

A: Datasheet

Algorithm: gorilla\_0

Developer: Gorilla Technology

Submission Date: 2018\_02\_01

Template size: 8300 bytes

Template time (2.5 percentile): 401 msec

Template time (median): 426 msec

Template time (97.5 percentile): 463 msec

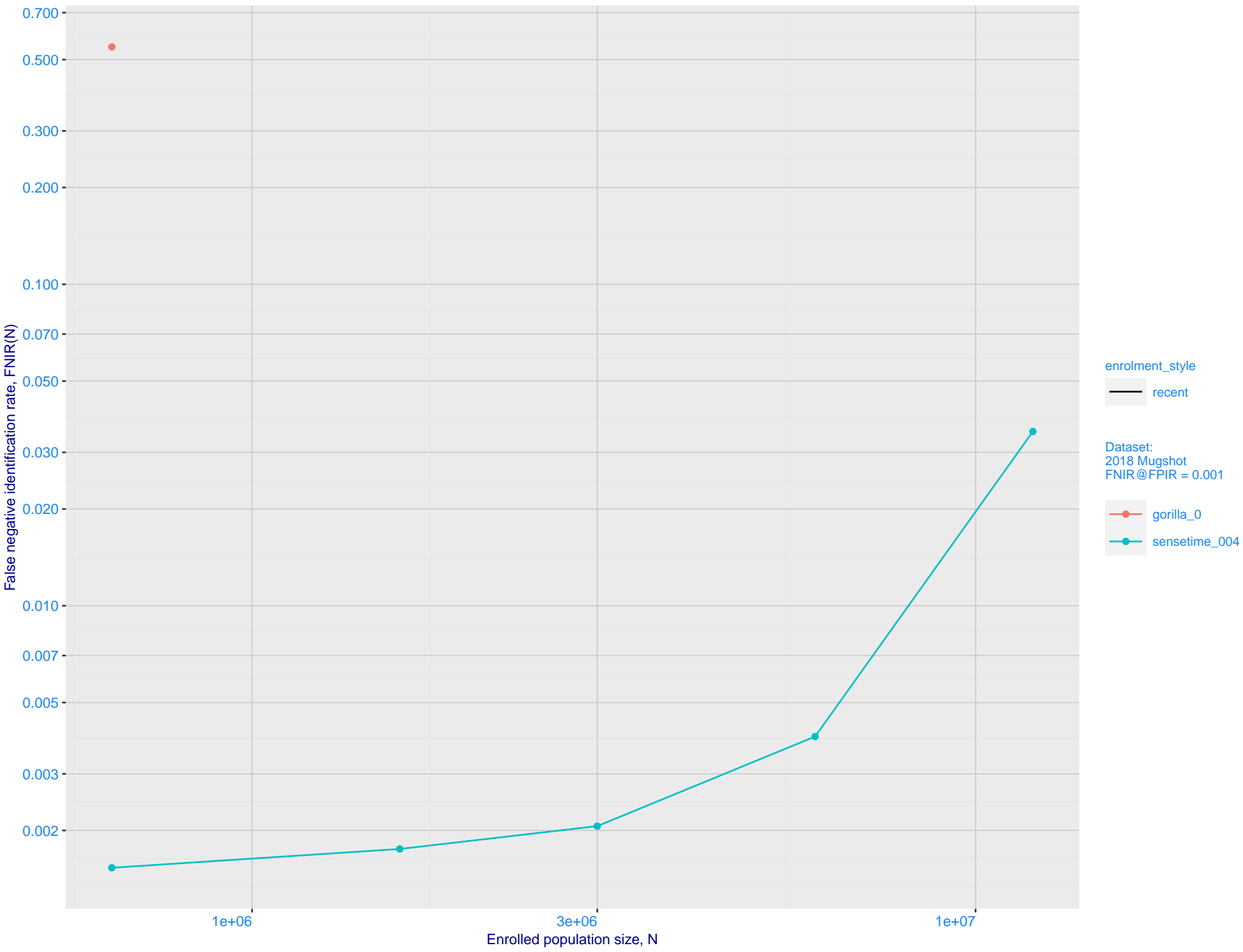
Investigation:

