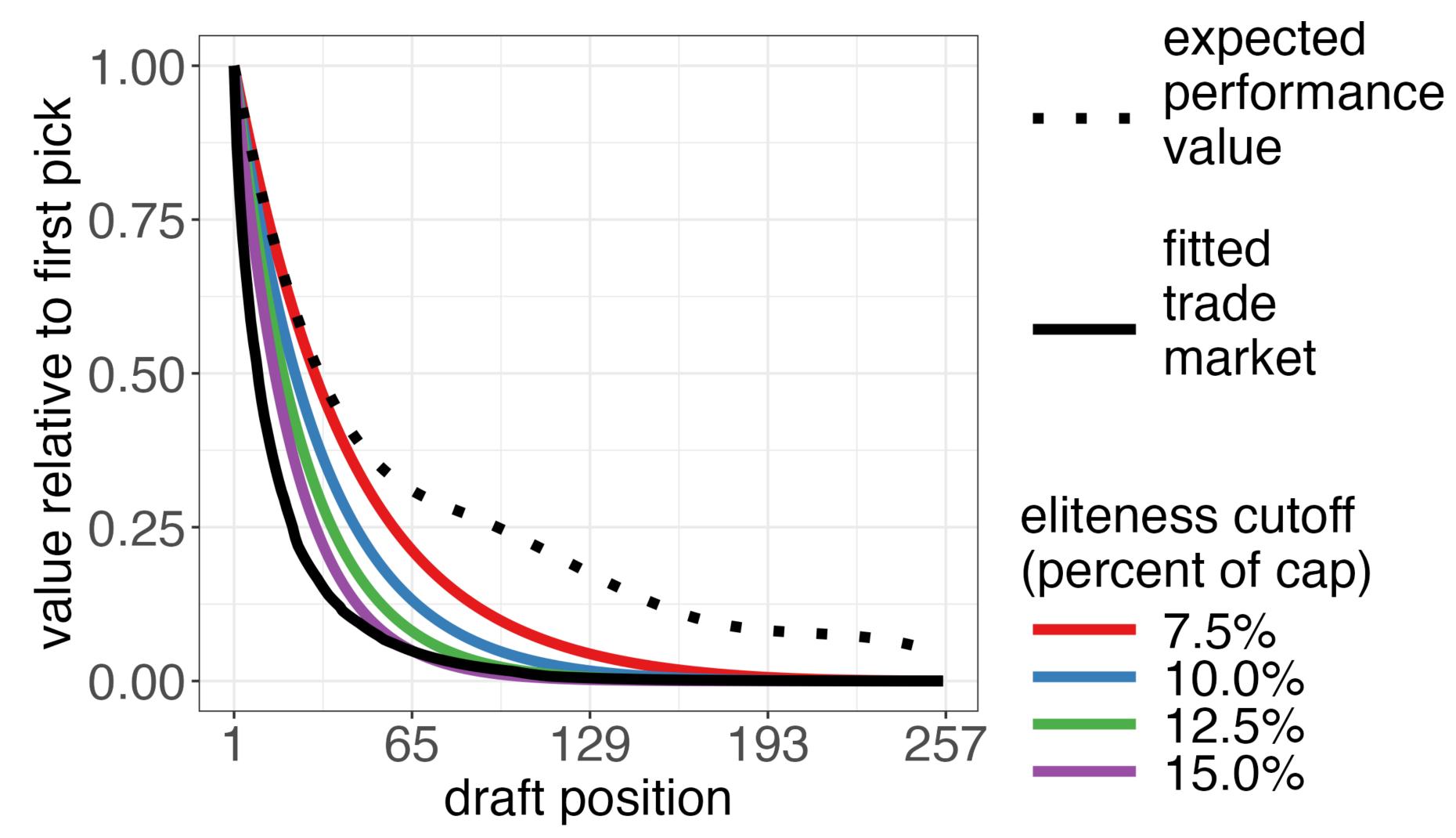
Valuing eliteness

- Consider right tail probability, $v(x) \propto \mathbb{P}(Y > r | x)$
 - Tail, not quantile
 - players (because $\mathbb{E}[1(Y > r | x)] = \mathbb{P}(Y > r | x)$)
 - regression

