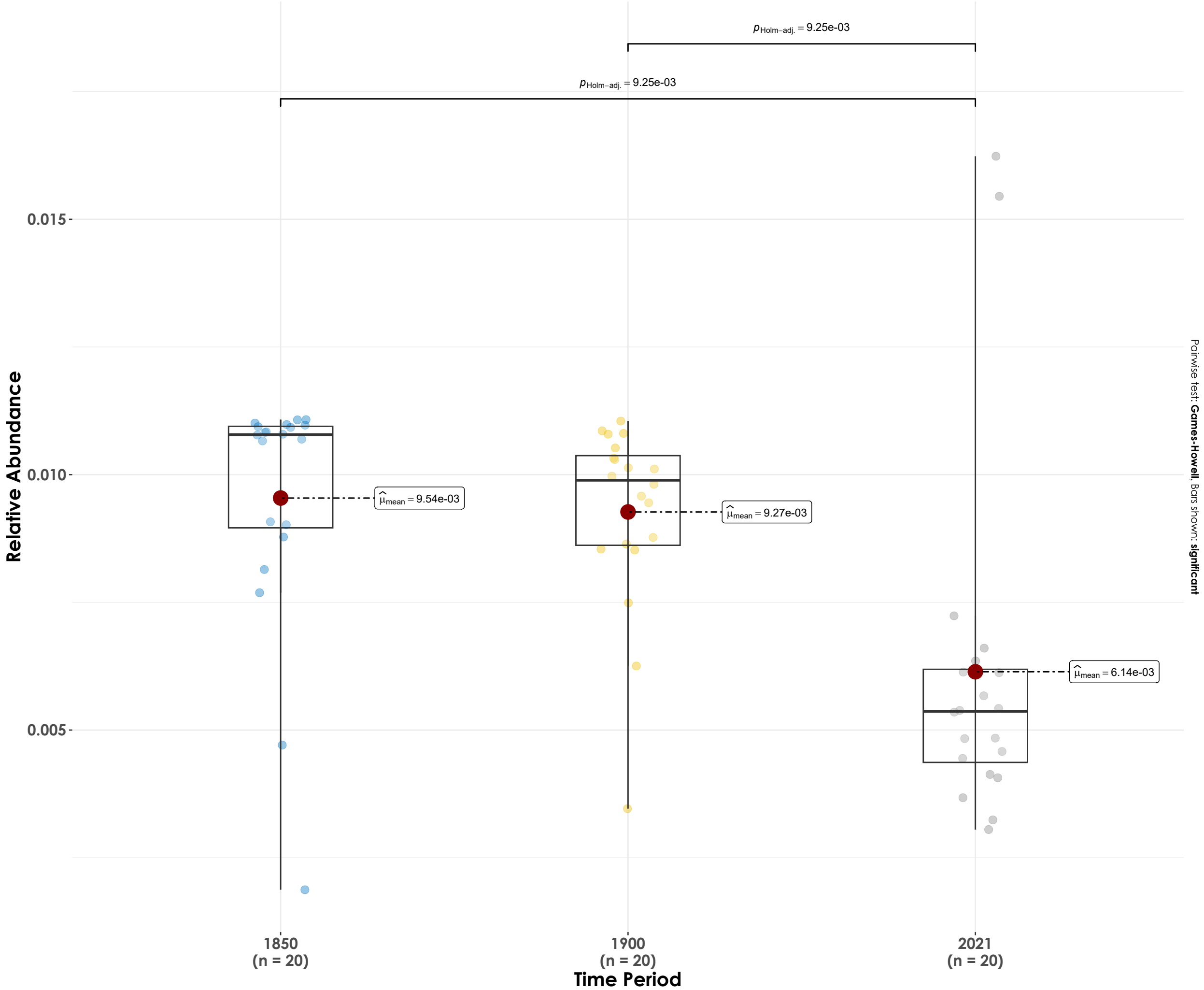# Alpine Swift
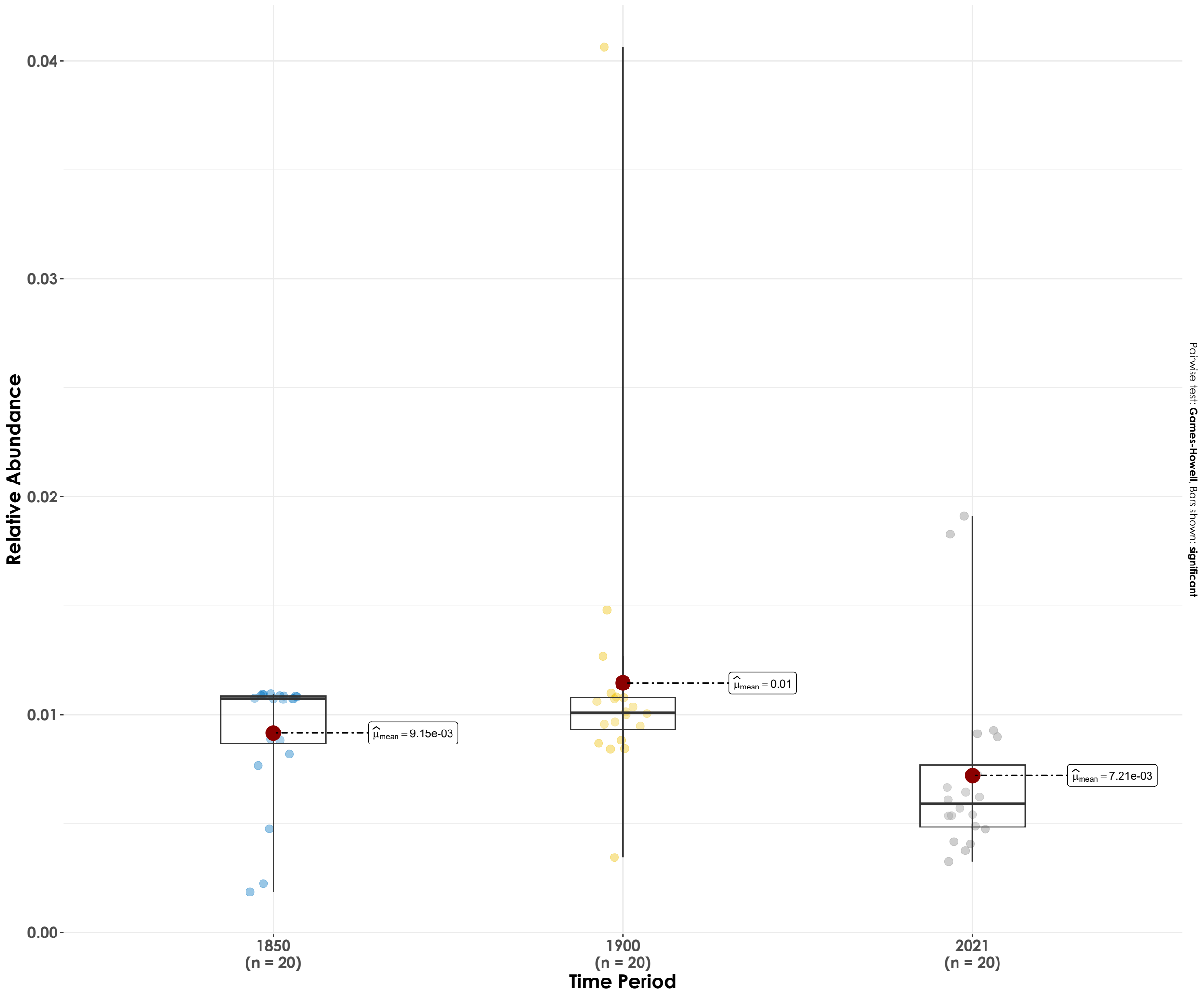
$F_{\text{Welch}}(2, 35.9) = 7.17, p = 2.39\text{e-}03, \widehat{\omega_p^2} = 0.24, \text{CI}_{95\%} [0.05, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 9.25\text{e-}03$

$p_{\text{Holm-adj.}} = 9.25\text{e-}03$

Relative Abundance

0.015

0.010

$\widehat{\mu}_{\text{mean}} = 9.54\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.27\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 6.14\text{e-}03$

0.005

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -4.93, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.23, \text{CI}_{95\%}^{\text{HDI}} [0.06, 0.39], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
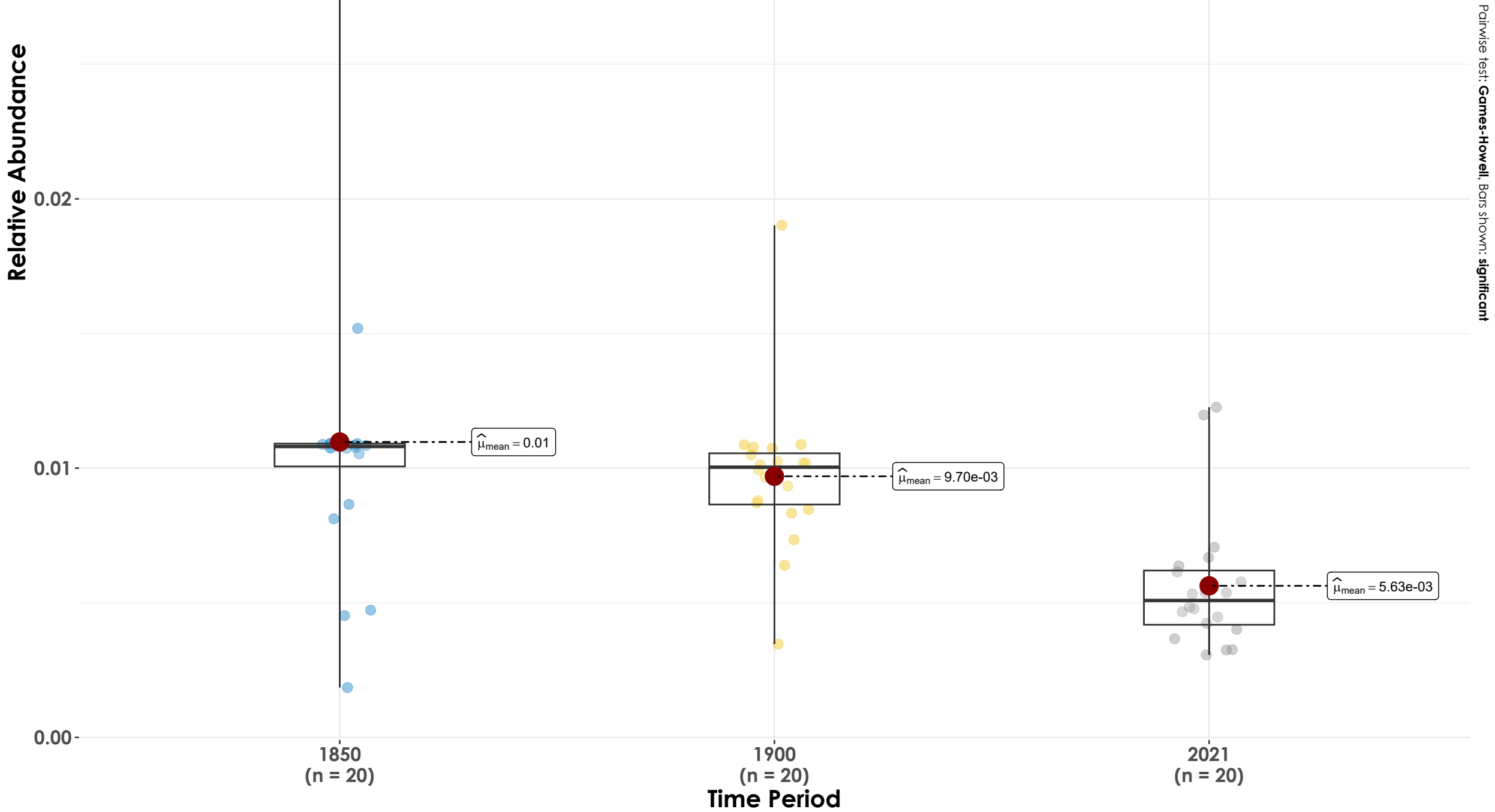
Ashy Drongo

$F_{\text{Welch}}(2, 34.45) = 2.83$, $p = 0.07$, $\widehat{\omega_p^2} = 0.09$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.15\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 7.21\text{e-}03$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -0.25$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.03$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.19], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
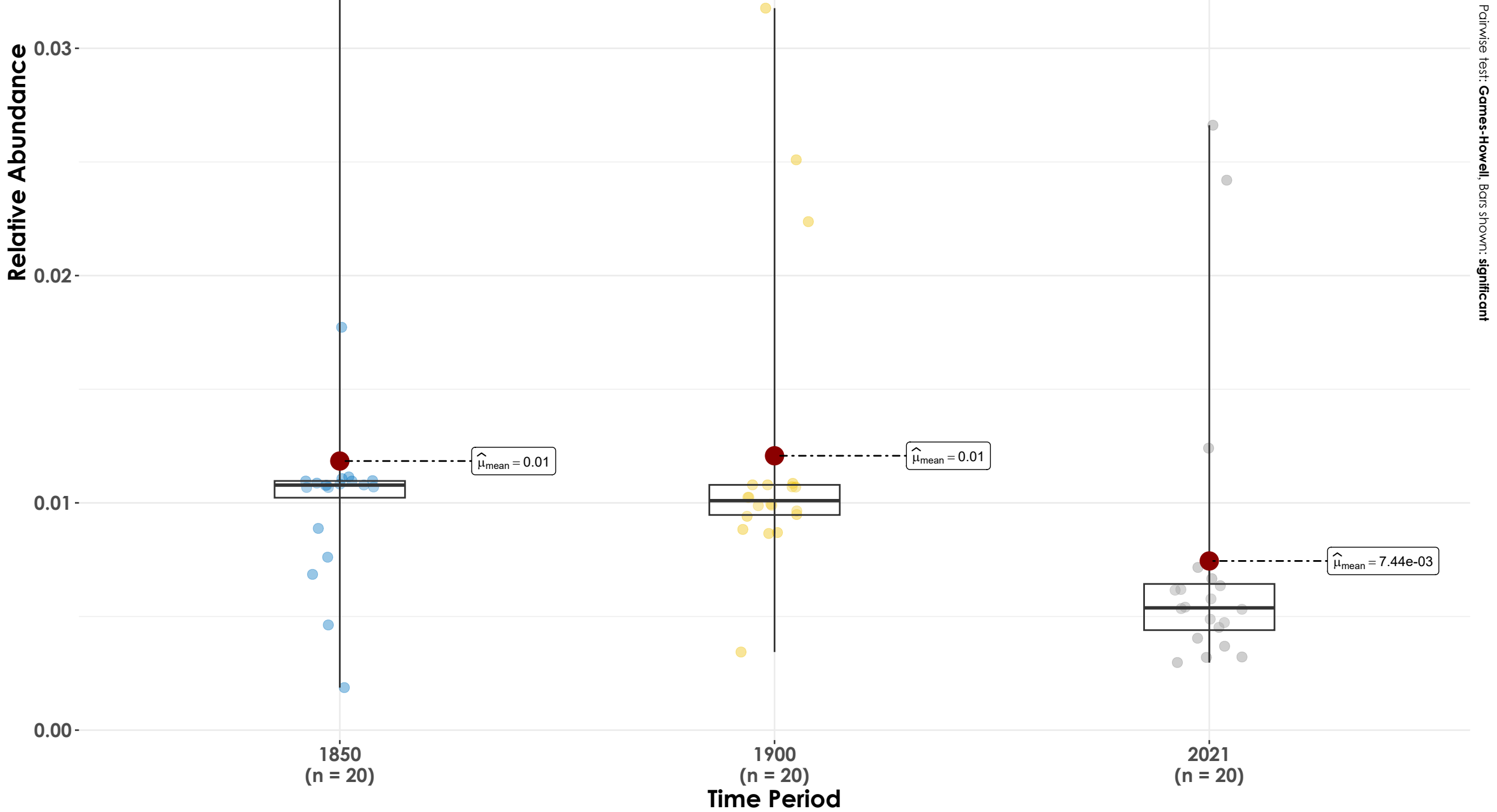
Asian Emerald Dove

$F_{\text{Welch}}(2, 35.19) = 14.05, p = 3.28\text{e-}05, \widehat{\omega^2_p} = 0.41, \text{CI}_{95\%} [0.19, 1.00], n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = -3.75, \widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.19, \text{CI}^{\text{HDI}}_{95\%} [0.00, 0.33], r^{\text{JZS}}_{\text{Cauchy}} = 0.71$
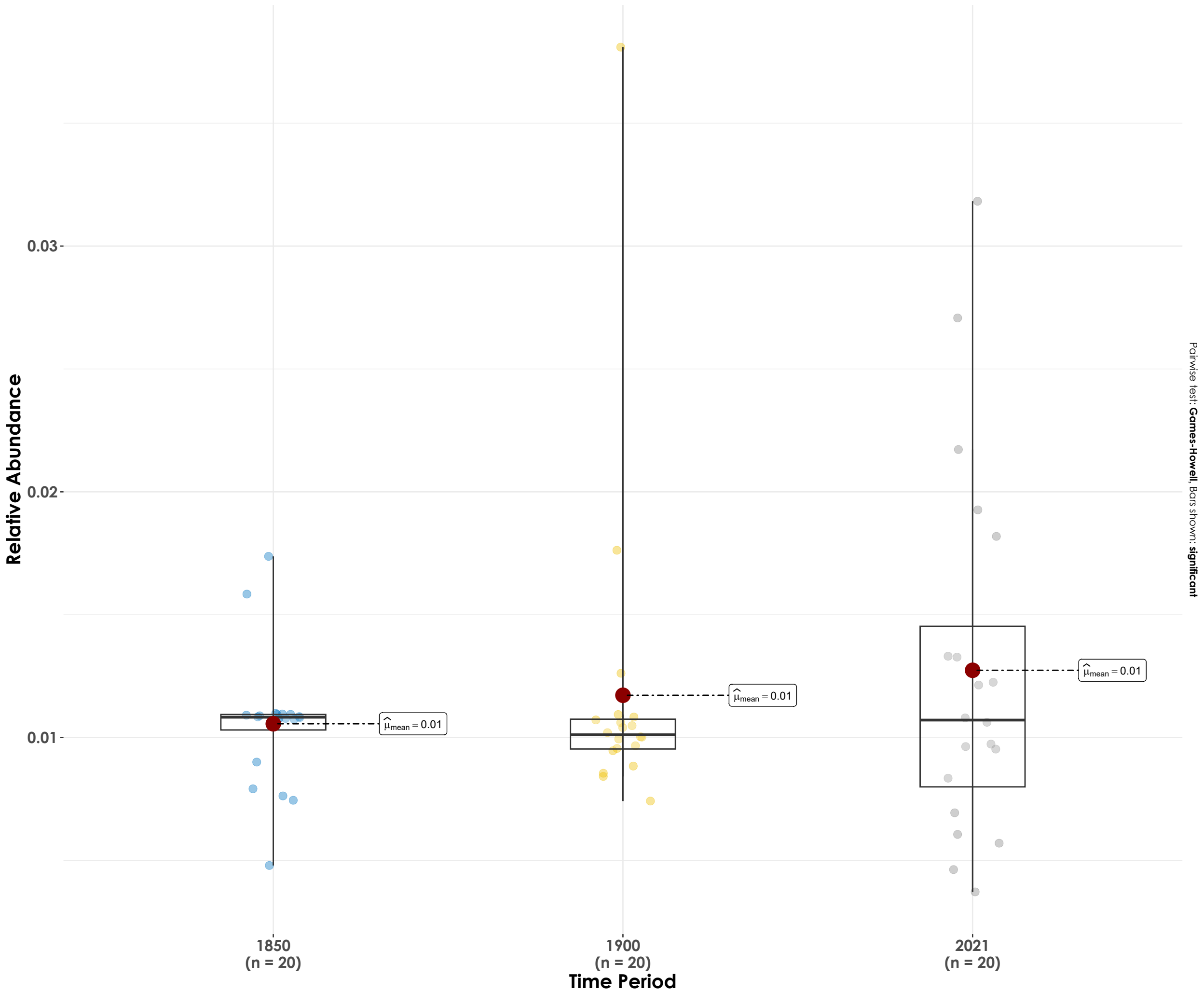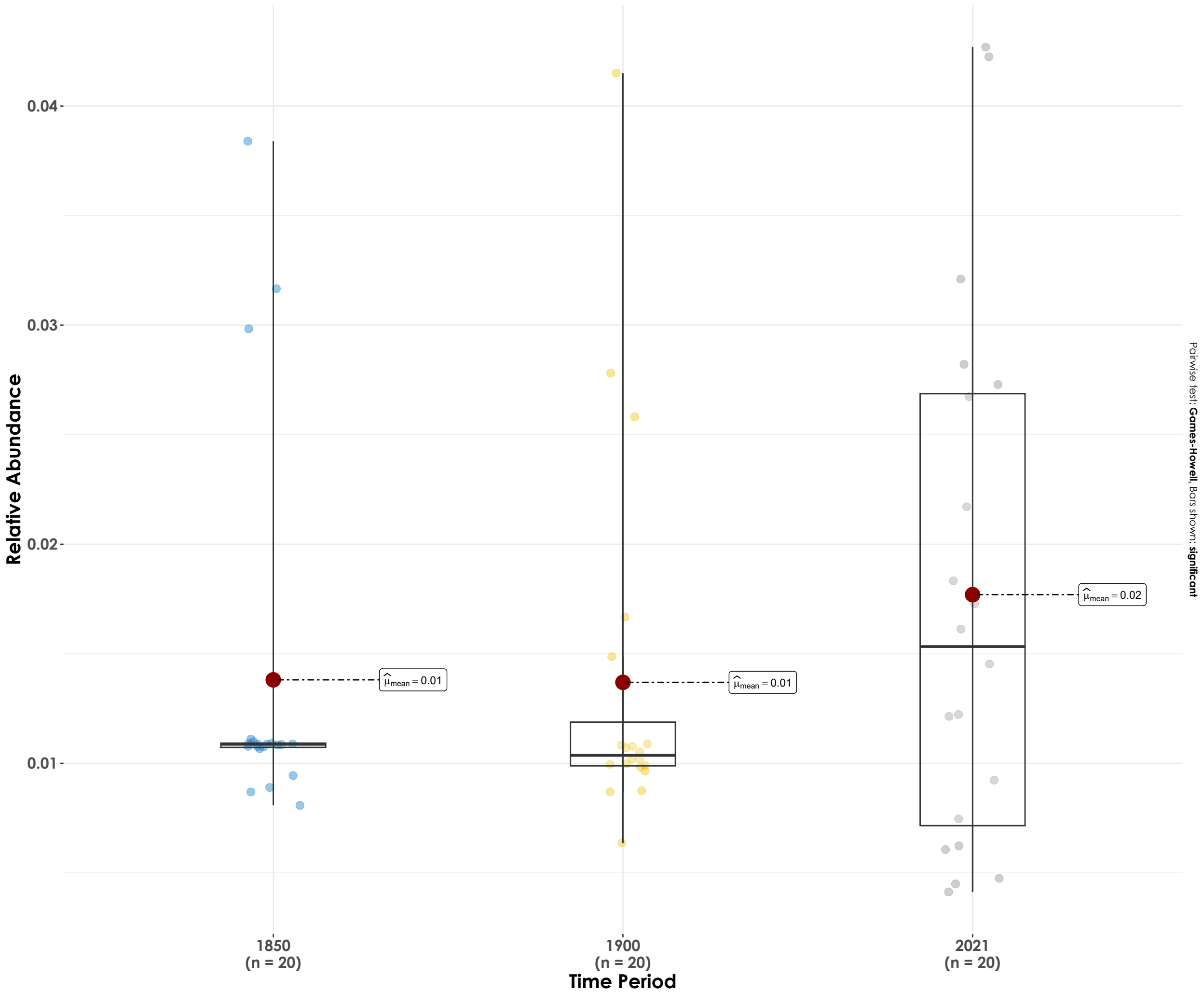
Asian Fairy-bluebird