Immigration visa–border ranking 118 (out of 142) — FNIR(1600000, 0, 1) = 0.3232 vs. lowest 0.0014 from visionlabs\_009

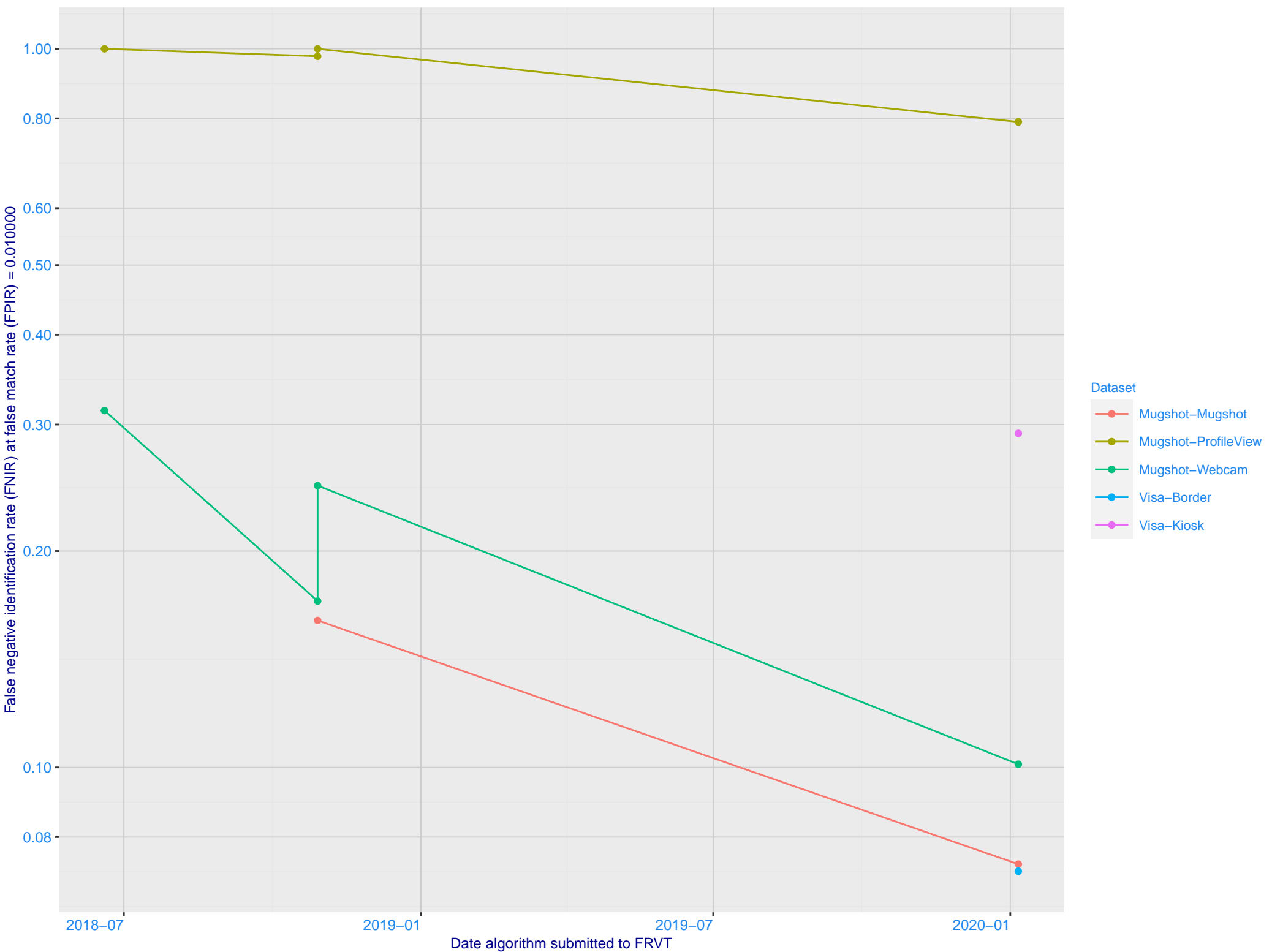
Immigration visa–kiosk ranking 122 (out of 139) — FNIR(1600000, 0, 1) = 0.6668 vs. lowest 0.0694 from cib\_000