Assign a "value" to any set of players equal to the expected number of elite

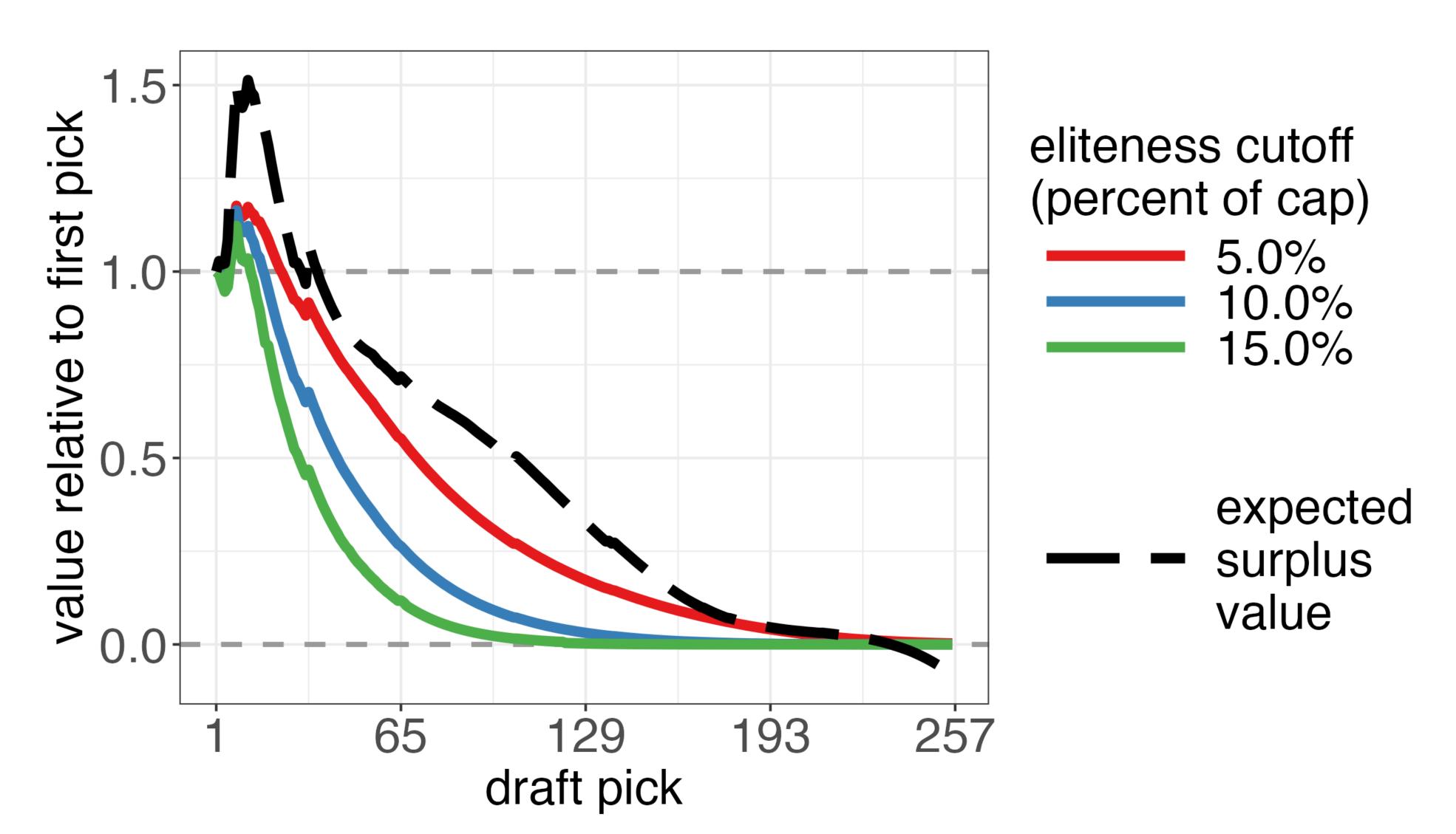
• Model the full conditional density $\mathbb{P}(Y | x)$ with a spline smoothed Beta