$F_{\text{Welch}}(2, 37.31) = 2.90, p = 0.07, \widehat{\omega}_p^2 = 0.09, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = 0.54, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.14], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Bar-winged Flycatcher-shrike

$F_{\text{Welch}}(2, 31.26) = 0.91, p = 0.41, \widehat{\omega_p^2} = 0.00, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

Relative Abundance (y-axis)

Time Period (x-axis)

1850 (n = 20) 1900 (n = 20) 2021 (n = 20)

$\widehat{\mu}_{\text{mean}} = 0.01$

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = 1.97, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.04], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Black-and-orange Flycatcher

$F_{\text{Welch}}(2, 37.25) = 0.84$, $p = 0.44$, $\widehat{\omega}_p^2 = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance (y-axis)

0.04

0.03

0.02

0.01

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.02$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = 1.65$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.06], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Black-naped Monarch

$F_{\text{Welch}}(2, 34.03) = 1.77, p = 0.19, \widehat{\omega_p^2} = 0.04, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$
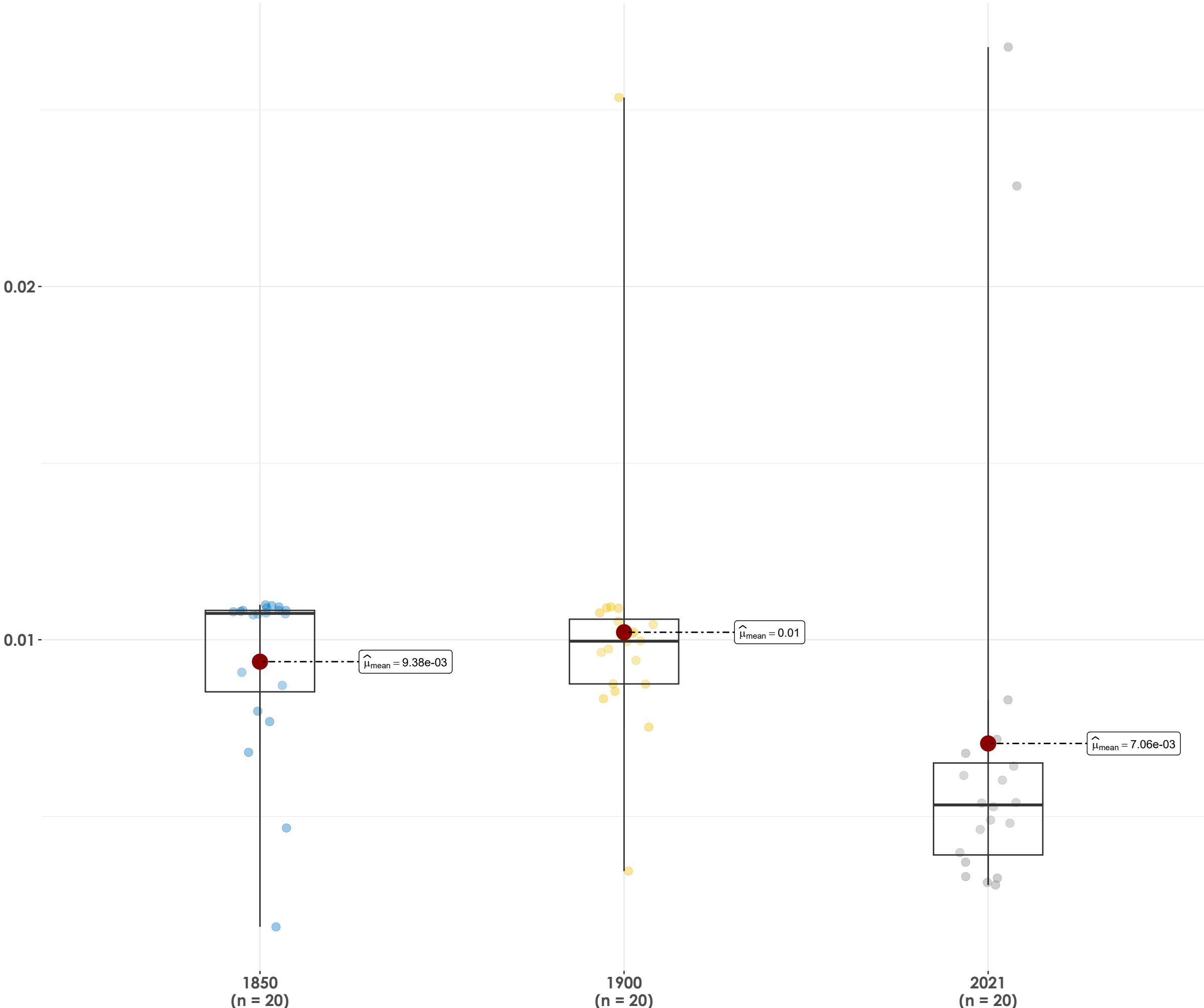

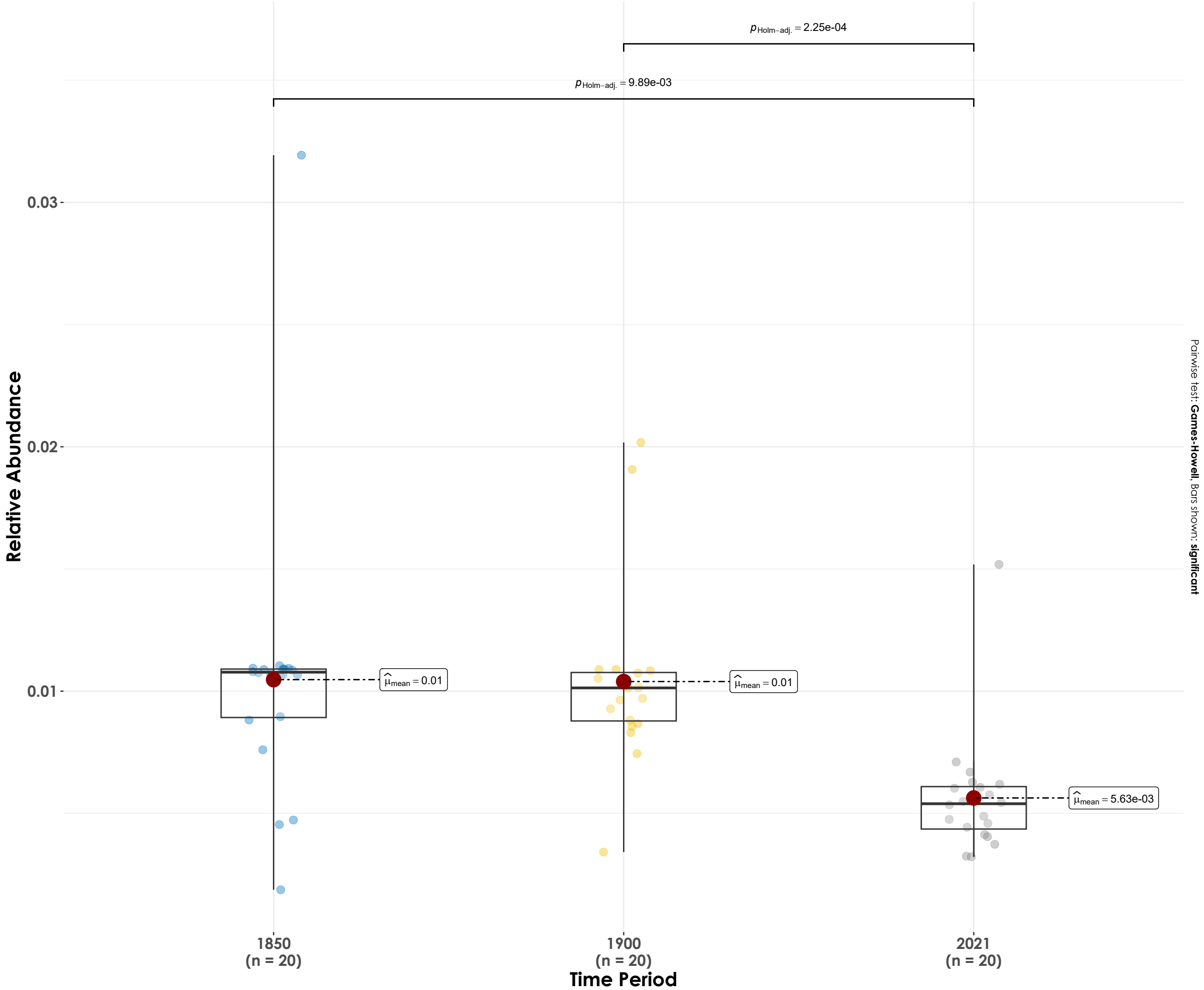$\log_e(\text{BF}_{01}) = 0.40, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.15], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
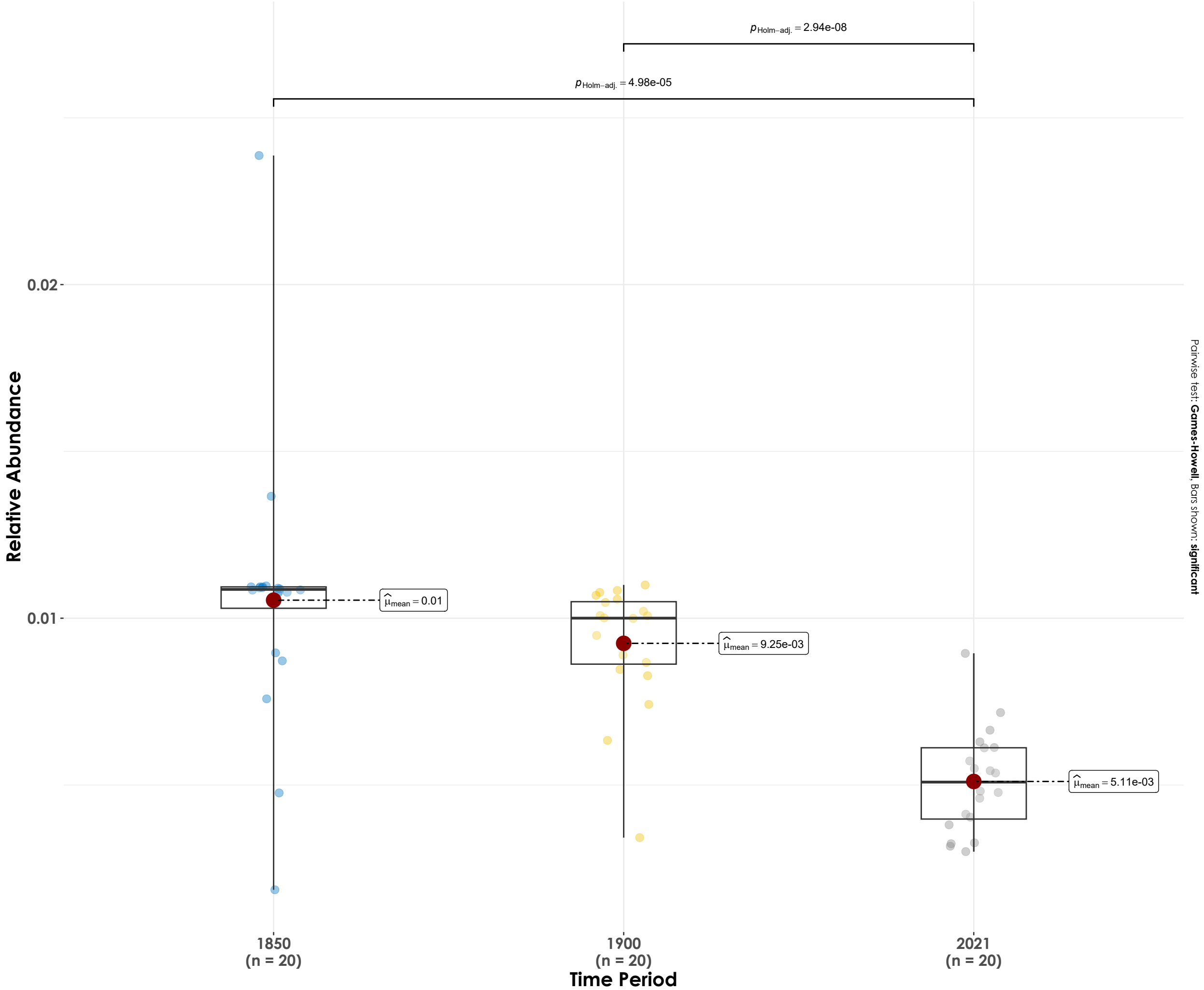
Blue-bearded Bee-eater

$F_{\text{Welch}}(2, 34.91) = 14.48$, $p = 2.63\text{e-}05$, $\widehat{\omega_p^2} = 0.42$, $\text{CI}_{95\%}$ [0.19, 1.00], $n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = -4.24$, $\widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.21$, $\text{CI}^{\text{HDI}}_{95\%}$ [0.05, 0.37], $r^{\text{JZS}}_{\text{Cauchy}} = 0.71$

Blue-faced Malkoha

$F_{\text{Welch}}(2, 35.07) = 36.93$, $p = 2.34\text{e-}09$, $\widehat{\omega}_p^2 = 0.65$, $\text{CI}_{95\%}$ [0.48, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 2.94\text{e-}08$

$p_{\text{Holm-adj.}} = 4.98\text{e-}05$

Relative Abundance (y-axis)

Time Period (x-axis)

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.25\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 5.11\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

$\log_e(\text{BF}_{01}) = -11.99$, $\widehat{R}^2{}^{\text{posterior}}_{\text{Bayesian}} = 0.40$, $\text{CI}^{\text{HDI}}_{95\%}$ [0.23, 0.54], $r^{\text{JZS}}_{\text{Cauchy}} = 0.71$
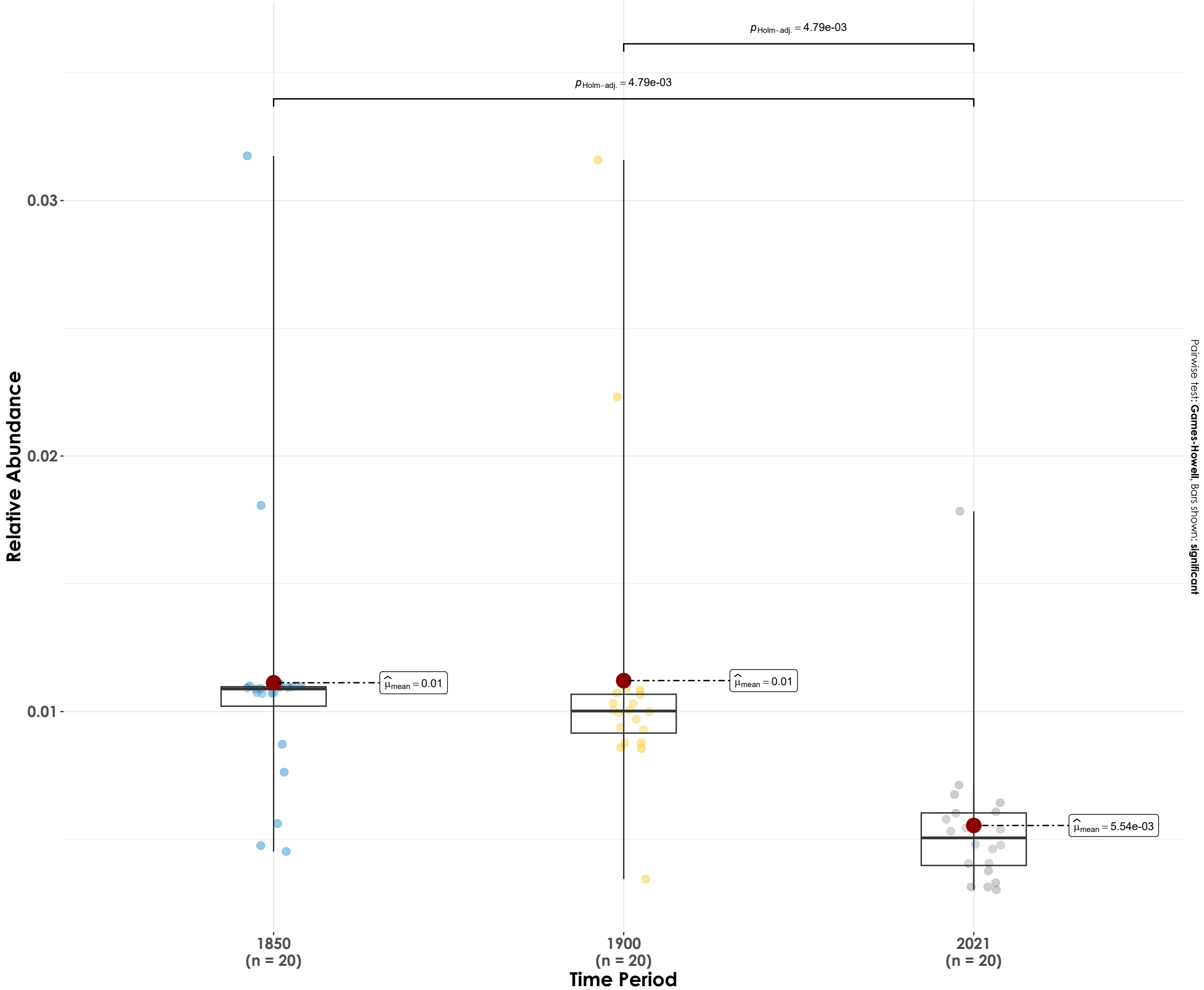
Bronzed Drongo

$F_{\text{Welch}}(2, 34.73) = 11.78$, $p = 1.25\text{e-}04$, $\widehat{\omega}_p^2 = 0.36$, $\text{CI}_{95\%}$ [0.14, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 4.79\text{e-}03$