Identification:

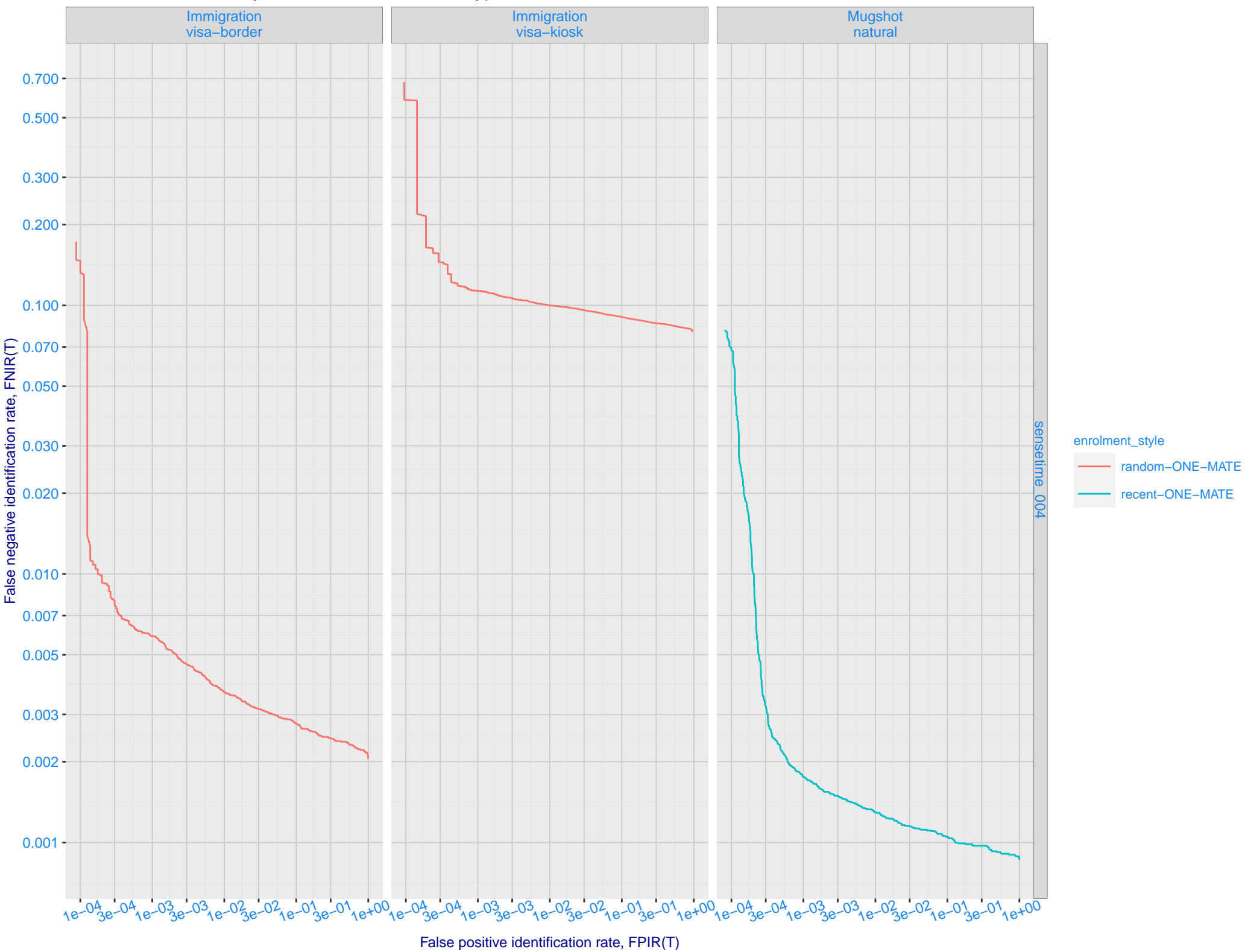
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime\_004)



