

$$H_{j} = \left(\overline{X}_{j}, \overline{A}_{j-1}, \overline{W}_{j} \right)$$

$$d_{j} \left(H_{j} \right) = \underline{I} \left(G = 1 \right) X_{j} \operatorname{Bean}(0.5)$$

$$+ \underline{I} \left(G = 2 \right) \left(1 - X_{j} \right) \operatorname{Bern}(1)$$

determin
$$a = 1$$
 $d(x)$
stochash2 born($\frac{1}{2}$)

$$d_{j}^{(1)}(H_{j}) = X_{j} \operatorname{Bem}(0.5)$$
, $\overline{d}_{j}^{(1)} \equiv (d_{1}^{(1)}, ..., d_{j}^{(1)})$
 $d_{j}^{(2)}(H_{j}) = (1-X_{j}^{(1)}) \operatorname{Bem}(1)$, $\overline{d}_{j}^{(0)} \equiv sin$.

$$\mathbb{E}(x_{j+1} \mid G=1) = \mathbb{E}(x_{j+1} (\overline{J_j}^{(1)}))$$

$$E(X_{j+1} \mid G=2) = E(X_{j+1} \mid \overline{A_j}; \sigma))$$

typical fropto

-. in dopanno paper,

$$\mathbb{E}\left(\chi_{j^{+1}}\left(\overline{\ell_{j}}\right)\right)^{1} = \lambda_{s} + \lambda_{l}\left(\frac{j}{s-1}\ell_{s}\right) + \lambda_{2}\left(\frac{j}{s-1}\ell_{s}\right)^{2}$$

may consider conditional

1 estimand of interest

e Hects

1) identification + estimation

gver X.

(2) modeling

$$\begin{split}
&\mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1) & \mathcal{G} \perp X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1},X_{2}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{2}(\lambda_{1},\lambda_{2}) \mid X_{1}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{2}(\lambda_{1},\lambda_{2}) \mid X_{1}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}X_{2},G,\lambda_{1}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}X_{2},G,\lambda_{1}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}X_{2},G,\lambda_{1}\\
&= \mathbb{E}(X_{3}(\lambda_{1},\lambda_{2}) \mid X_{1}=1,X_{2}=1,G=1) & \mathcal{G} \perp X_{3}(\lambda_{1},\lambda_{2}) &$$