$p_{\text{Holm-adj.}} = 4.79\text{e-}03$

0.03

Relative Abundance

0.02

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

0.01

$\widehat{\mu}_{\text{mean}} = 5.54\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(BF_{01}) = -3.86$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.19$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.03, 0.36], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
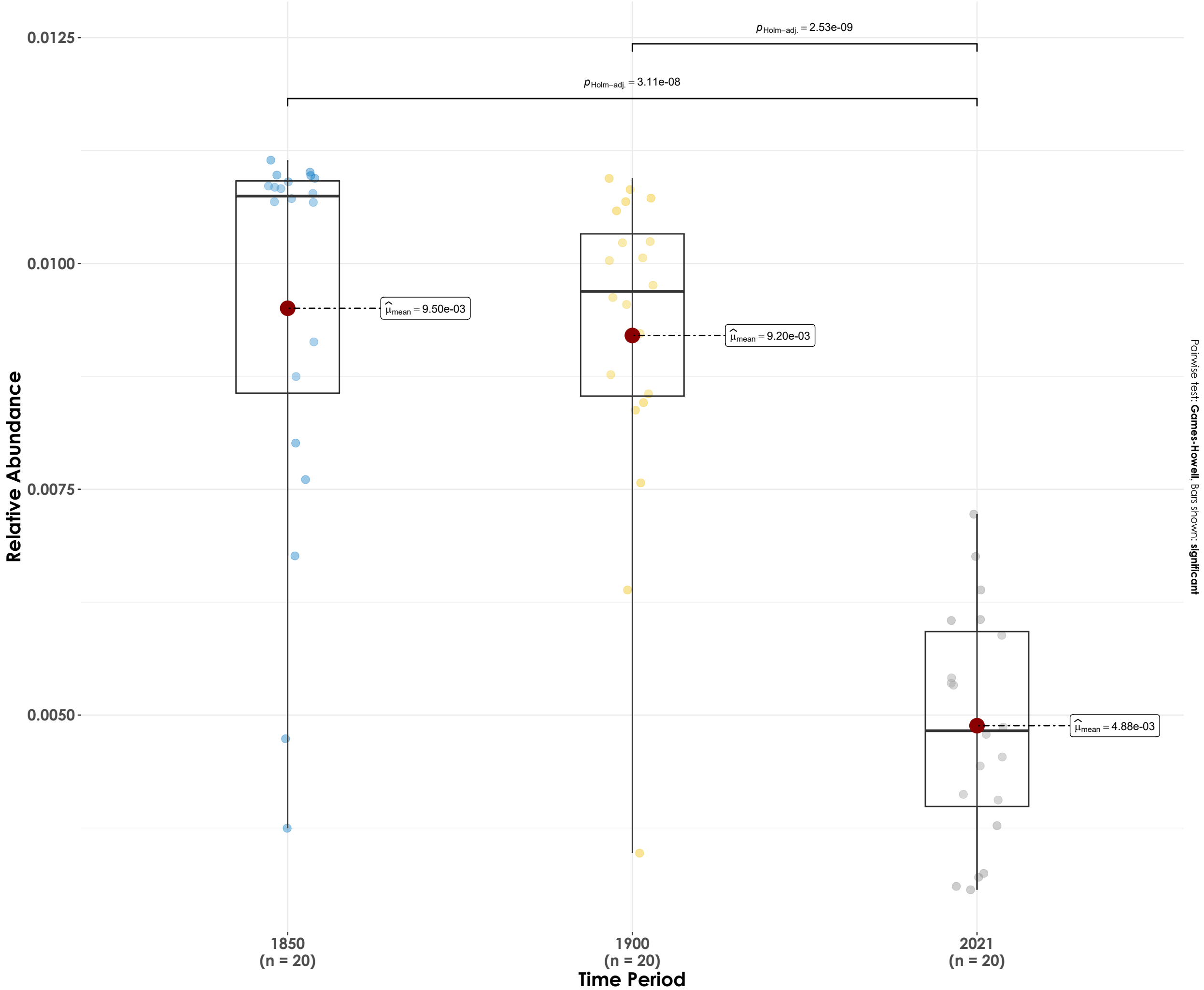
Brown-backed Needletail

$F_{\text{Welch}}(2, 35.97) = 54.39$, $p = 1.33\text{e-}11$, $\widehat{\omega}_p^2 = 0.73$, $\text{CI}_{95\%}$ [0.60, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 2.53\text{e-}09$

$p_{\text{Holm-adj.}} = 3.11\text{e-}08$

$\widehat{\mu}_{\text{mean}} = 9.50\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.20\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.88\text{e-}03$

Relative Abundance

Pairwise test: **Games-Howell**, Bars shown: **significant**

0.0125

0.0100

0.0075

0.0050

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -20.67$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.57$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.44, 0.67], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Brown-cheeked Fulvetta

$F_{\text{Welch}}(2, 35.42) = 0.01, p = 0.99, \widehat{\omega_p^2} = 0.00, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$
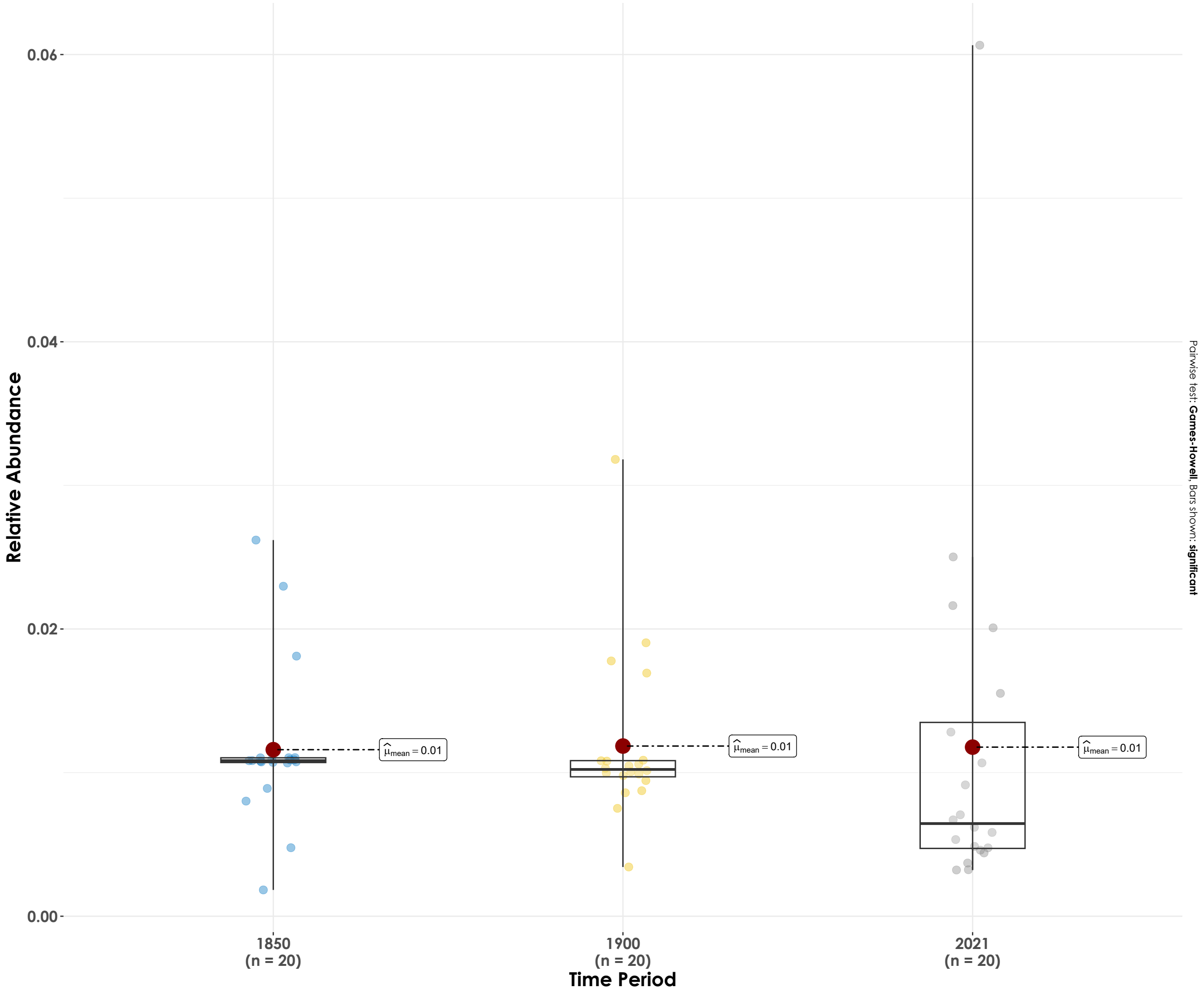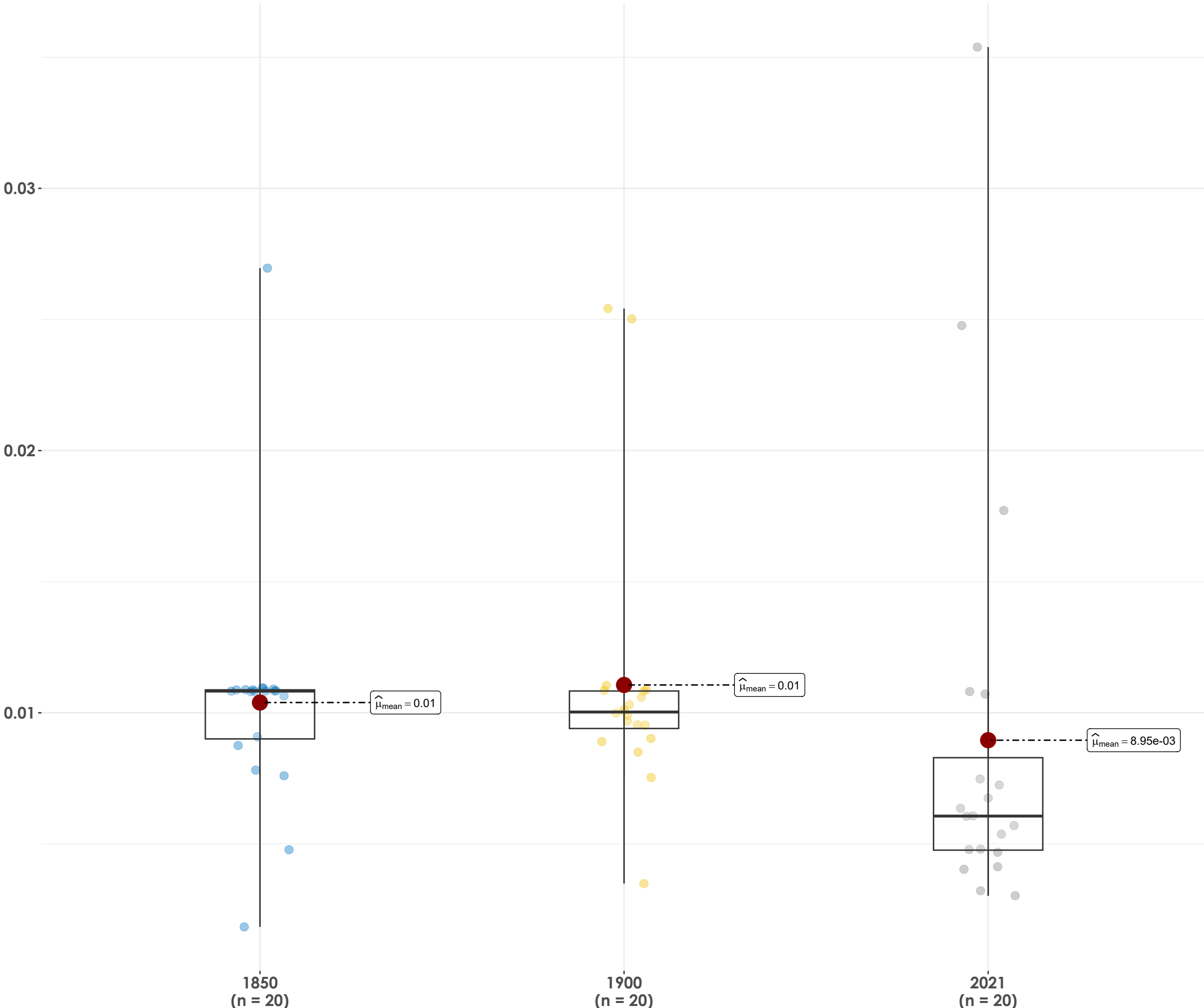

$\log_e(\text{BF}_{01}) = 2.53, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.01], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Chestnut-headed Bee-eater

$F_{\text{Welch}}(2, 36.51) = 0.47$, $p = 0.63$, $\widehat{\omega_p^2} = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 8.95\text{e-}03$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = 2.02$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.04], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Chestnut-tailed Starling

$F_{\text{Welch}}(2, 30.76) = 29.84$, $p = 6.24\text{e-}08$, $\widehat{\omega_p^2} = 0.63$, $\text{CI}_{95\%}$ [0.44, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 7.25\text{e-}04$

$p_{\text{Holm-adj.}} = 3.19\text{e-}06$

$\widehat{\mu}_{\text{mean}} = 9.30\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 4.88\text{e-}03$

Relative Abundance

0.03

0.02

0.01

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**
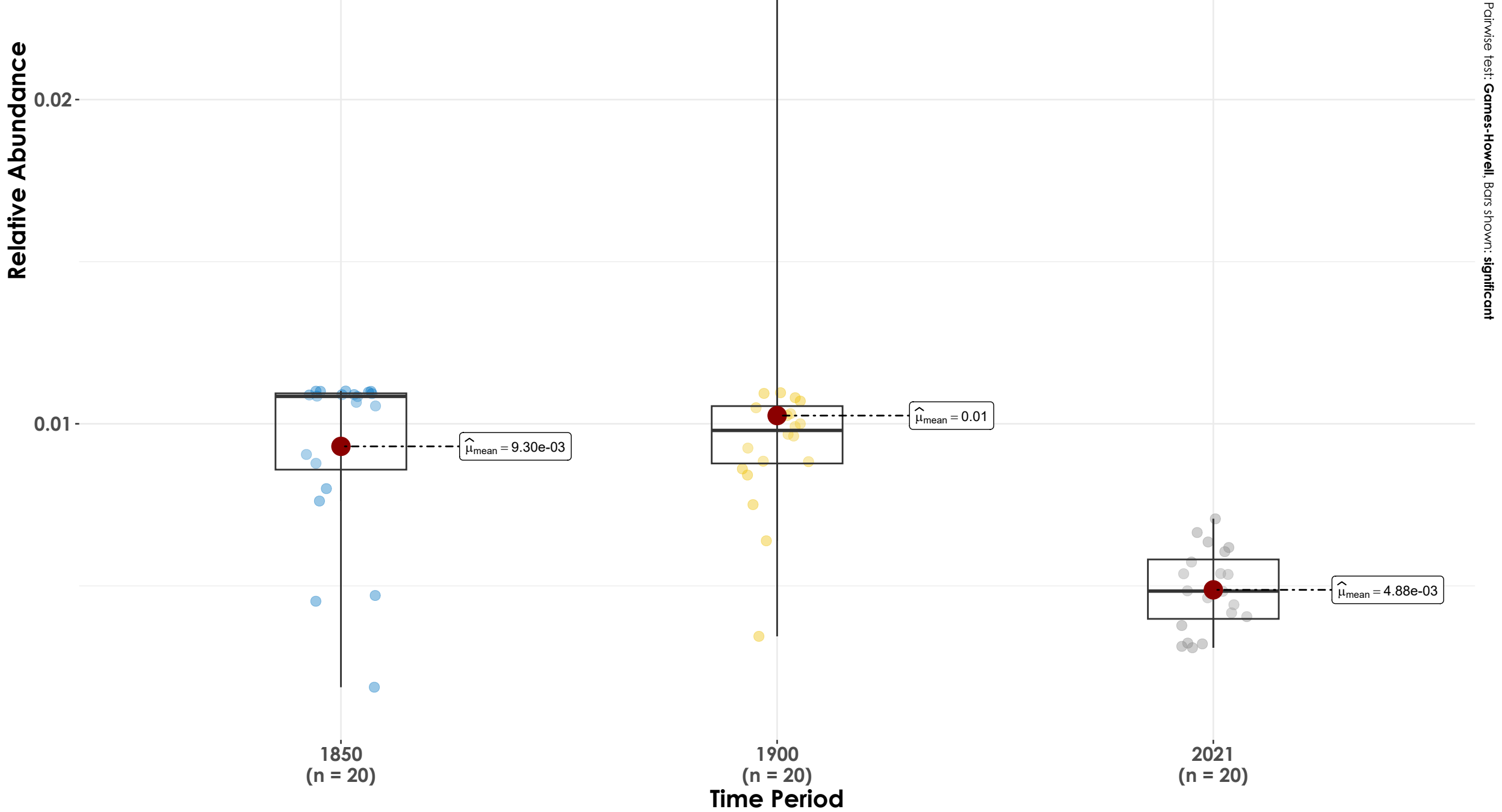
$\log_e(\text{BF}_{01}) = -7.93$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.31$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.13, 0.45], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
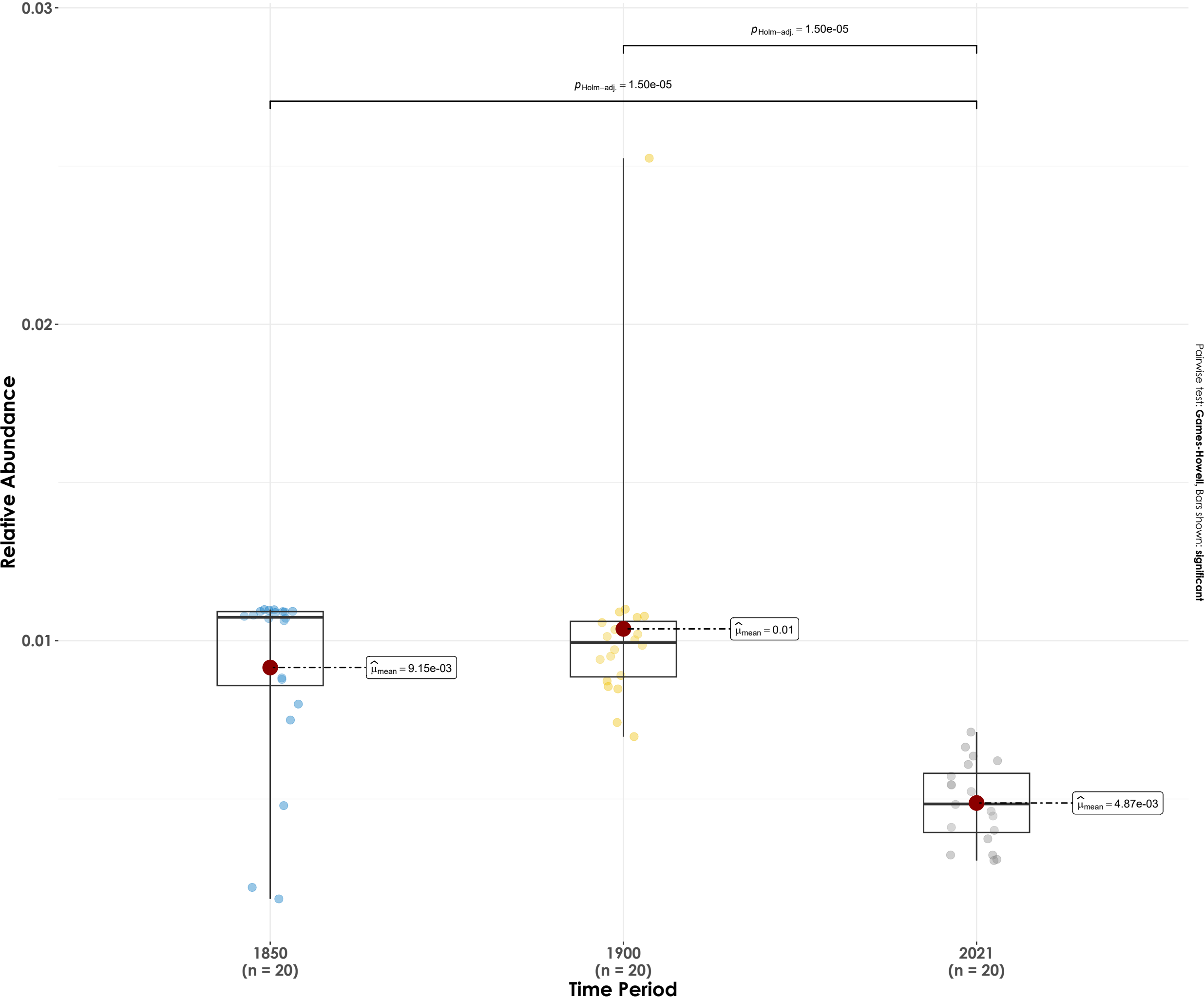
Common Hawk-Cuckoo

