

Notes

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Infer mom's genotype by JRI

We have obs. mom and obs. (selfed) kids. We want to know $P(G|\theta)$, and $P(G|\theta) \propto P(\theta|G) \times P(G)$, where θ is observed data. This consists of observed genotypes (G') of both mom and kids. So: $P(G|\theta) \propto \left(\prod_{i=1}^k P(G'_i|G) \right) \times P(G'_{mom}|G) \times P(G)$ This function is to impute mom's genotype from a progeny array of k kids at a single locus. inferred_mom=1 -> 00, 2->01, 3->11

A Bayesian-based Statistical model

$$Y_i = u + \sum_{j=1}^n a_j X_{ij} + e_i$$

Spacing

$$f(x) = x^2 + 3x + 2$$

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