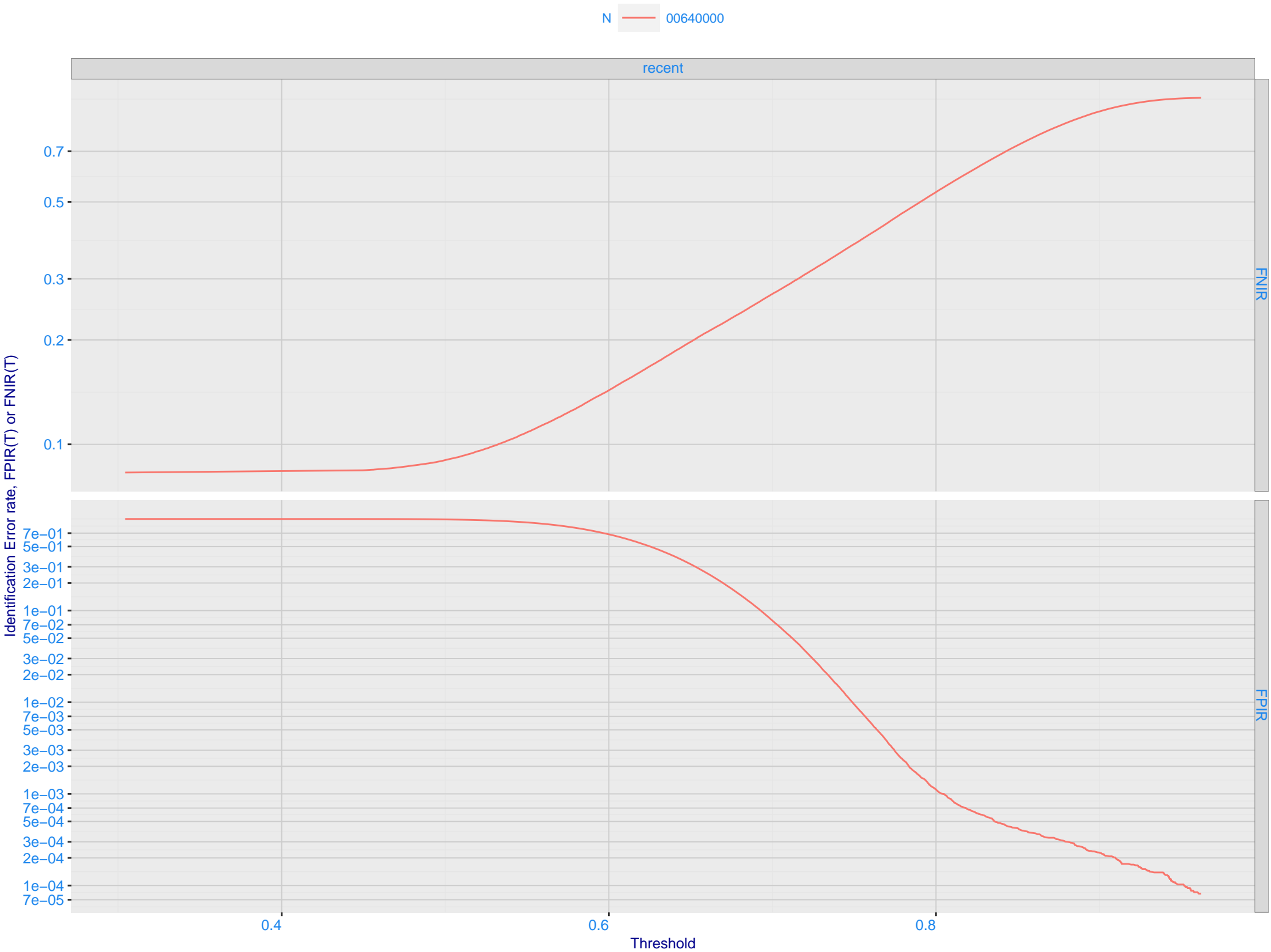
C: Evolution of accuracy for GORILLA algorithms on three datasets 2018 – present