$F_{\text{Welch}}(2, 31.27) = 33.11, p = 1.90\text{e-}08, \widehat{\omega_p^2} = 0.65, \text{CI}_{95\%} [0.47, 1.00], n_{\text{obs}} = 60$
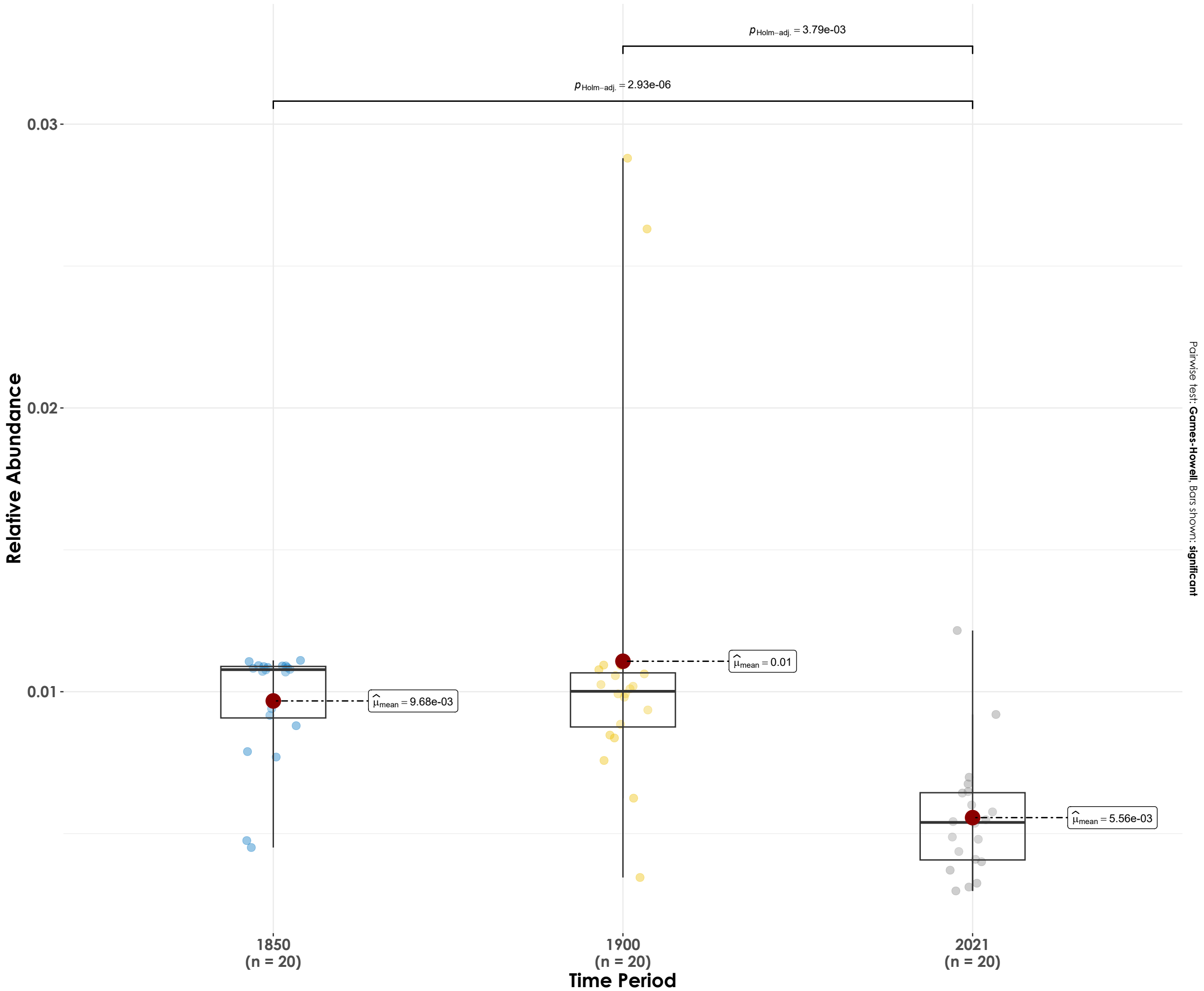

$\log_e(\text{BF}_{01}) = -11.65, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.39, \text{CI}_{95\%}^{\text{HDI}} [0.24, 0.54], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Common Rosefinch

$F_{\text{Welch}}(2, 34.97) = 21.59, p = 7.82\text{e-}07, \widehat{\omega_p^2} = 0.52, \text{CI}_{95\%} [0.31, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 3.79\text{e-}03$

$p_{\text{Holm-adj.}} = 2.93\text{e-}06$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.68\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 5.56\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Time Period

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

$\log_e(\text{BF}_{01}) = -5.75, \widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.25, \text{CI}^{\text{HDI}}_{95\%} [0.09, 0.41], r^{\text{JZS}}_{\text{Cauchy}} = 0.71$

Crimson-backed Sunbird

$F_{\text{Welch}}(2, 28.63) = 5.80, p = 7.70\text{e-}03, \widehat{\omega_p^2} = 0.23, \text{CI}_{95\%} [0.02, 1.00], n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = -3.83, \widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.19, \text{CI}^{\text{HDI}}_{95\%} [0.03, 0.36], r^{\text{JZS}}_{\text{Cauchy}} = 0.71$

Golden-fronted Leafbird

$F_{\text{Welch}}(2, 34.84) = 25.06$, $p = 1.80\text{e-}07$, $\widehat{\omega}_p^2 = 0.56$, $\text{CI}_{95\%}$ [0.36, 1.00], $n_{\text{obs}} = 60$
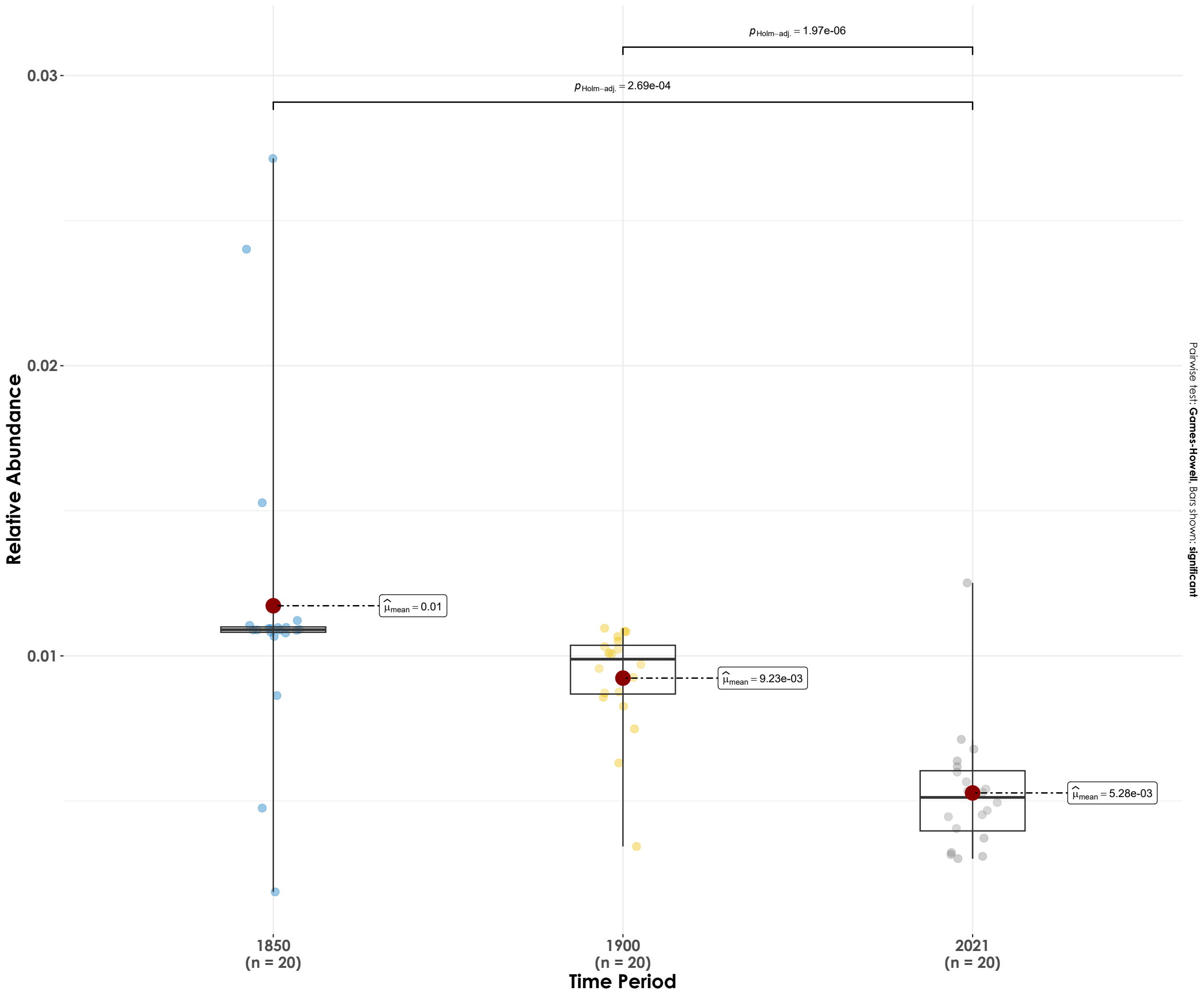
$\log_e(\text{BF}_{01}) = -9.27$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.34$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.18, 0.50], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Gray Junglefowl
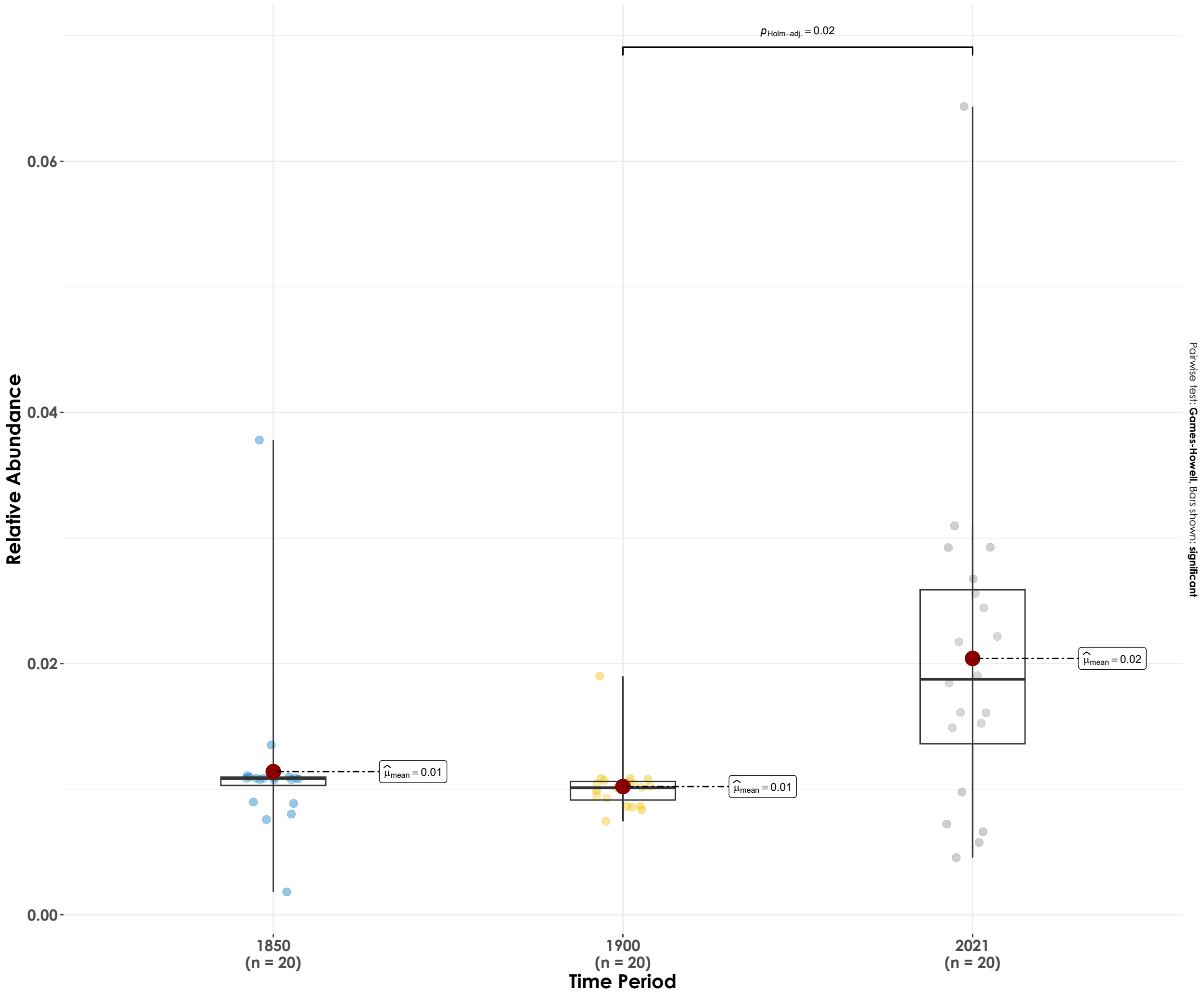
$F_{\text{Welch}}(2, 34.56) = 17.88$, $p = 4.66\text{e-}06$, $\widehat{\omega_p^2} = 0.47$, $\text{CI}_{95\%}$ [0.26, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 1.01\text{e-}05$

$p_{\text{Holm-adj.}} = 4.17\text{e-}03$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.02$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

Pairwise test: **Games-Howell**, Bars shown: **significant**

| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period

$\log_e(\text{BF}_{01}) = -7.65$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.30$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.13, 0.45], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Gray-headed Canary-Flycatcher

$F_{\text{Welch}}(2, 28.6) = 4.48$, $p = 0.02$, $\widehat{\omega_p^2} = 0.18$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance

0.04

0.03

0.02

$\widehat{\mu}_{\text{mean}} = 0.02$

0.01

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.79\text{e-}03$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**
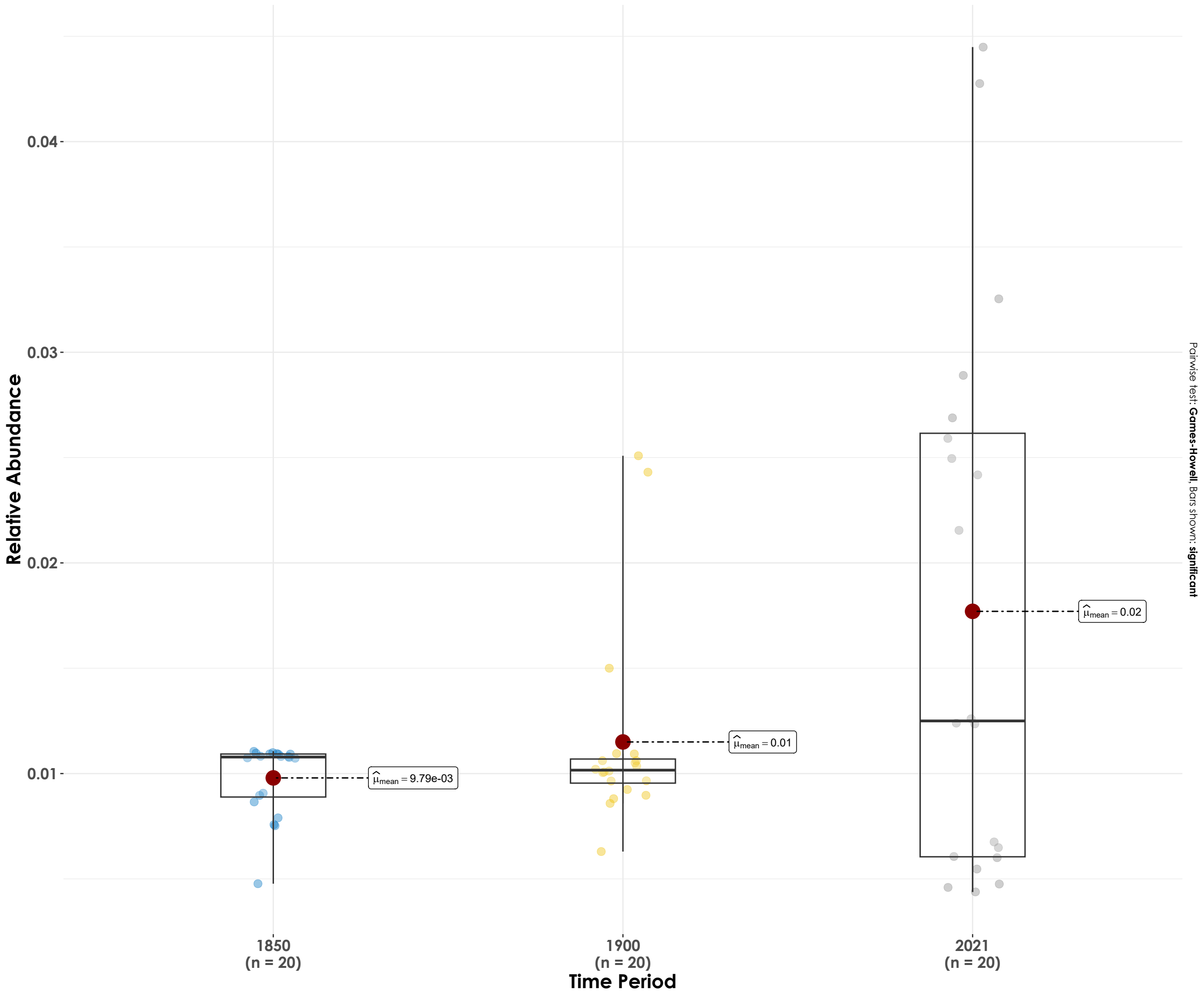
$\log_e(\text{BF}_{01}) = -1.67$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.11$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.25], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
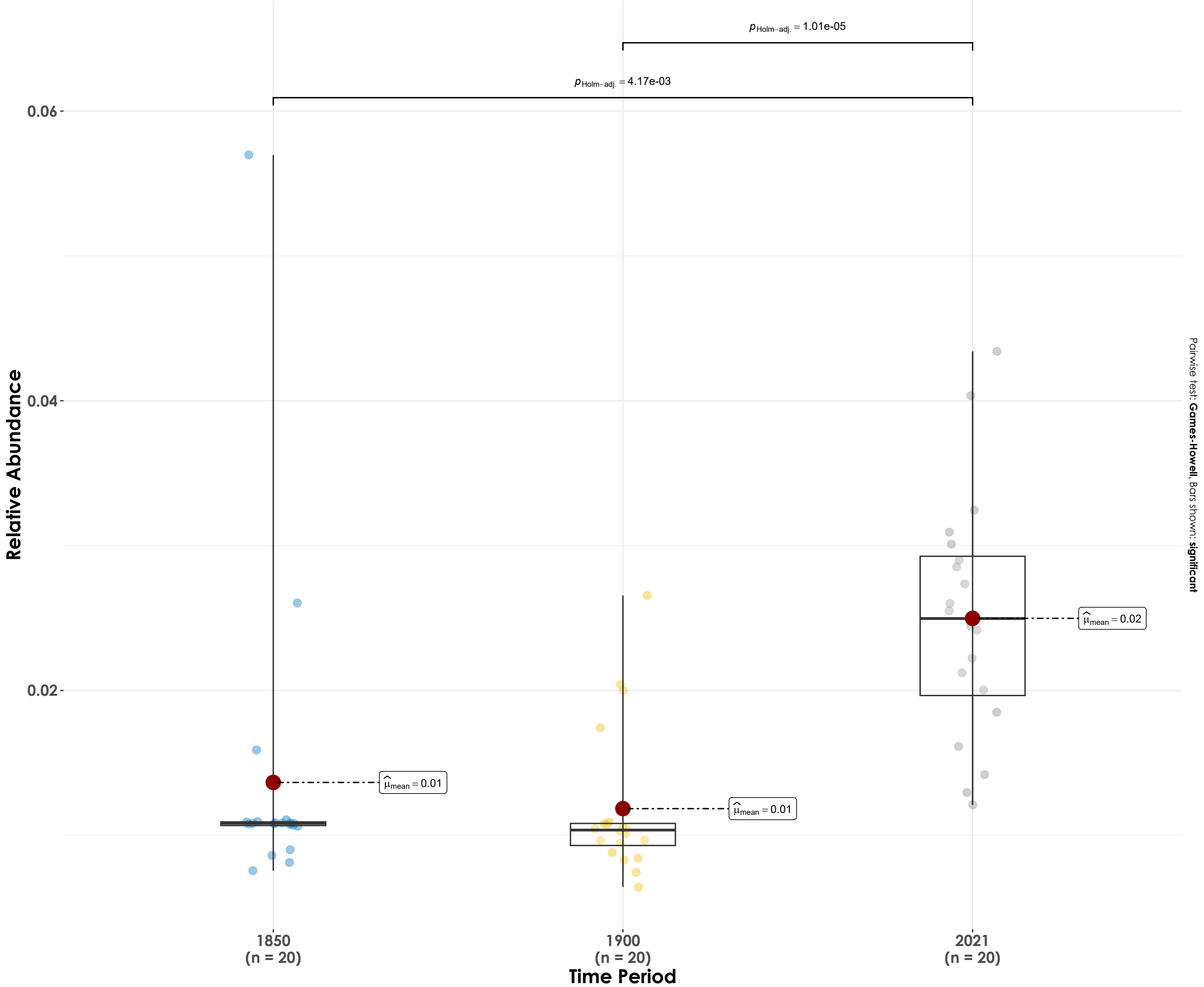
Greater Flameback

$F_{\text{Welch}}(2, 36.17) = 25.26$, $p = 1.36\text{e-}07$, $\widehat{\omega}_p^2 = 0.55$, $\text{CI}_{95\%}$ [0.36, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 8.38\text{e-}05$

$p_{\text{Holm-adj.}} = 4.00\text{e-}07$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 5.86\text{e-}03$