Right tail probability curves $v(x) \propto \mathbb{P}(Y > r \mid x)$

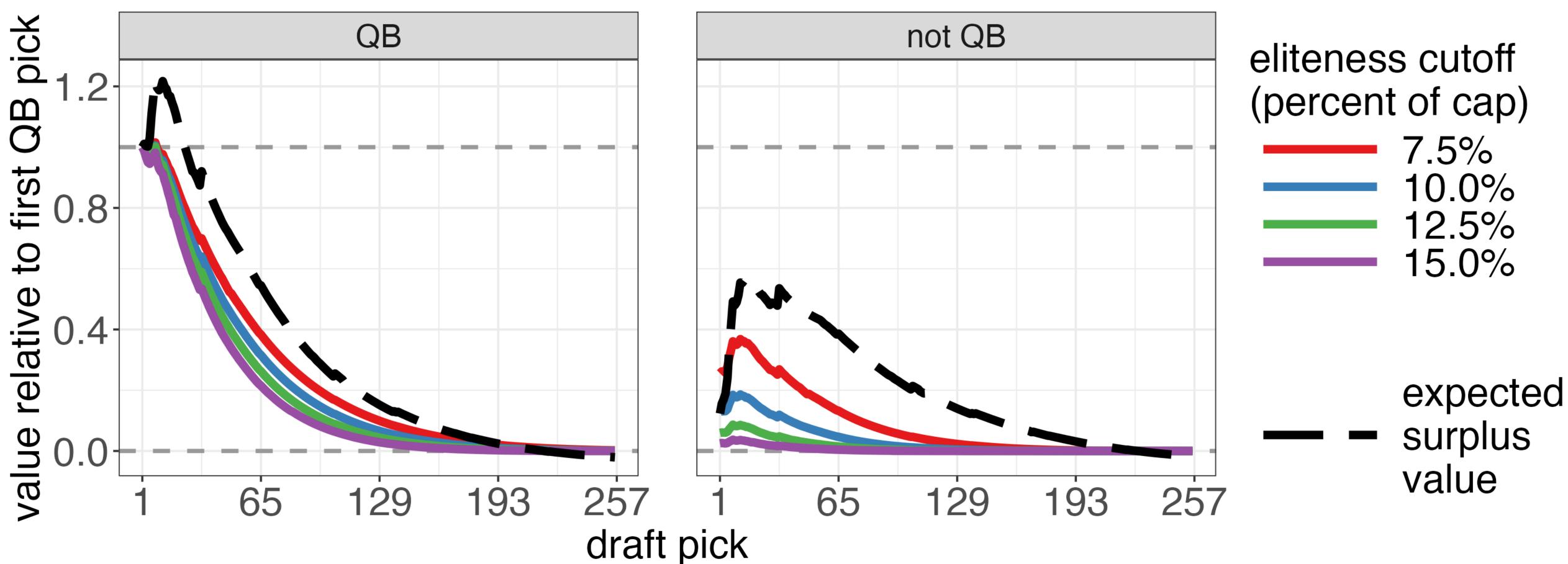


Surplus value

Right tail probability surplus value curves, $v(x) \propto \mathbb{P}(Y - \operatorname{cost}(x) > r | x)$



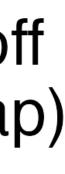
Adjust for position



Right tail probability surplus value curves by position, $v(x, QB) \propto \mathbb{P}(Y - cost(x) > r | x, QB)$

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The winner of the NFL draft is not necessarily cursed.

- at all.
- much and the high cost of a top draft pick is justified.
- expected value
 - Thank you!
 - Twitter: **@RyanBrill**

If you're looking for an elite quarterback there is no loser's curse

• If you are looking for elite talent, lower draft picks aren't worth

Trade draft picks based on some combination of eliteness and