D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



False Positive Identification Rate, FPIR(T)

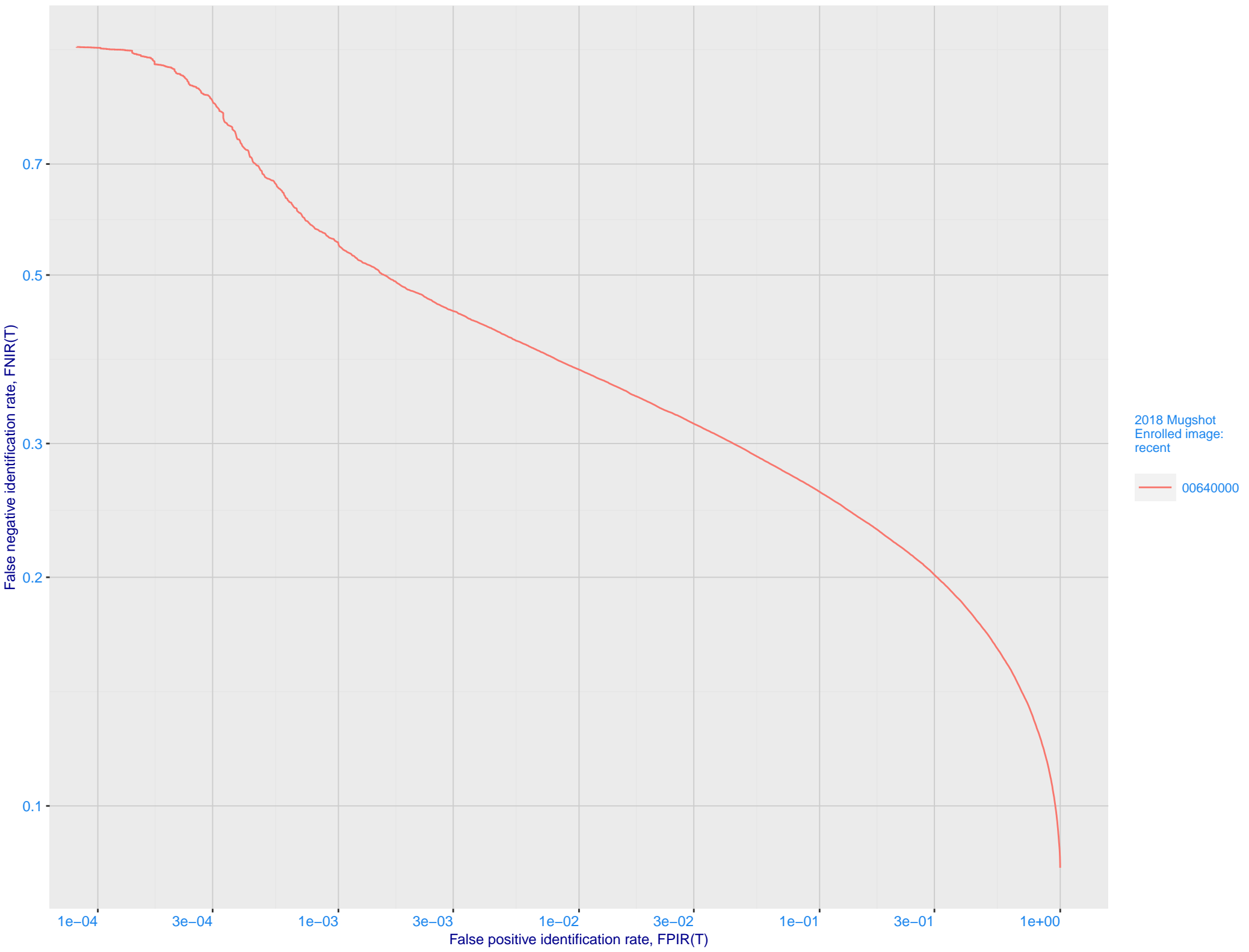
Selectivity, SEL(T)