Relative Abundance

0.020

0.015

0.010

0.005

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**
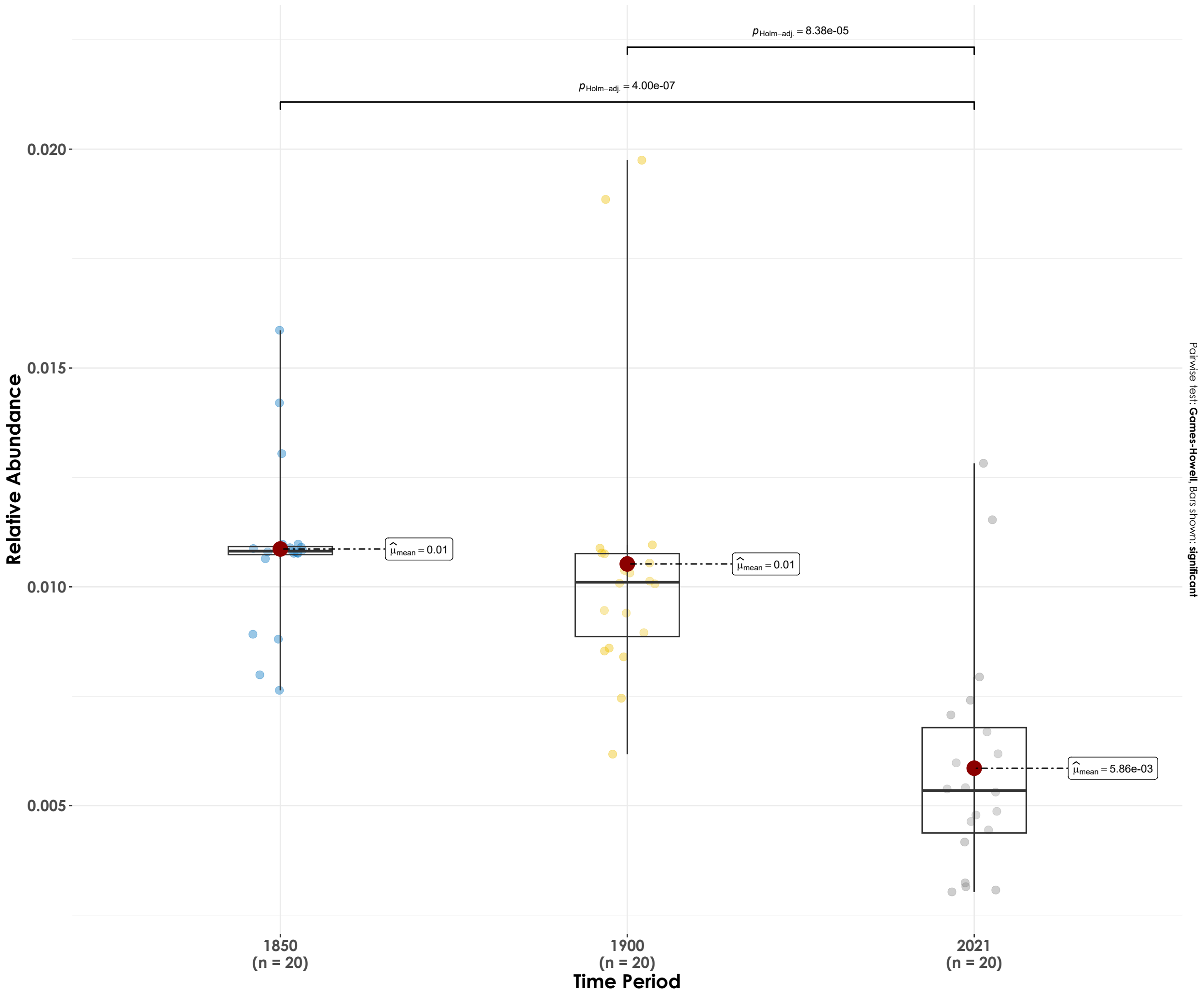
$\log_e(\text{BF}_{01}) = -12.34$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.41$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.24, 0.54], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Greater Racket-tailed Drongo

$F_{\text{Welch}}(2, 34.09) = 33.39$, $p = 9.32e\text{-}09$, $\widehat{\omega}_p^2 = 0.64$, $CI_{95\%}$ [0.46, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 3.33e\text{-}08$

$p_{\text{Holm-adj.}} = 2.98e\text{-}03$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.23e\text{-}03$

$\widehat{\mu}_{\text{mean}} = 5.12e\text{-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Relative Abundance (y-axis)

Time Period (x-axis)

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

$\log_e(BF_{01}) = -6.29$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.26$, $CI_{95\%}^{\text{HDI}}$ [0.10, 0.43], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
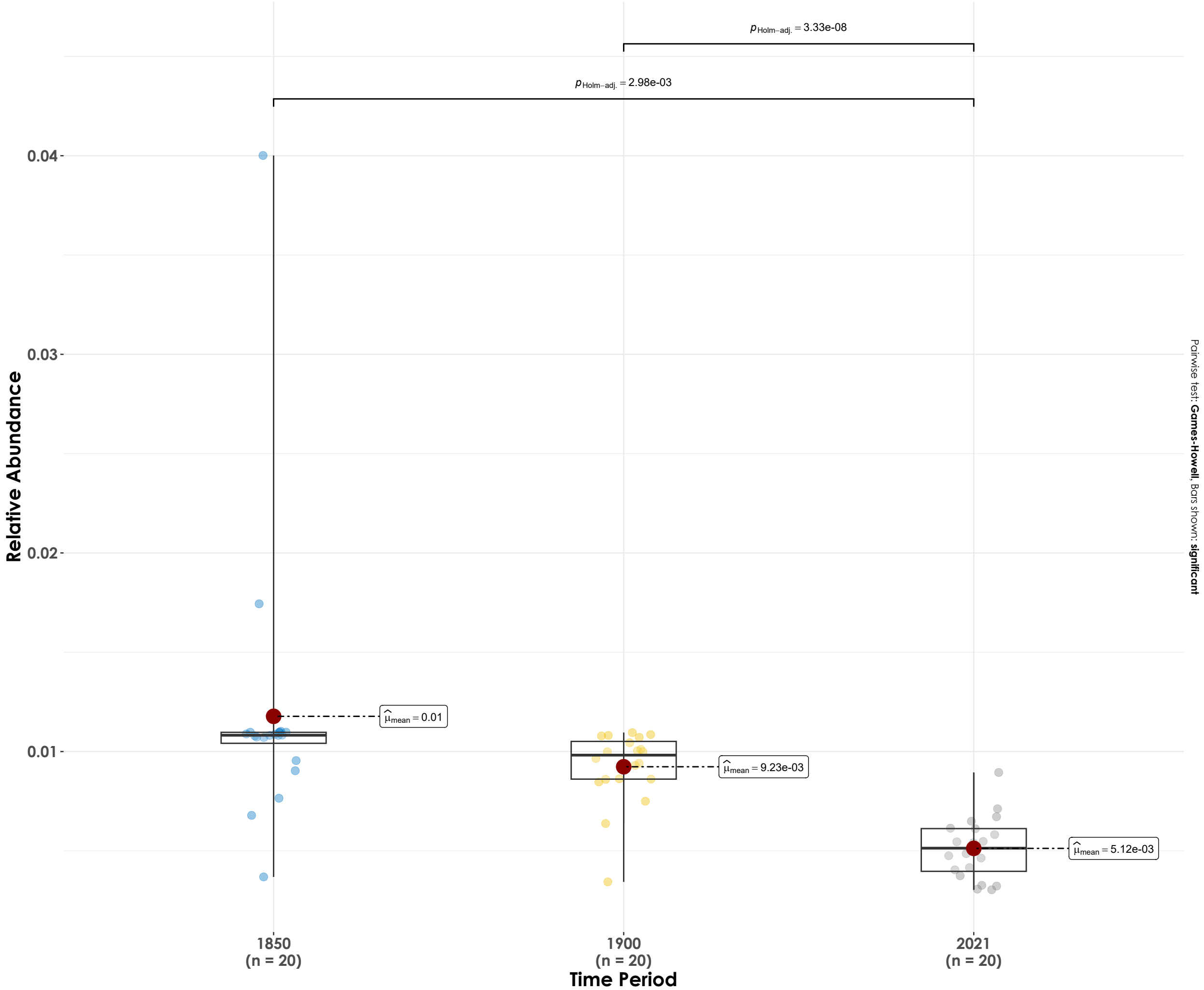
Greenish Warbler

$F_{\text{Welch}}(2, 34.26) = 25.65, p = 1.55\text{e-}07, \widehat{\omega^2_p} = 0.57, \text{CI}_{95\%} [0.37, 1.00], n_{\text{obs}} = 60$
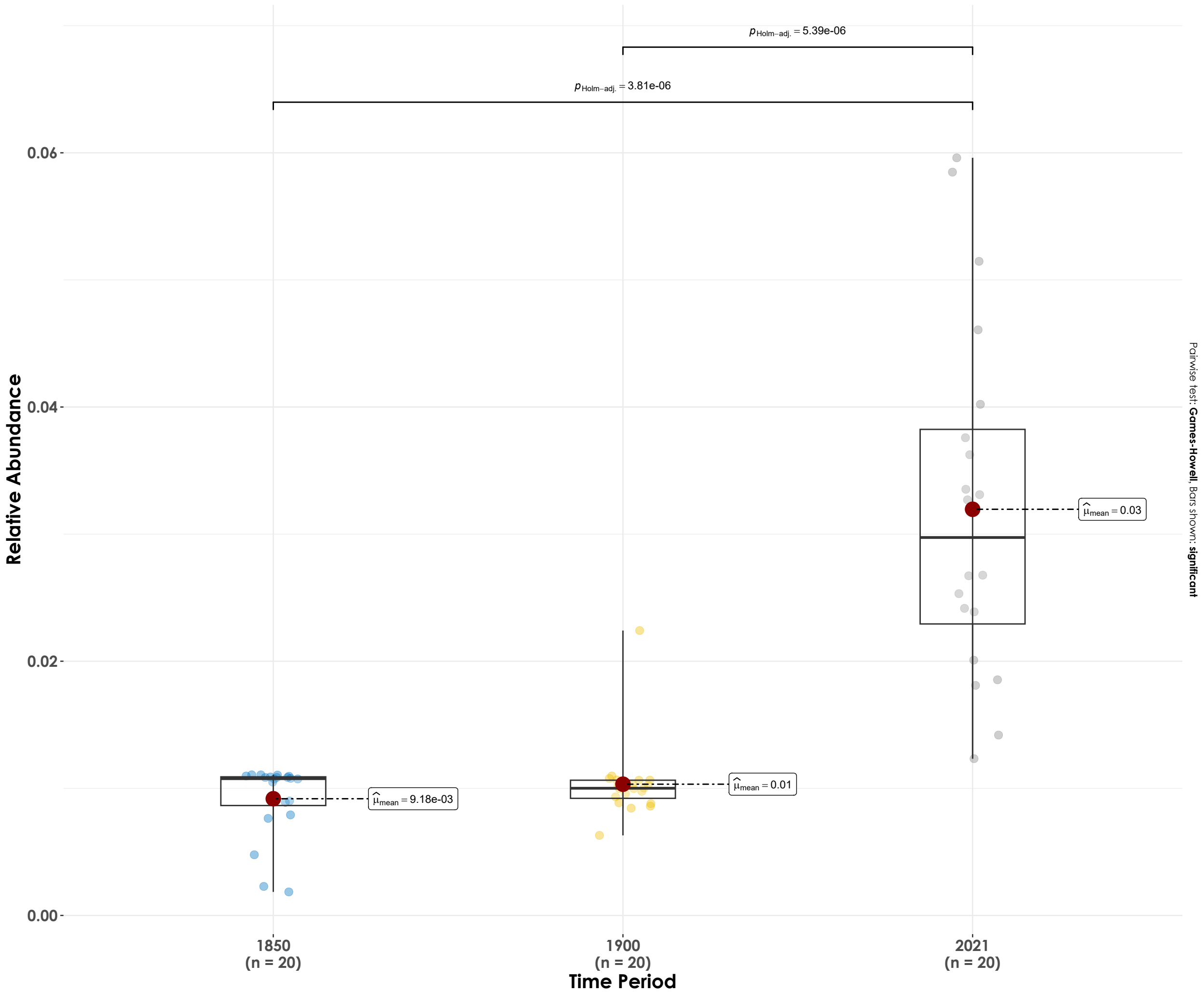
$\log_e(\text{BF}_{01}) = -23.17, \widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.61, \text{CI}^{\text{HDI}}_{95\%} [0.49, 0.70], r^{\text{JZS}}_{\text{Cauchy}} = 0.71$
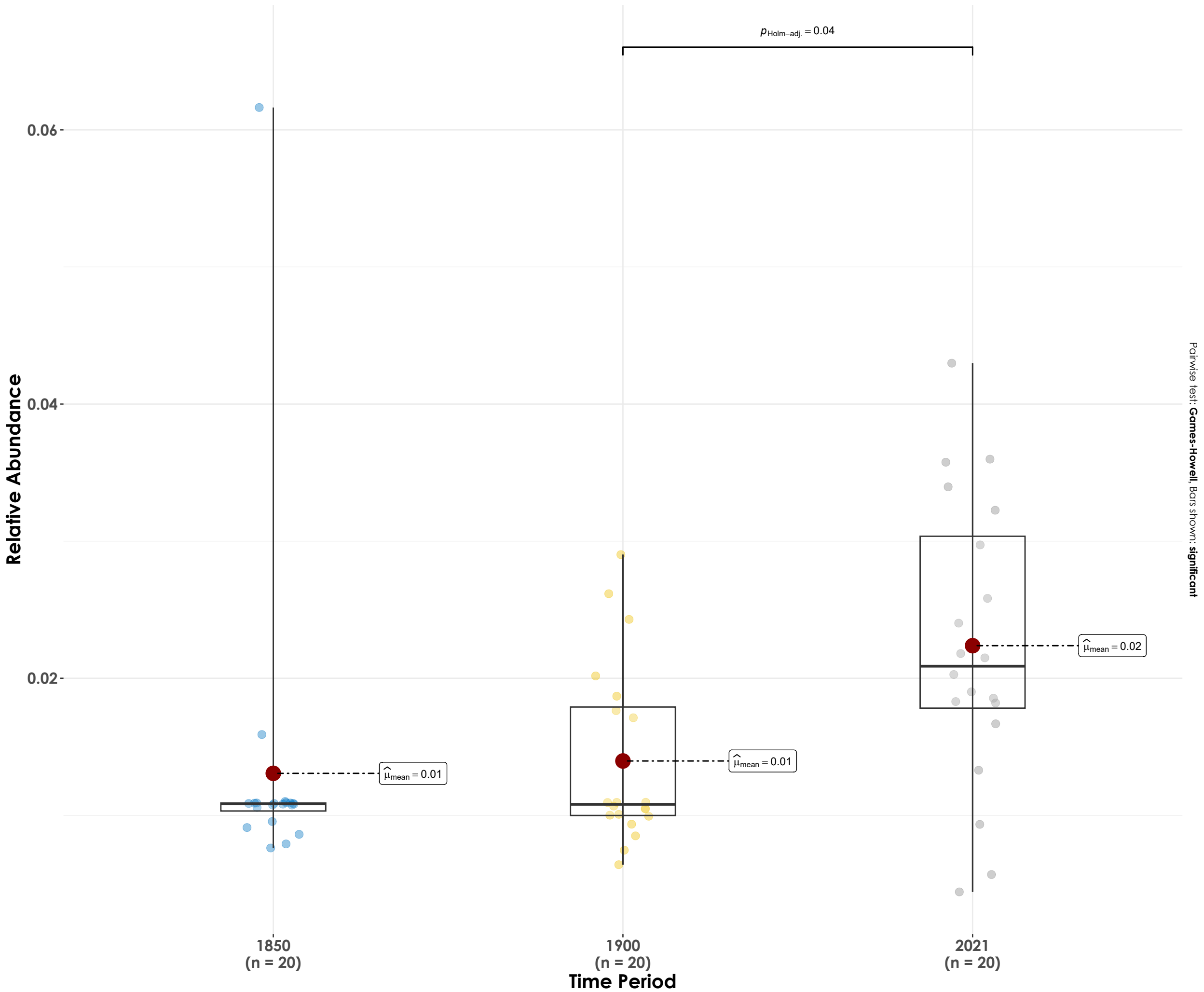
Indian Blackbird

$F_{\text{Welch}}(2, 35.58) = 5.26$, $p = 9.96\text{e-}03$, $\widehat{\omega_p^2} = 0.18$, $\text{CI}_{95\%}$ [0.01, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 0.04$

Relative Abundance

0.06

0.04

0.02

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.02$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = -1.85$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.12$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.27], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Indian Blue Robin

$F_{\text{Welch}}(2, 32.4) = 0.98$, $p = 0.39$, $\widehat{\omega}_p^2 = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance

0.020

0.015

0.010

0.005

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.63\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 0.01$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = 1.66$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.06], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
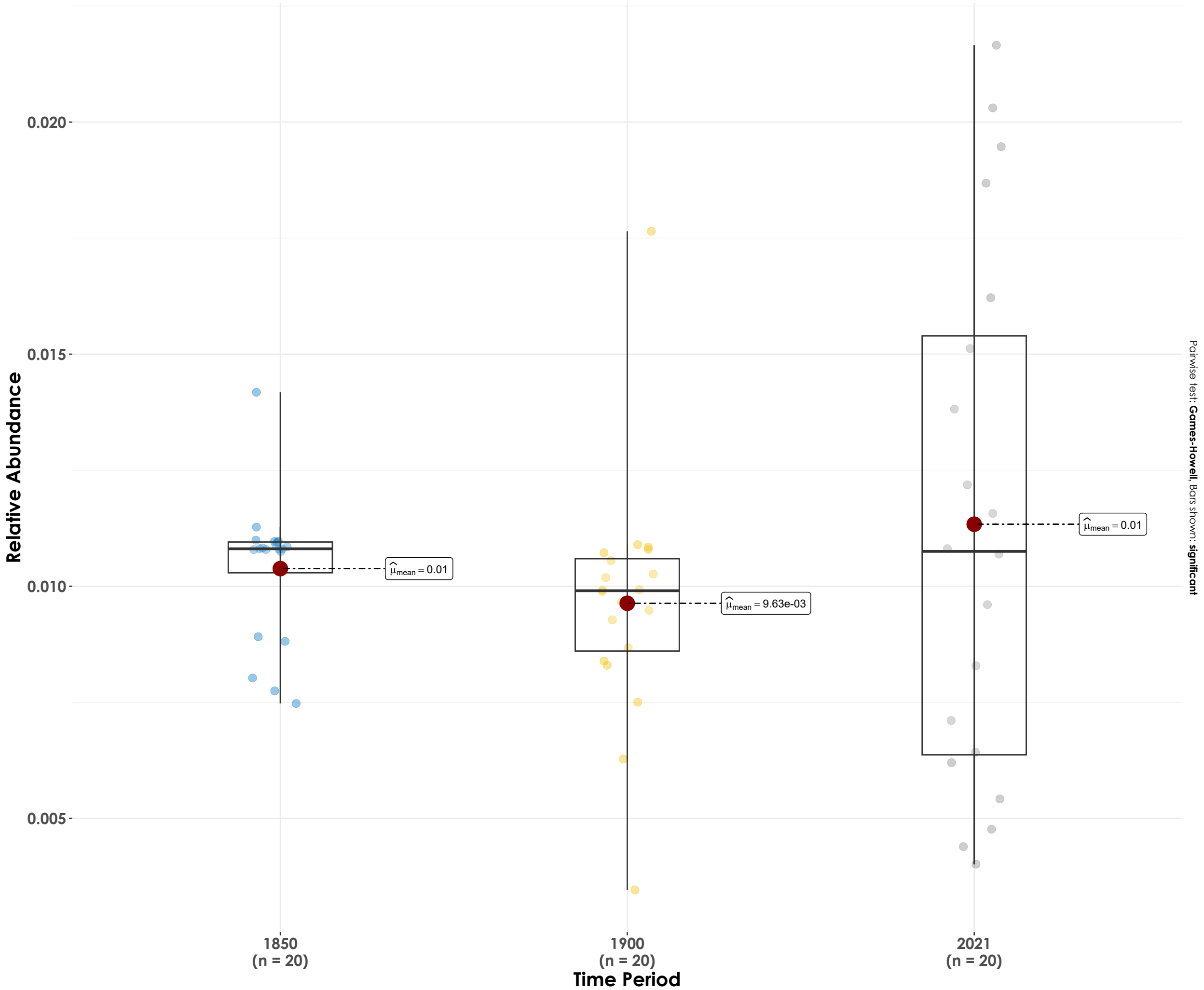
Indian Scimitar-Babbler

$F_{\text{Welch}}(2, 35.32) = 9.19, p = 6.12\text{e-}04, \widehat{\omega_p^2} = 0.30, \text{CI}_{95\%} [0.09, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 1.81\text{e-}03$

$p_{\text{Holm-adj.}} = 5.56\text{e-}03$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.02$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

