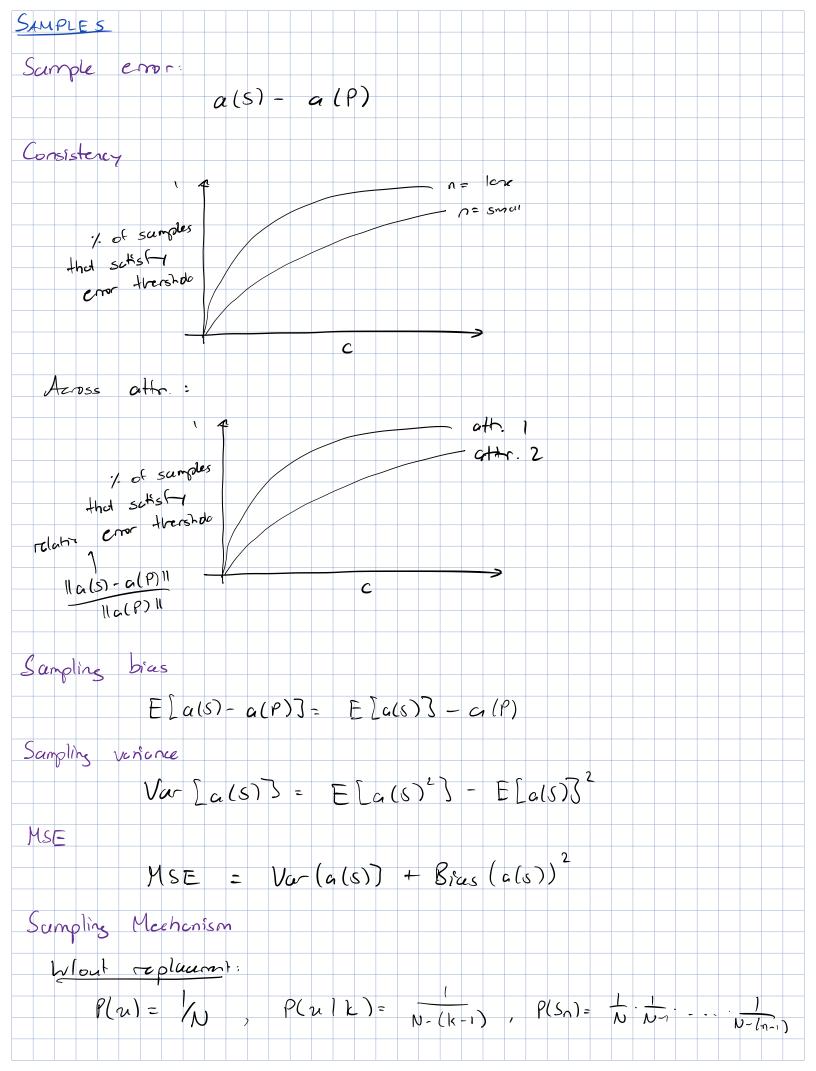


```
IRLS
  Objective: Find \hat{\theta} = (d, R) that minimizes \sum p(y_u - d - R(x_u - \bar{x}))
 Also:
     1. I_{n+1} = 0, \hat{\mathcal{B}}_{o} = \begin{bmatrix} \alpha_{o} \\ \beta_{o} \end{bmatrix}
     2. 200p
            c) bet residual & reights
                     \Gamma u = \Im u - \Im u = \Im u - [1 \times u] \hat{\theta};
                     Wu = P((n))
           b) Solu HLS publican
                       \sum_{u \in P} w_u r_u z_u = 0 \rightarrow \theta_{i+1}
            c) Chick corregera of ôi & ô; n Early exit
Newton Raphson
Goal: 0 & B° 34. 4(0, P) = 0
Also:
    1. I_{nit}: i \leftarrow 0, \hat{\theta_0}
                                                        2. Loop
           a) Updak itaak:
                             \hat{\theta}_{i+1} = \hat{\mathcal{O}}_i - \left[ \Psi'(\hat{\theta}_i; \rho) \mathcal{J}'(\psi/\hat{\theta}_i; \rho) \right]
           b) Check converse & early exit.
```



$$P(S) = \begin{cases} 1 \\ (n) \end{cases}$$

$$P(S) =$$

Fundin: a	$(p) = f\left(\sum_{n \in P} (y_n)\right) \rightarrow$	$\alpha(\rho) = f(\alpha_{\rightarrow \tau}(s))$
INFERENCE		
Emors		
· Study		
· Sample	- Operto	
6 Measurent	Tristment method	
Anatomy of Sis. 5	Test	
	from same pop.	
Discrepancy measur		
1 Observ discrpa		
	, M	
6 ρ- val:		[D(P,,i, P2,i) 2 dolo]
tron:	et Ho but Ho tre	
· Typ II: acce	et Hb but Hb tre Bot Hb but Hb folse	
Confidence Interes		
O Emile varina:	2 / 11 1	
Var	$\frac{\sqrt{2}}{\sqrt{N}} = \frac{\sqrt{N-n}}{\sqrt{N-1}}$	
@ Bootesty C.T.		
SE = S	$SD \supseteq \tilde{\alpha} (S) = \begin{cases} \frac{1}{2} (\alpha(S_{b}^{*}) - \bar{\alpha}) \\ B = 1 \end{cases}$	$\overline{a}^* = \frac{1}{2} \sum_{\alpha} \alpha(S^*)$
		i = 1
A: Noise noi		
	$a(s) \pm c \times sD[\bar{a}(s)]$	
B: Percentile	. 1/2 & (1-1/2) th pearties of	bootreting distr.

C: Bootstap - Critice PREDICTION		distr. of	ZL = a (Sb* SDx) - als) [alsi*)] ~ 2~ bootstep
APSE				
) = 1 5 (v	$\hat{\mu}_s \left(x_n\right)^2$	
Across multiple so				
APSE (P, Jū	M j=1	APSE (P,)		Axx (Vo [4123)
	= 1 5 M 5	1 5 (bn-7 N nep	(2n)	$\frac{1}{M} \sum_{j=1}^{M} \tilde{\mu}_{s_{j}}(x)$
	+ 1 5 -	N Zep (ps; ($(2n)^2$	→ Var [jū]
	1 1 5 N nep	(ā(22) - T($(\alpha_n))^2$	Bius 2 [ū]