G: FPIR dependence on T by probe type for N = 1600000 subjects

False Positive Identification Rate, FPIR(T)

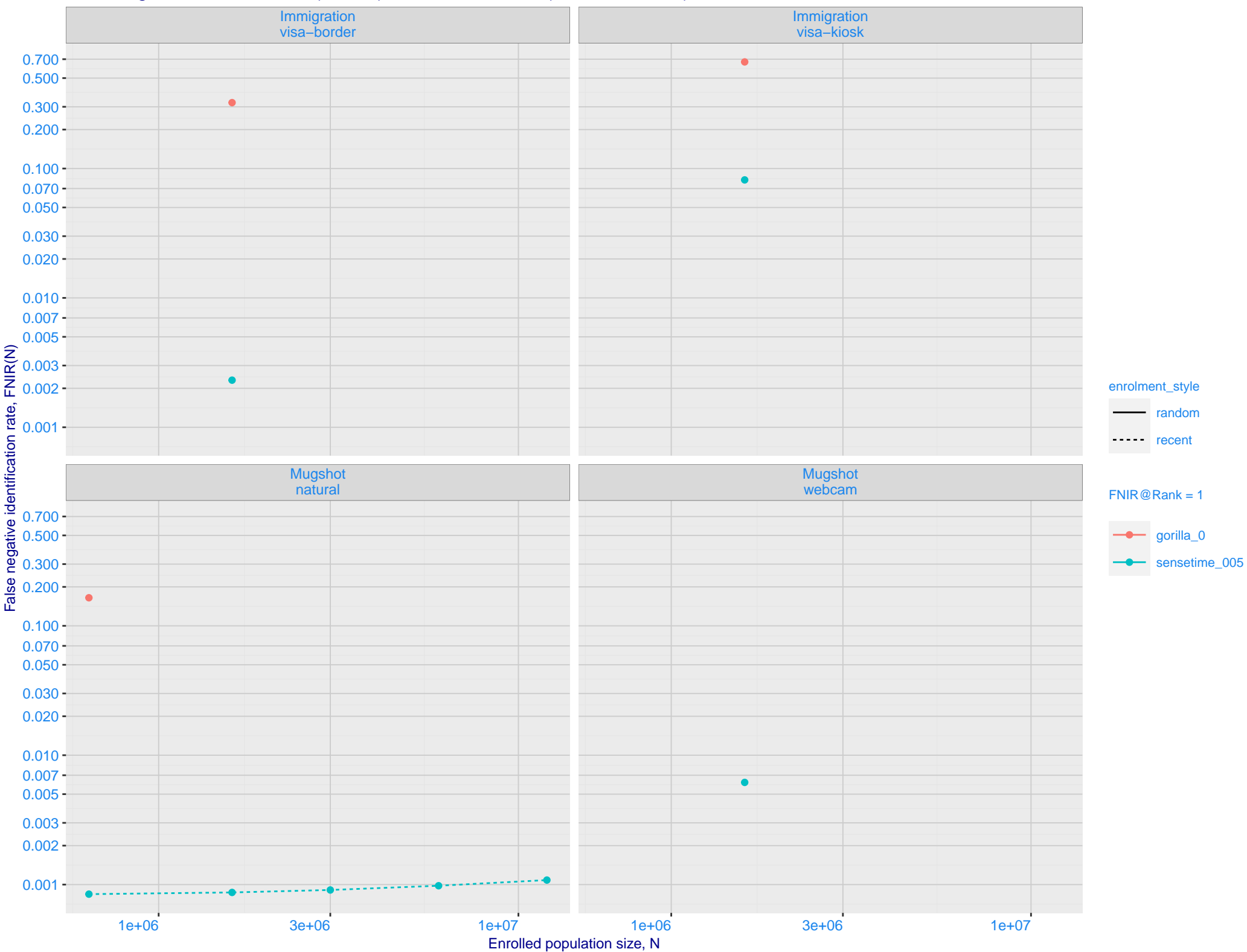
Threshold

H: DET for Mugshot natural images and various N. Links connect points of equal threshold.