Pairwise test: **Games-Howell**, Bars shown: **significant**

| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period
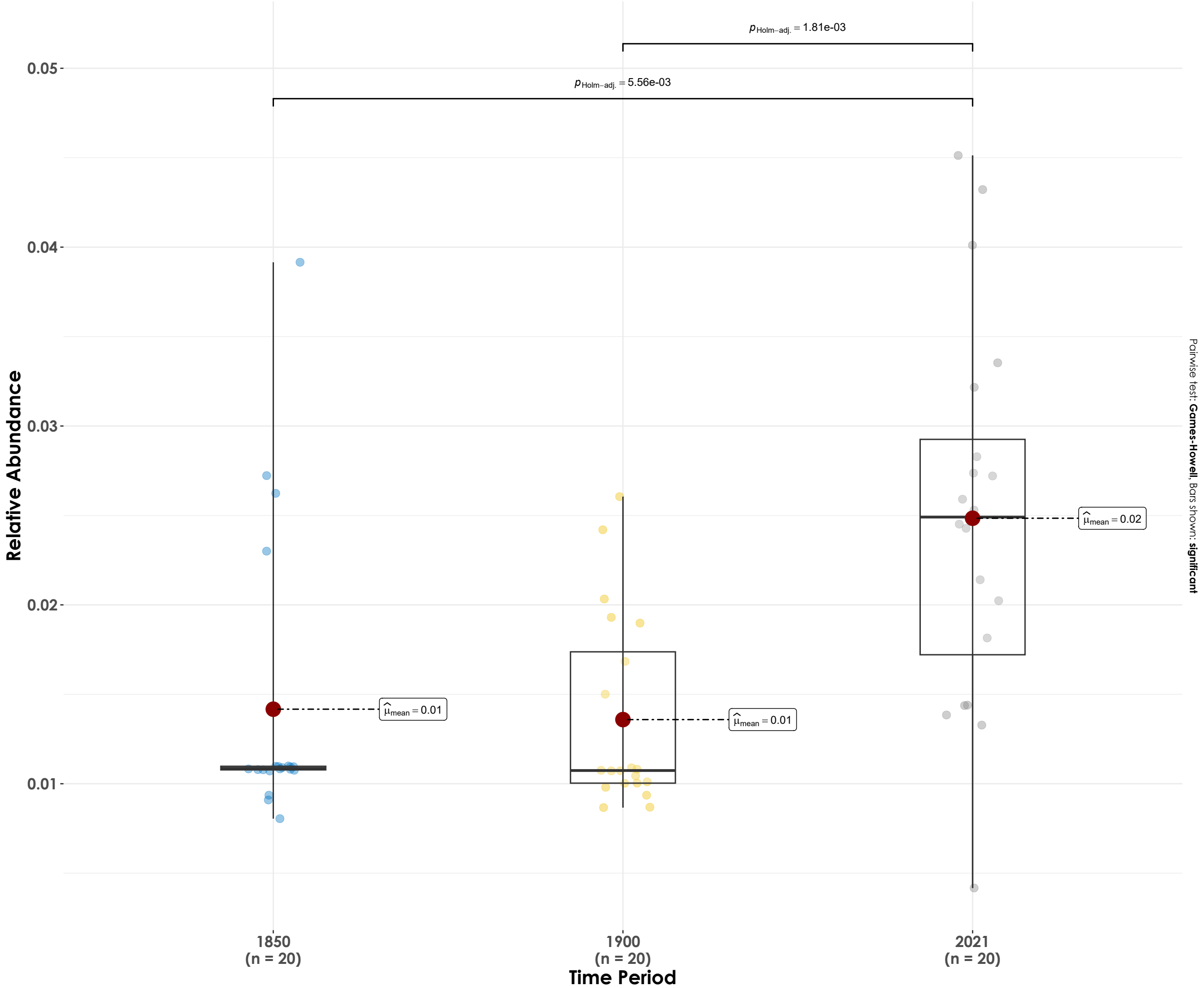
$\log_e(\text{BF}_{01}) = -6.09, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.26, \text{CI}_{95\%}^{\text{HDI}} [0.09, 0.42], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Indian Yellow Tit

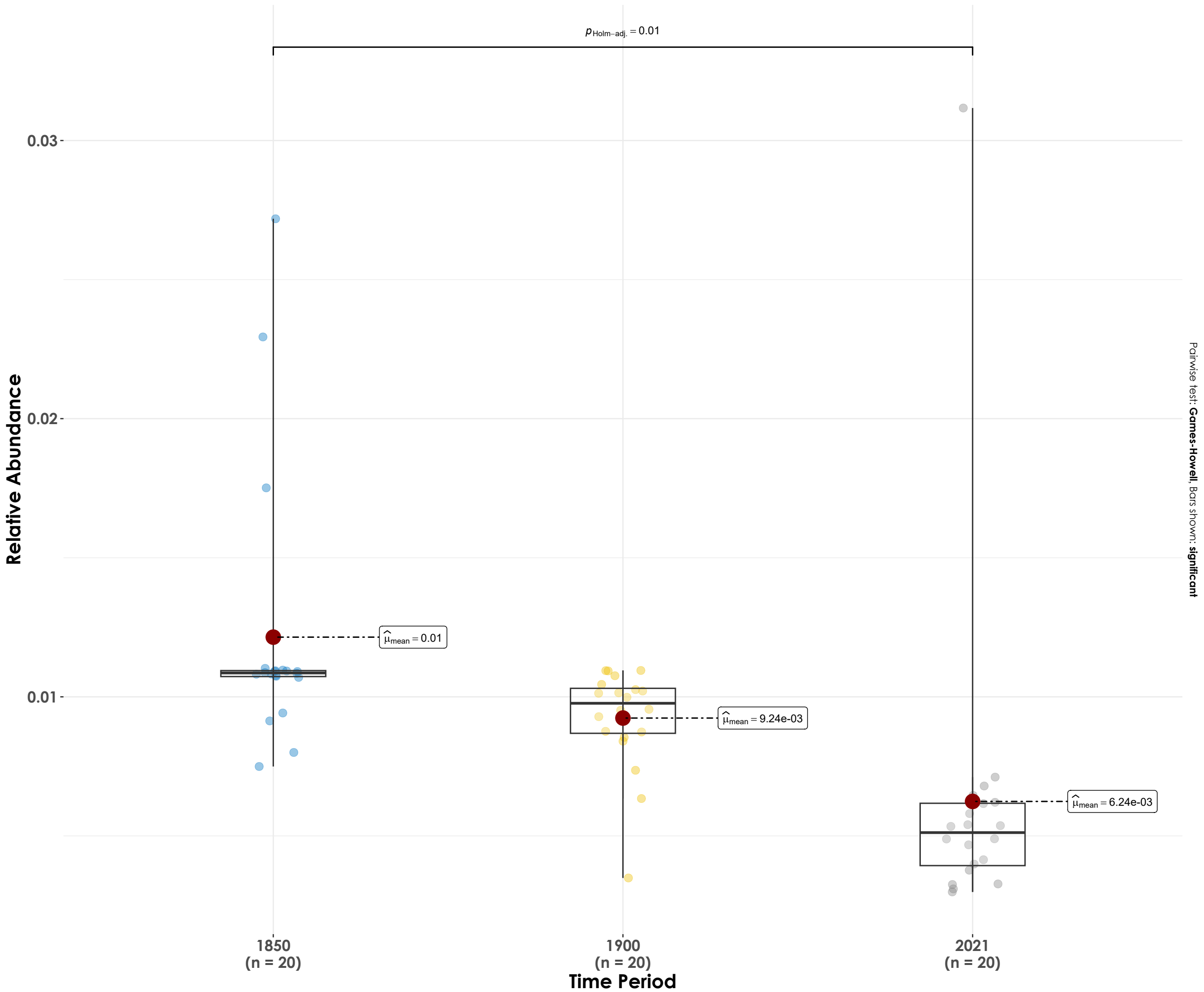$F_{\text{Welch}}(2, 30.24) = 5.91$, $p = 6.84\text{e-}03$, $\widehat{\omega_p^2} = 0.23$, $\text{CI}_{95\%}$ [0.02, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.24\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 6.24\text{e-}03$

Relative Abundance (y-axis)

0.03
0.02
0.01

Time Period (x-axis)

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = -3.82$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.19$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.33], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Large Hawk-Cuckoo

$F_{\text{Welch}}(2, 36.13) = 66.90$, $p = 7.13\text{e-}13$, $\widehat{\omega}_p^2 = 0.77$, $\text{CI}_{95\%}$ [0.65, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 2.71\text{e-}12$

$p_{\text{Holm-adj.}} = 2.51\text{e-}07$

$\widehat{\mu}_{\text{mean}} = 9.51\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.42\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.89\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Relative Abundance

Time Period

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)
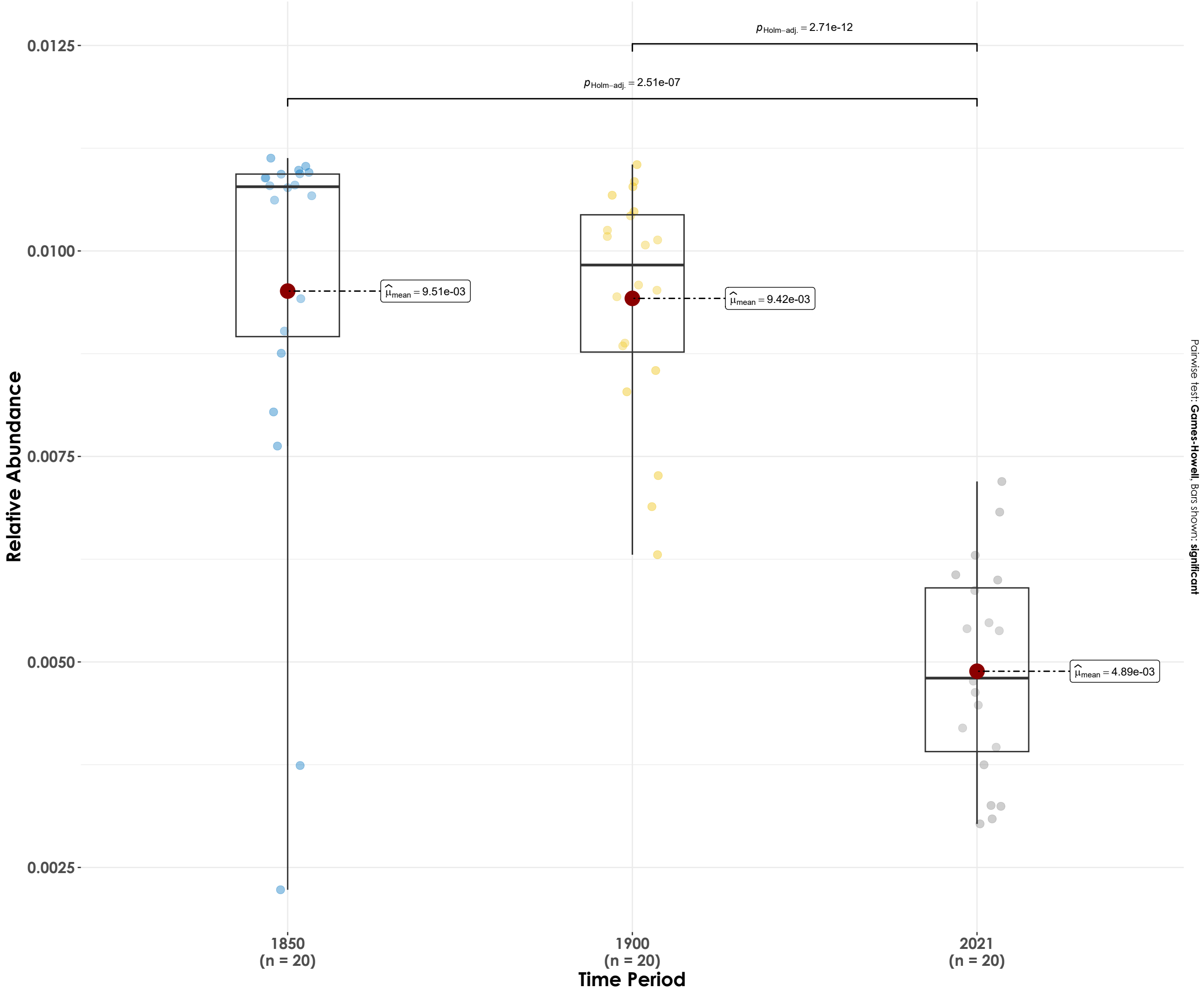
$\log_e(\text{BF}_{01}) = -21.64$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.59$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.46, 0.68], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Lesser Yellownape

$F_{\text{Welch}}(2, 31.2) = 30.51$, $p = 4.55\text{e-}08$, $\widehat{\omega_p^2} = 0.63$, $\text{CI}_{95\%}$ [0.44, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 3.78\text{e-}05$

$p_{\text{Holm-adj.}} = 2.03\text{e-}05$

Relative Abundance

0.03

0.02

0.01

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.15\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.87\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -10.40$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.37$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.20, 0.51], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Malabar Barbet

$F_{\text{Welch}}(2, 29.09) = 1.99$, $p = 0.15$, $\widehat{\omega^2_p} = 0.06$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Relative Abundance (y-axis)

Time Period (x-axis): 1850 (n = 20), 1900 (n = 20), 2021 (n = 20)

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.24\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 7.09\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**
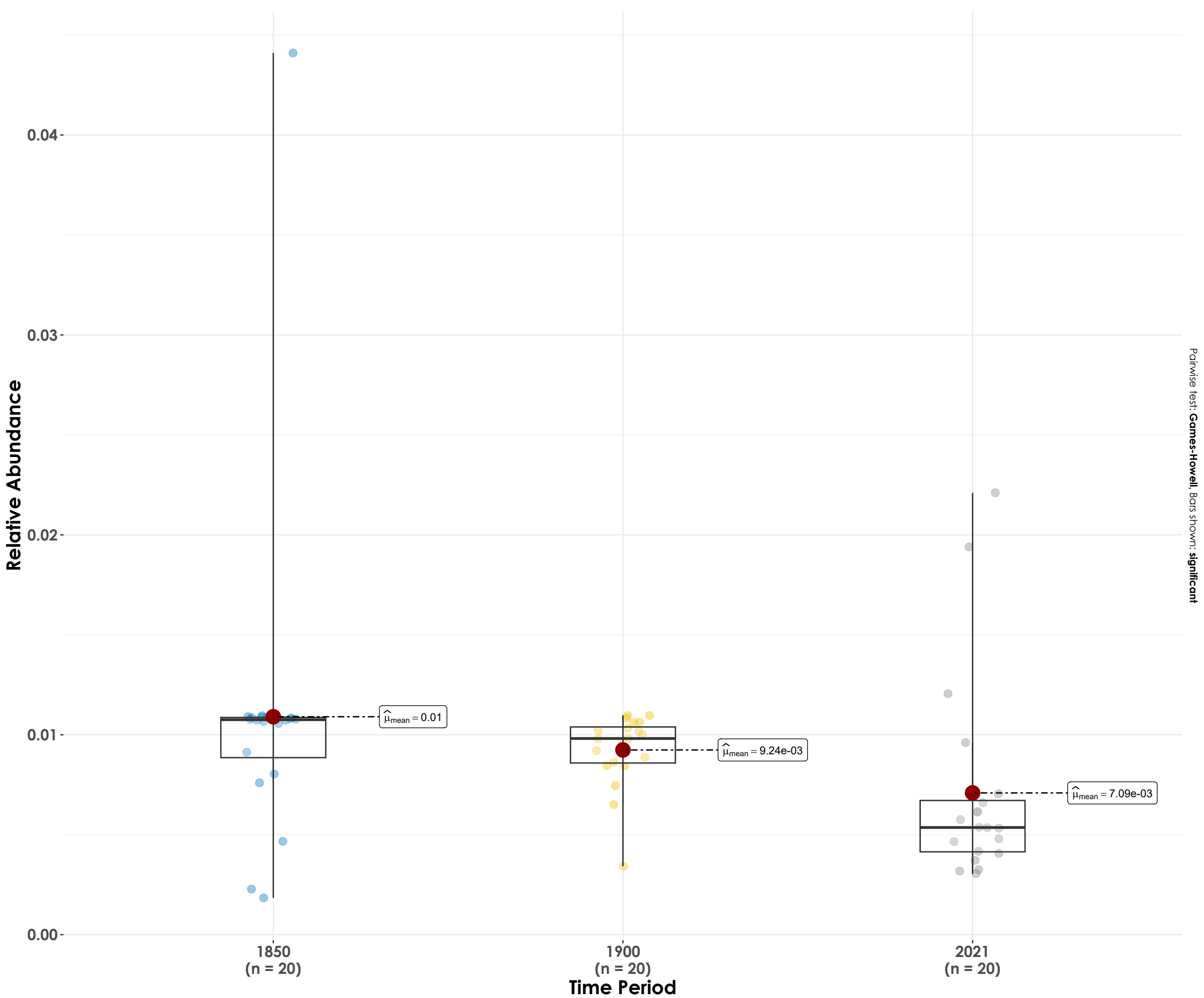
$\log_e(\text{BF}_{01}) = 0.73$, $\widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.00$, $\text{CI}^{\text{HDI}}_{95\%}$ [0.00, 0.13], $r^{\text{JZS}}_{\text{Cauchy}} = 0.71$

Malabar Parakeet

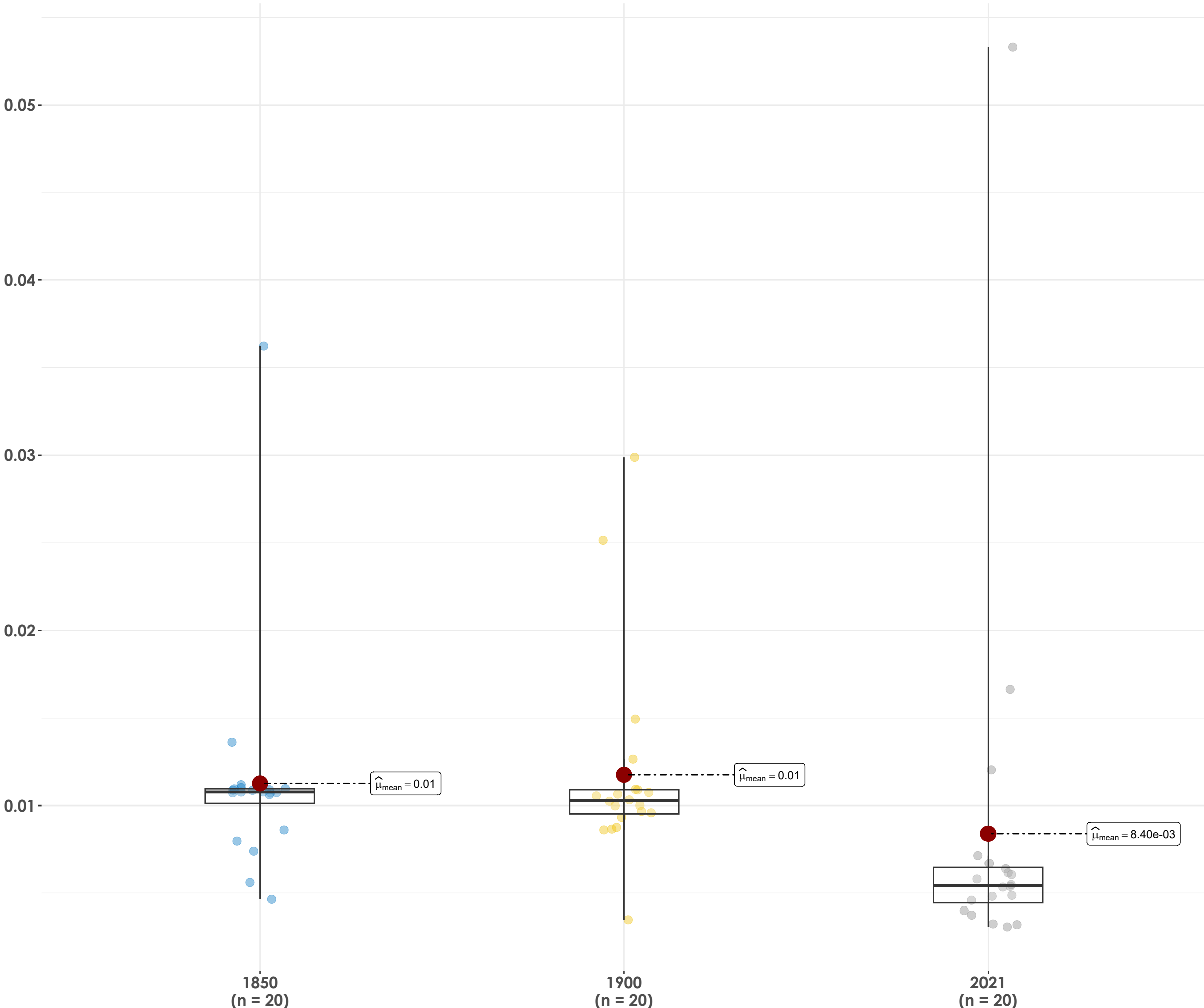$F_{\text{Welch}}(2, 36.26) = 0.72, p = 0.49, \widehat{\omega_p^2} = 0.00, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 8.40\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Time Period

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

$\log_e(\text{BF}_{01}) = 1.70, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.06], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Malabar Trogon

$F_{\text{Welch}}(2, 32.23) = 49.73, p = 1.41\text{e-}10, \widehat{\omega}_p^2 = 0.73, \text{CI}_{95\%} [0.59, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 5.52\text{e-}06$

$p_{\text{Holm-adj.}} = 2.50\text{e-}08$

Relative Abundance

0.020

0.015

0.010

0.005

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 4.89\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -15.34, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.47, \text{CI}_{95\%}^{\text{HDI}} [0.32, 0.60], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Malabar Whistling-Thrush

$F_{\text{Welch}}(2, 34.68) = 2.12, p = 0.14, \widehat{\omega_p^2} = 0.06, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$
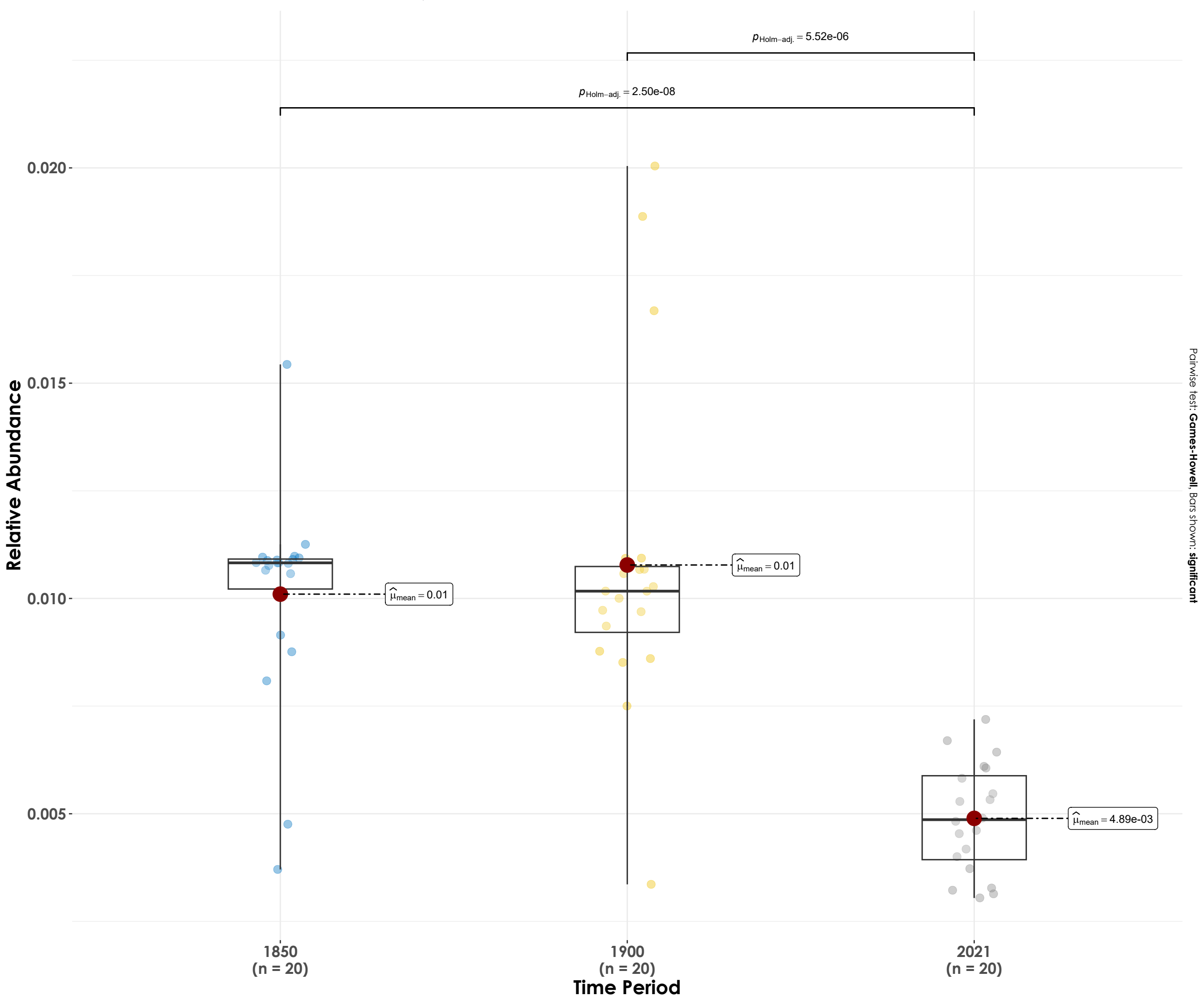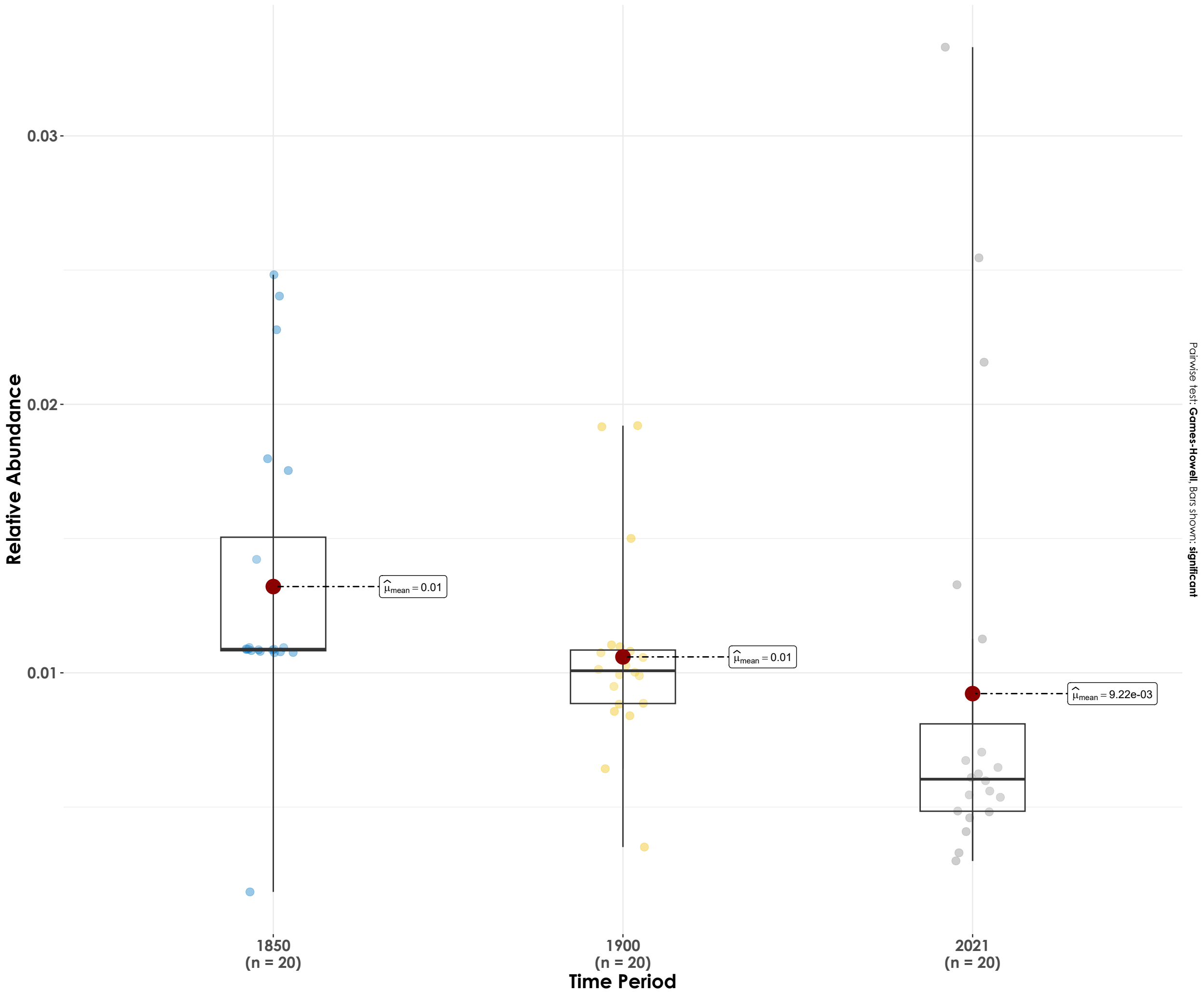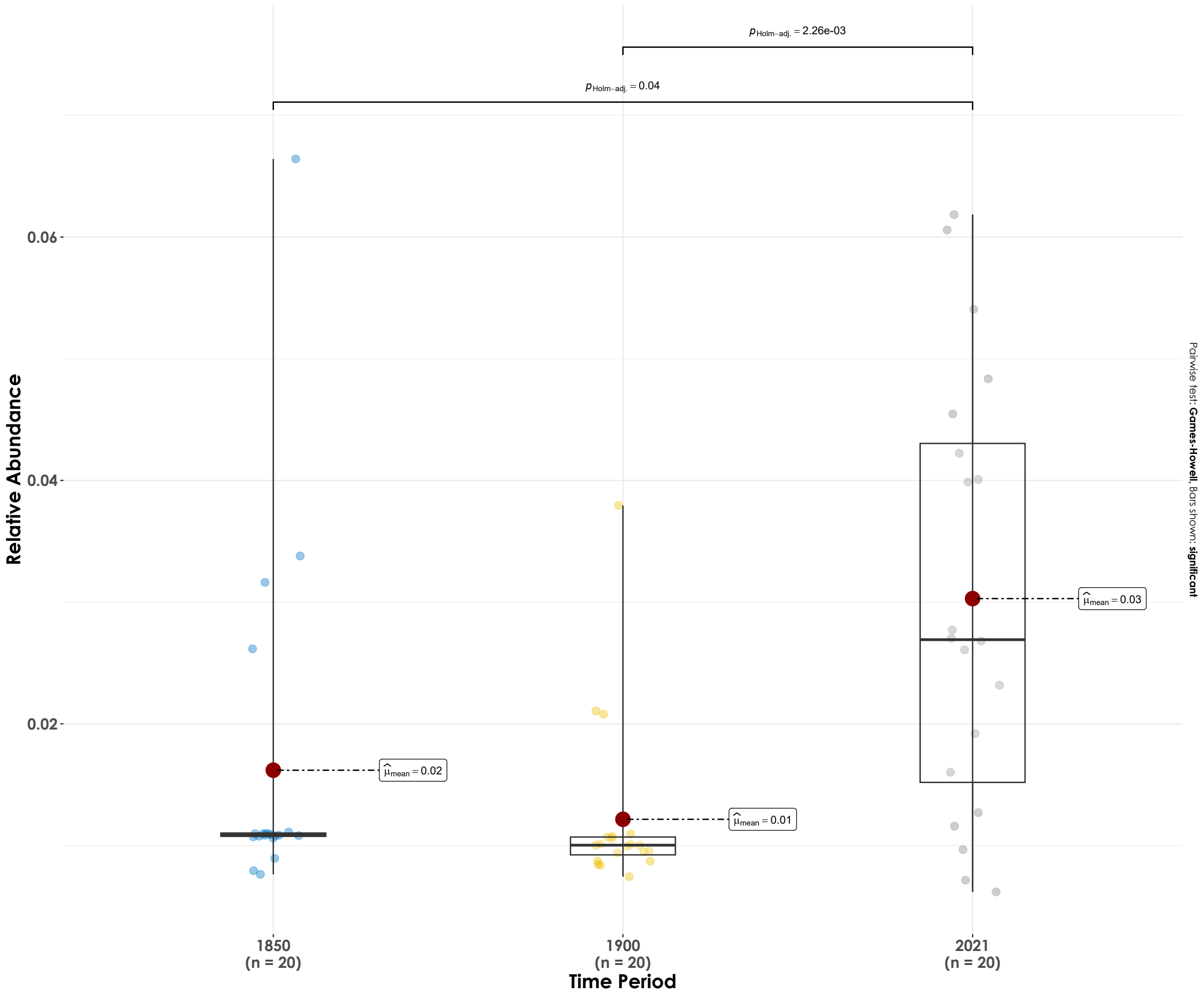
Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.22\text{e-}03$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = 0.72, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.13], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Nilgiri Flowerpecker

$F_{\text{Welch}}(2, 32.75) = 8.93$, $p = 8.03\text{e-}04$, $\widehat{\omega^2_p} = 0.31$, $\text{CI}_{95\%}$ [0.09, 1.00], $n_{\text{obs}} = 60$
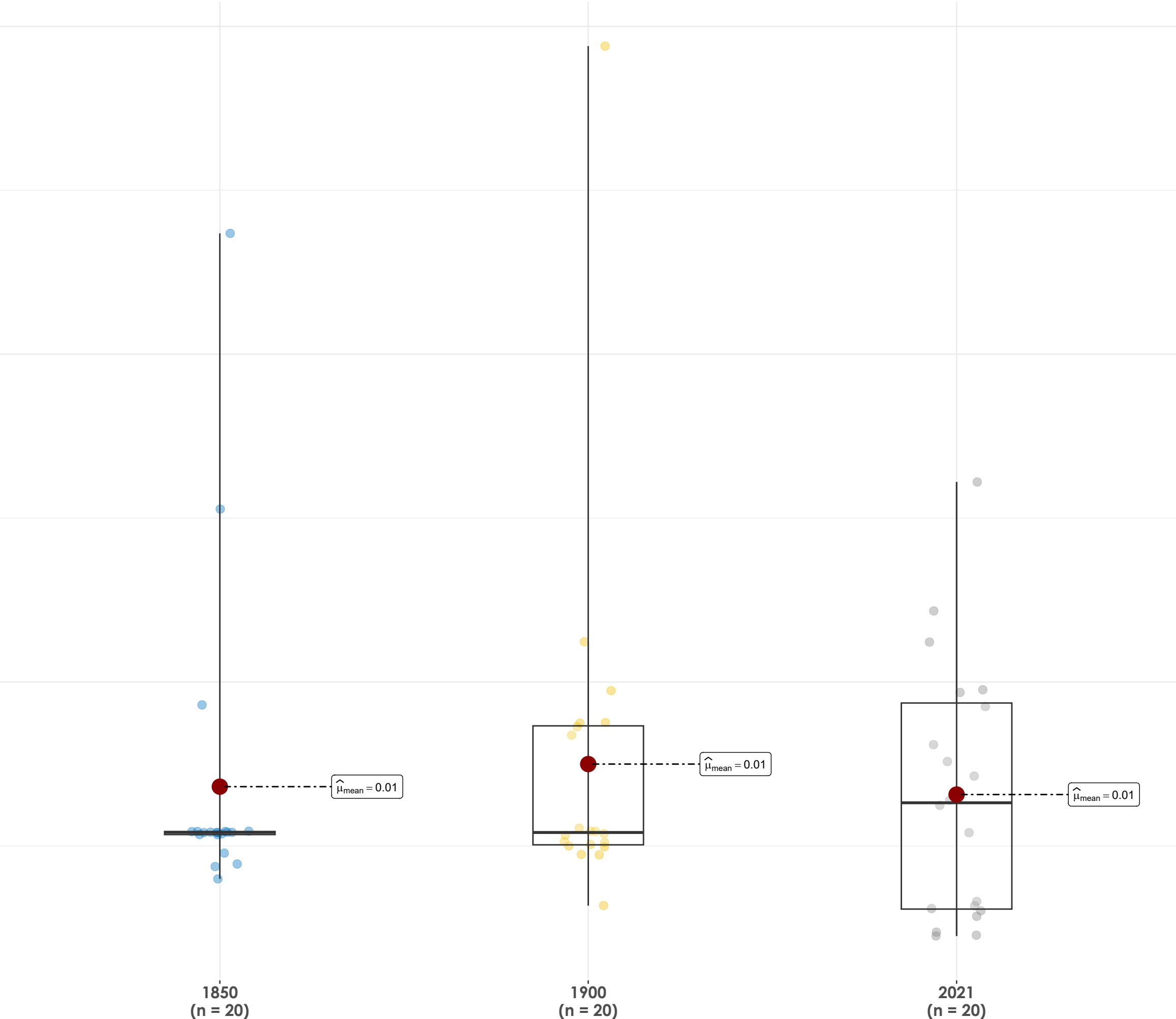
$p_{\text{Holm-adj.}} = 2.26\text{e-}03$

$p_{\text{Holm-adj.}} = 0.04$

Relative Abundance

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\widehat{\mu}_{\text{mean}} = 0.03$

$\widehat{\mu}_{\text{mean}} = 0.02$

$\widehat{\mu}_{\text{mean}} = 0.01$

1850	1900	2021
(n = 20)	(n = 20)	(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -4.76$, $\widehat{R^2}^{\text{posterior}}_{\text{Bayesian}} = 0.22$, $\text{CI}^{\text{HDI}}_{95\%}$ [0.06, 0.38], $r^{\text{JZS}}_{\text{Cauchy}} = 0.71$

Nilgiri Flycatcher

$F_{\text{Welch}}(2, 37.26) = 0.18, p = 0.83, \widehat{\omega_p^2} = 0.00, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

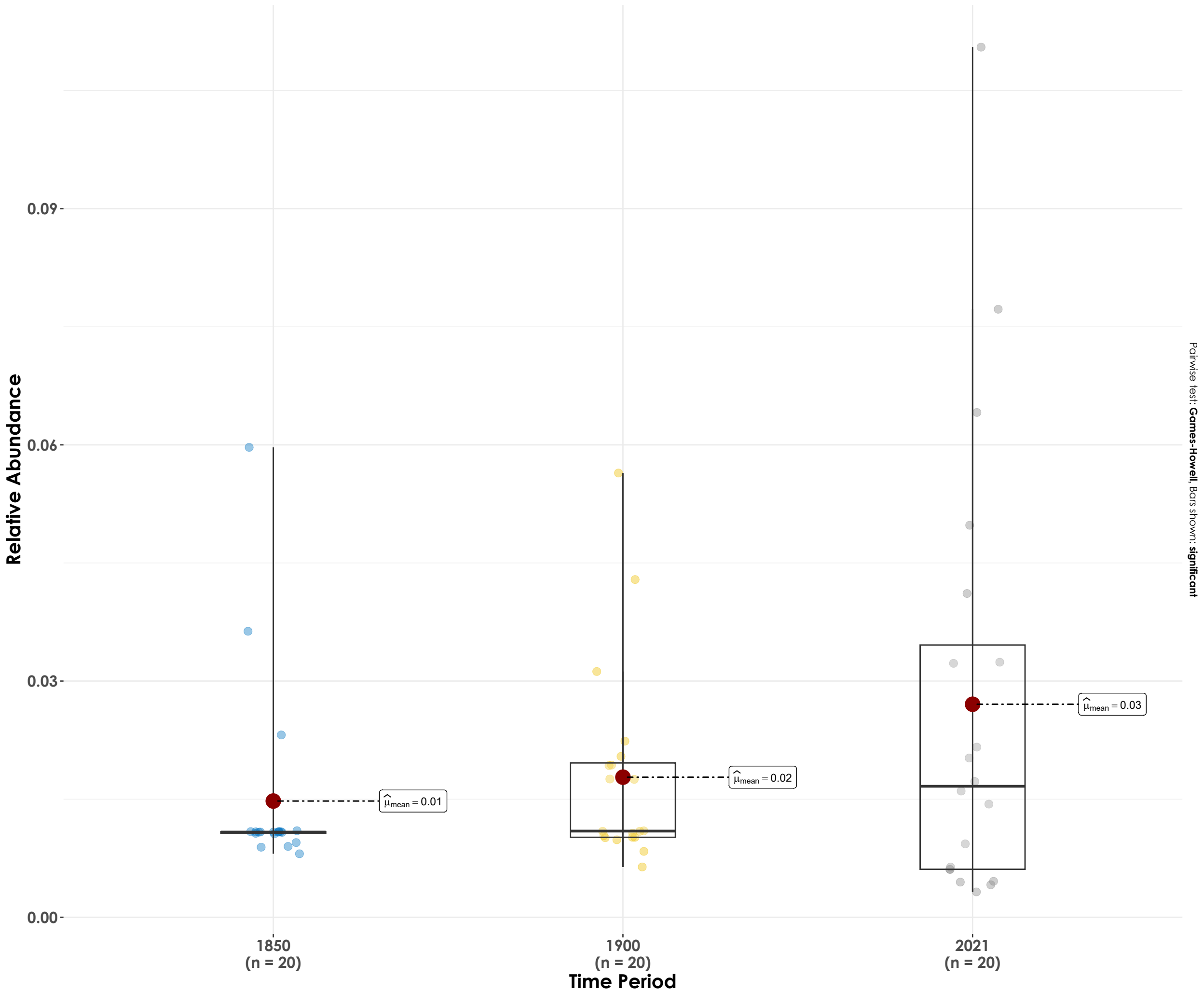$\log_e(\text{BF}_{01}) = 2.36, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.02], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Nilgiri Laughingthrush