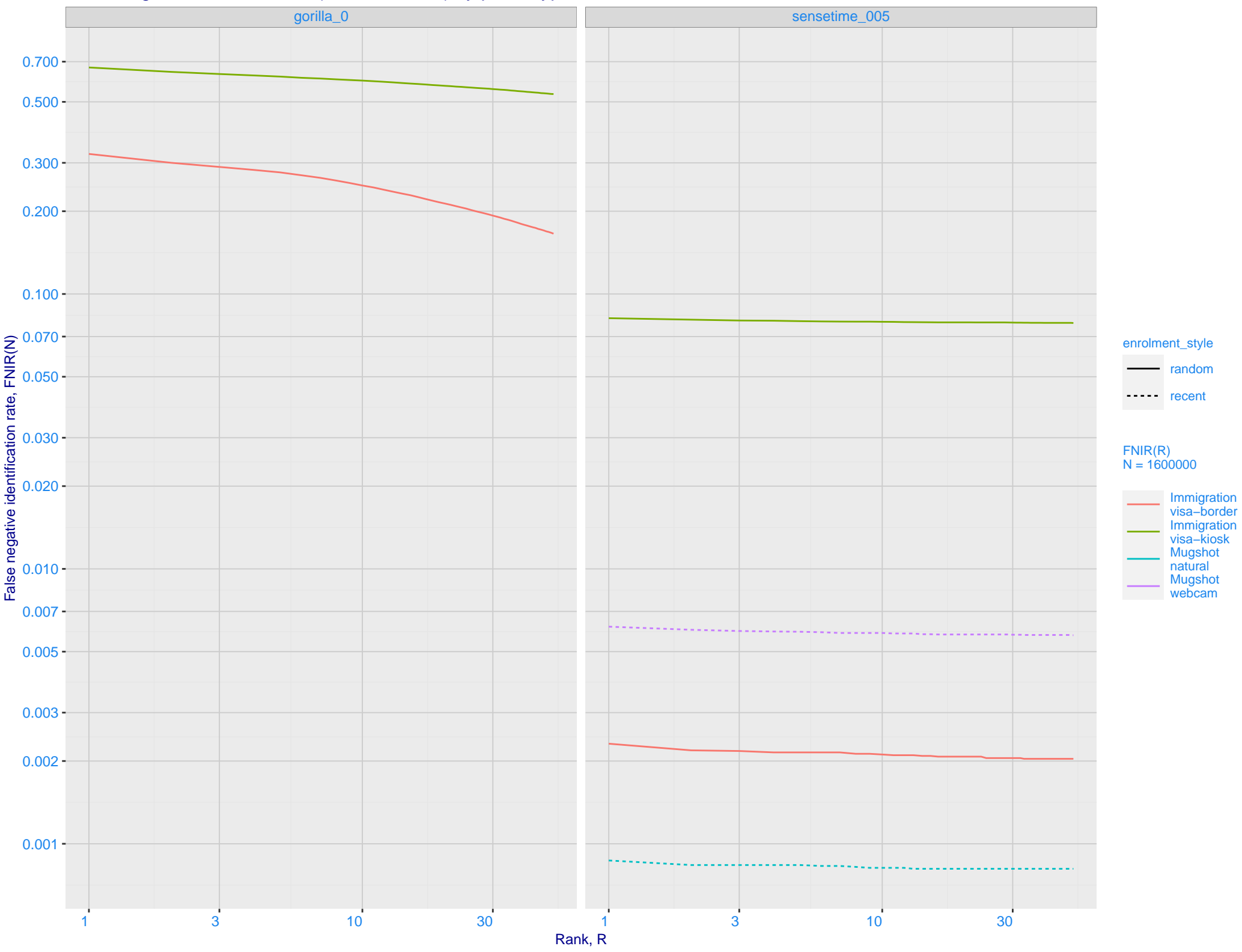




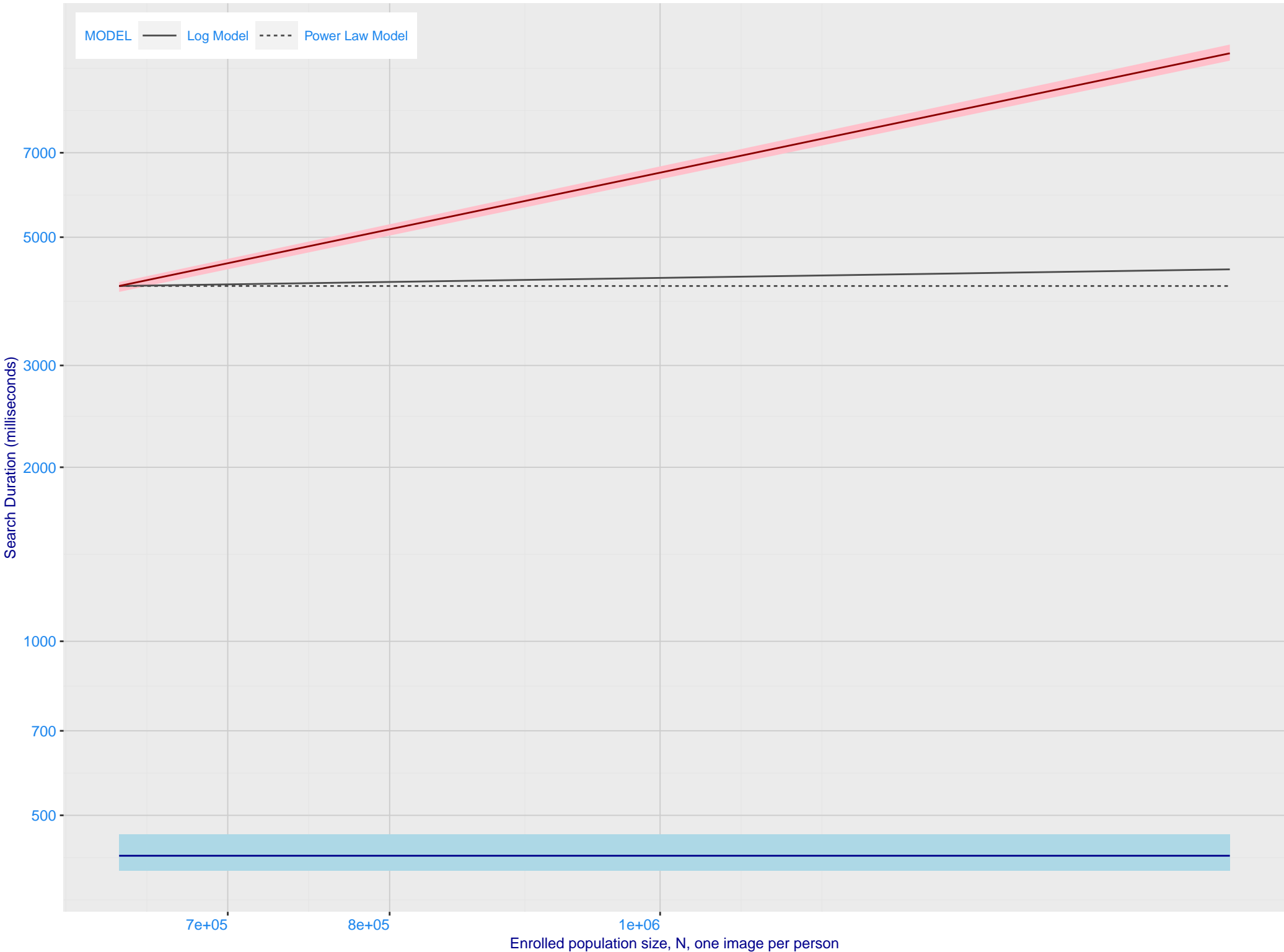
# I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime\_005)



J: Investigational mode: FNIR(1600000, R, 0) by probe type



Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations



M: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing

Dataset: 2018 Mugshot N = 3068801