$F_{\text{Welch}}(2, 35.54) = 1.55$, $p = 0.23$, $\widehat{\omega_p^2} = 0.03$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = 0.77$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.13], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Nilgiri Sholakili

$F_{\text{Welch}}(2, 37.08) = 0.17$, $p = 0.84$, $\widehat{\omega}_p^2 = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

Pairwise test: **Games-Howell**, Bars shown: **significant**
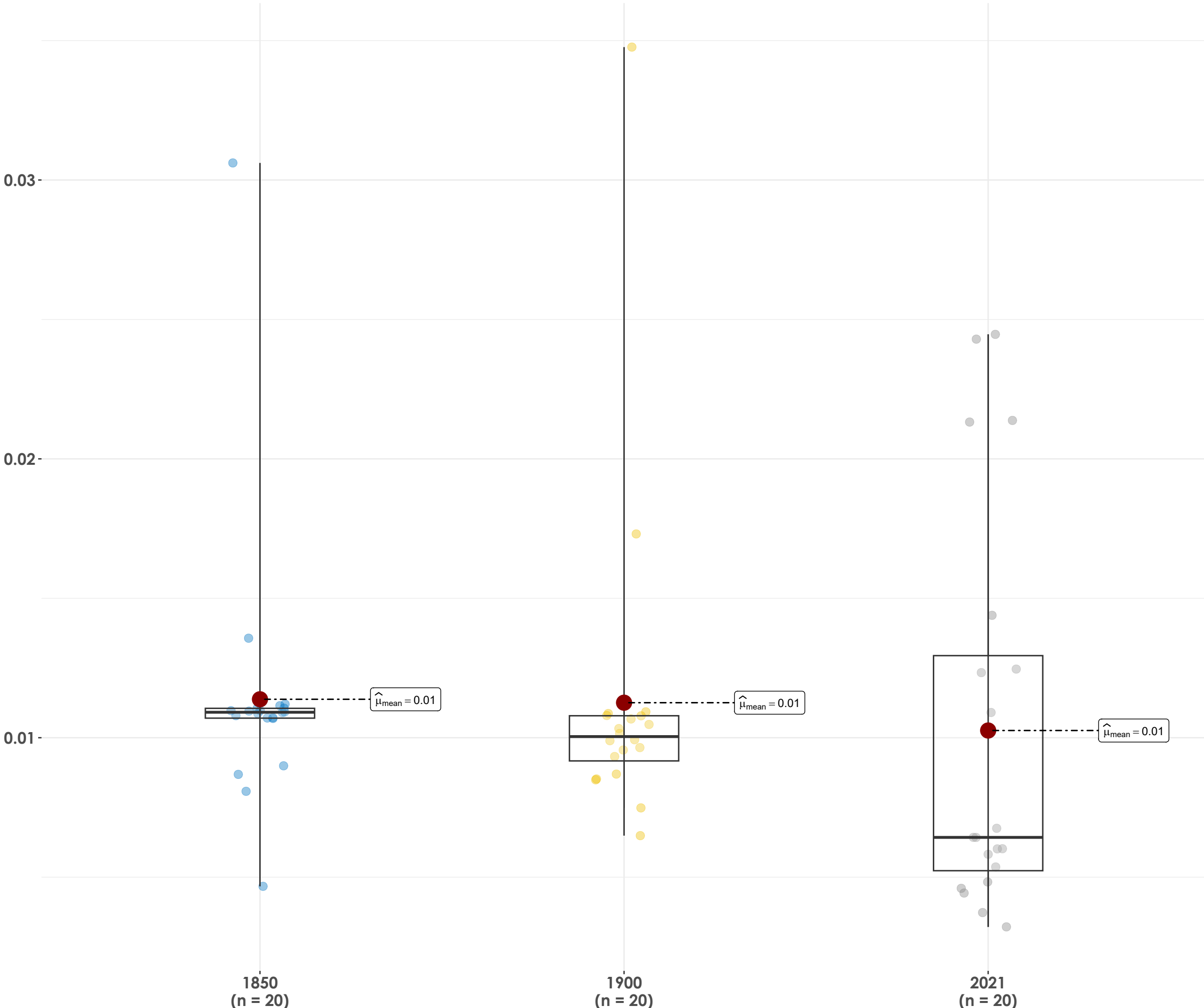
$\log_e(\text{BF}_{01}) = 2.36$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.02], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Nilgiri Thrush

$F_{\text{Welch}}(2, 33.05) = 20.21, p = 1.85\text{e-}06, \widehat{\omega}_p^2 = 0.52, \text{CI}_{95\%}\ [0.30, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 3.22\text{e-}05$

$p_{\text{Holm-adj.}} = 1.17\text{e-}05$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 5.75\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period

$\log_e(\text{BF}_{01}) = -12.69, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.42, \text{CI}_{95\%}^{\text{HDI}}\ [0.25, 0.55], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Nilgiri Wood-Pigeon

$F_{\text{Welch}}(2, 32.31) = 0.12$, $p = 0.89$, $\widehat{\omega}_p^2 = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$
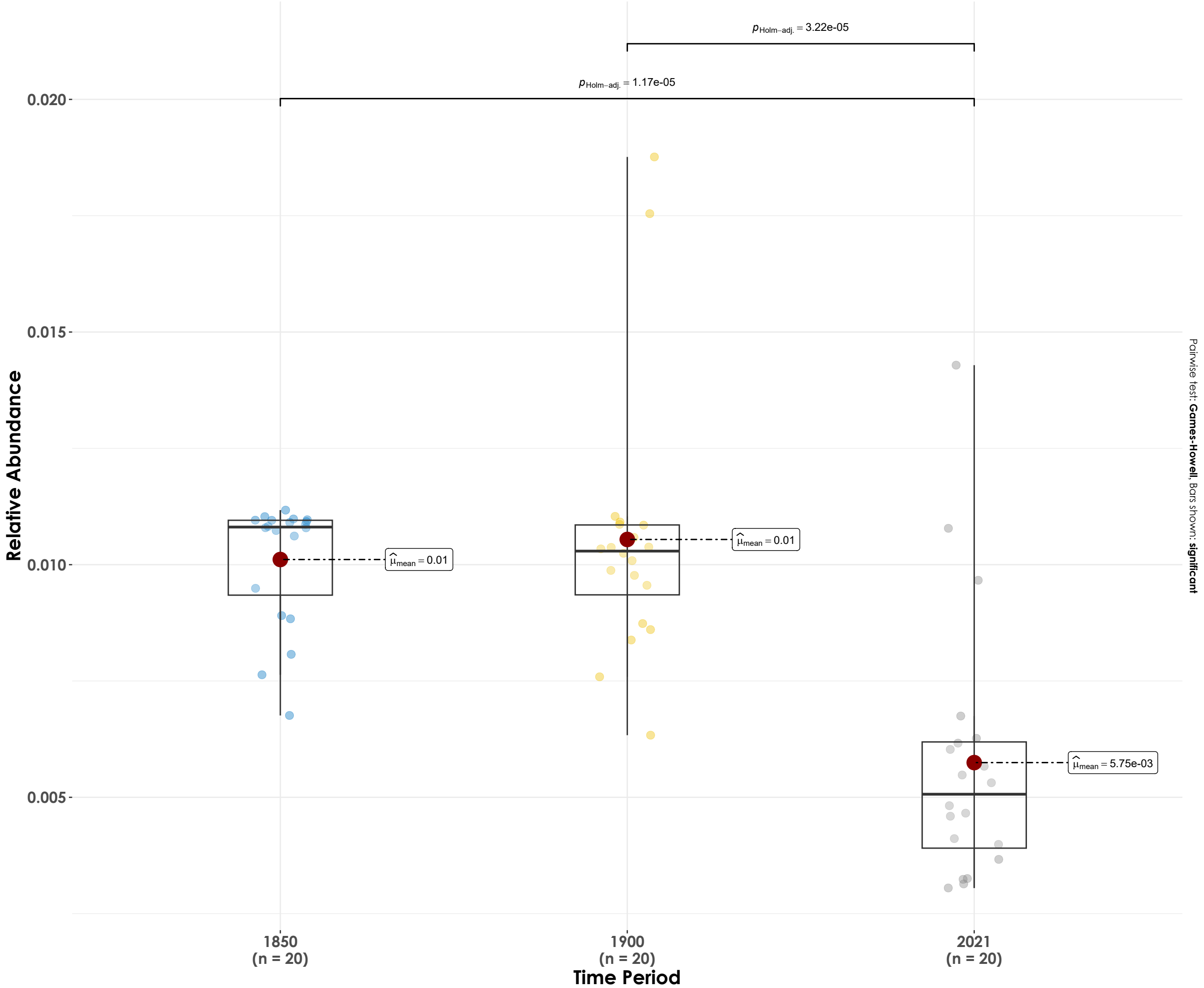
Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period
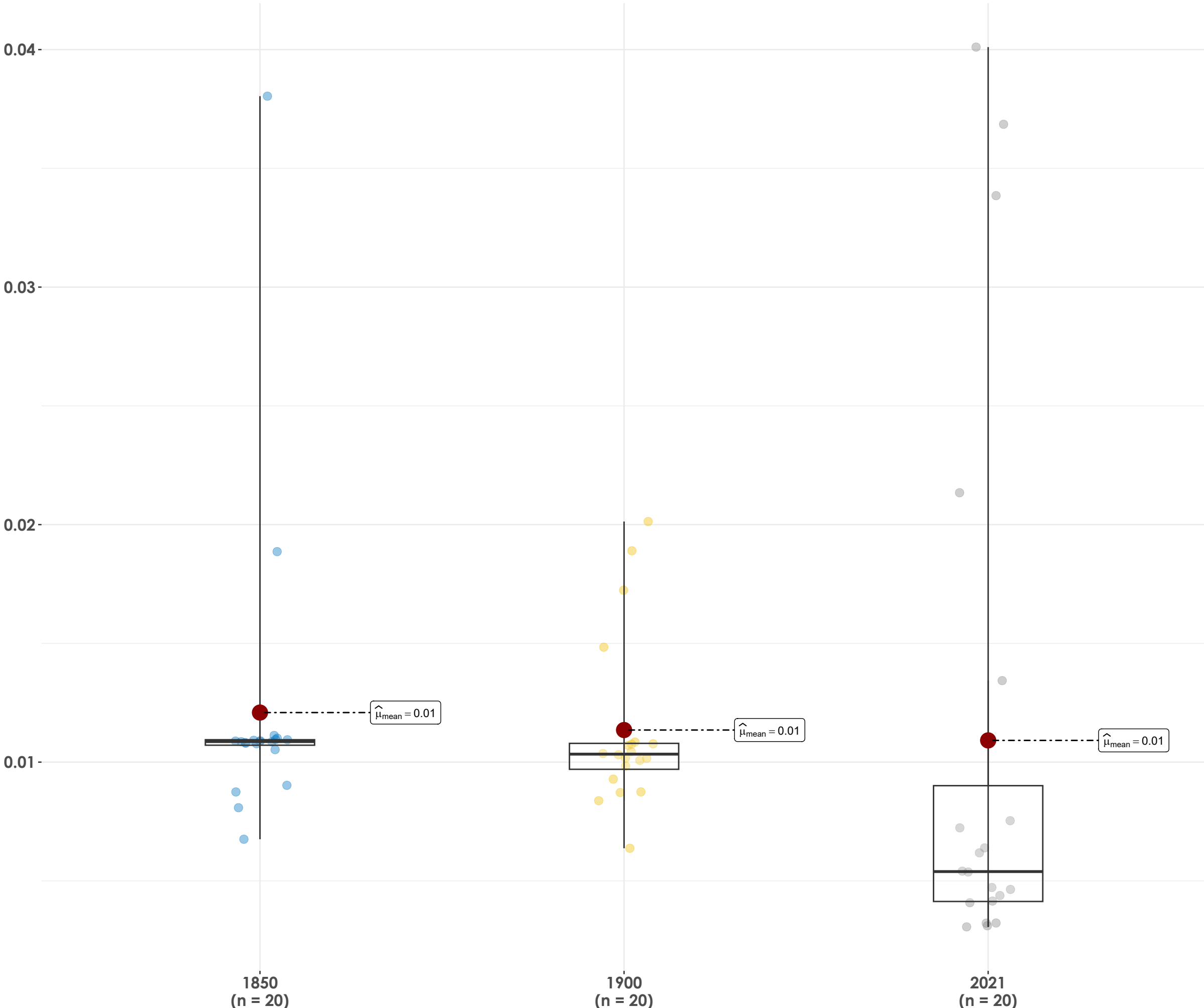
$\log_e(\text{BF}_{01}) = 2.45$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.01], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Orange Minivet

$F_{\text{Welch}}(2, 37.46) = 3.35, p = 0.05, \widehat{\omega_p^2} = 0.10, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

Relative Abundance

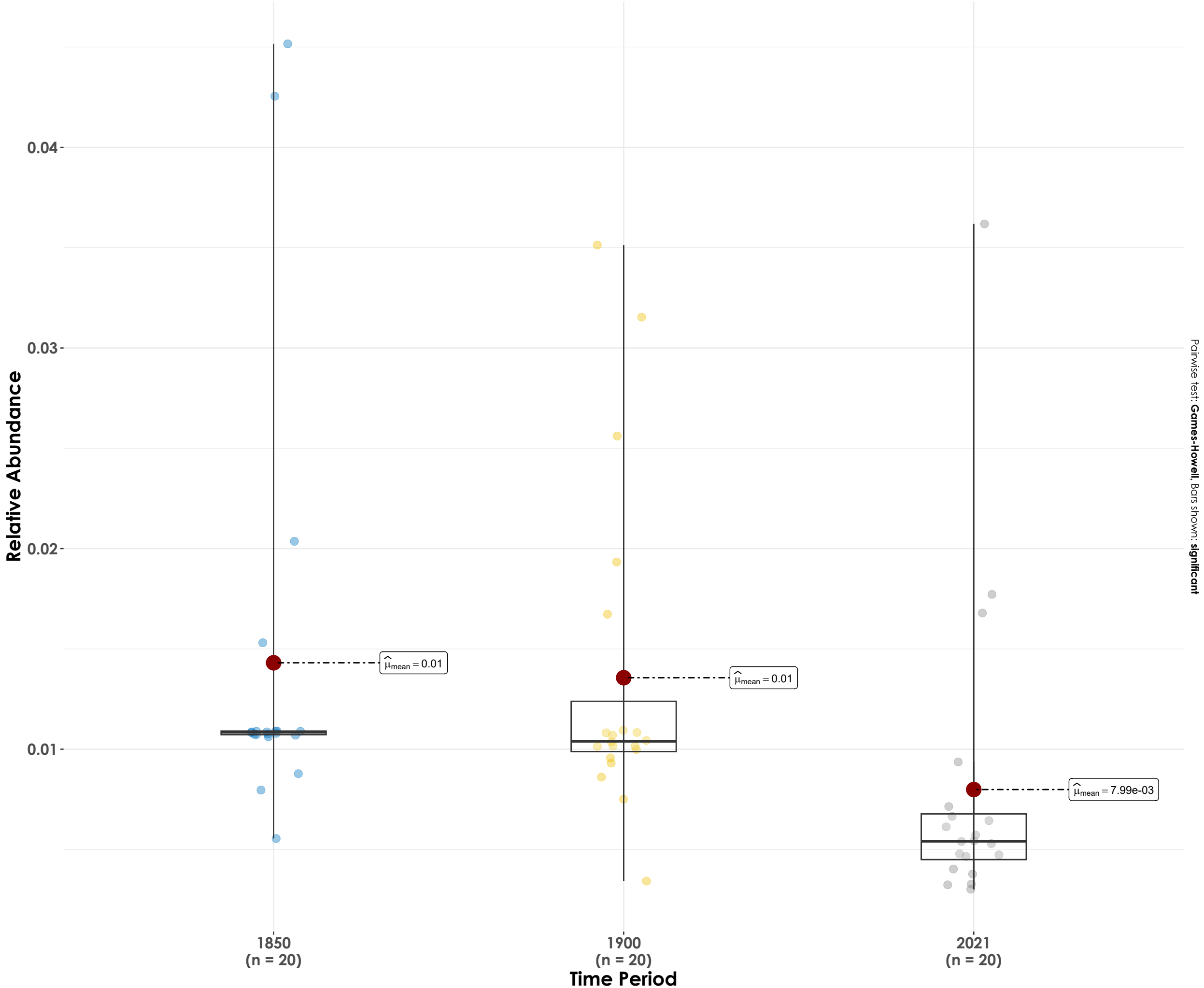0.04

0.03

0.02

0.01

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 7.99\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = 0.09, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.17], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Painted Spurfowl

$F_{\text{Welch}}(2, 34.85) = 51.32, p = 4.11\text{e-}11, \widehat{\omega}_p^2 = 0.73, \text{CI}_{95\%} [0.58, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 2.67\text{e-}09$

$p_{\text{Holm-adj.}} = 9.02\text{e-}07$

$\widehat{\mu}_{\text{mean}} = 9.99\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.21\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.89\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Relative Abundance

Time Period

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)
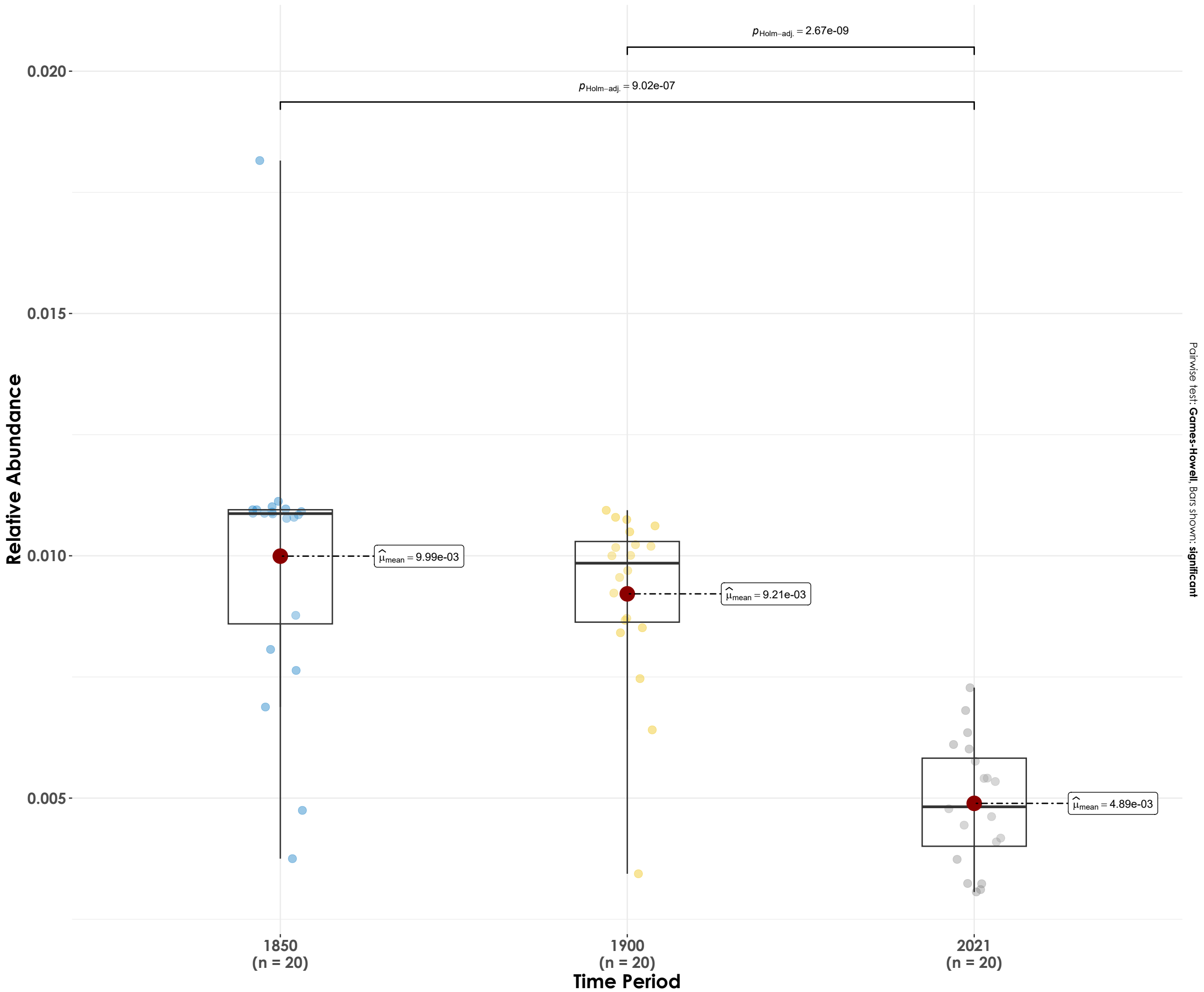
$\log_e(\text{BF}_{01}) = -17.61, \widehat{R}^2{}^{\text{posterior}}_{\text{Bayesian}} = 0.52, \text{CI}^{\text{HDI}}_{95\%} [0.38, 0.64], r^{\text{JZS}}_{\text{Cauchy}} = 0.71$
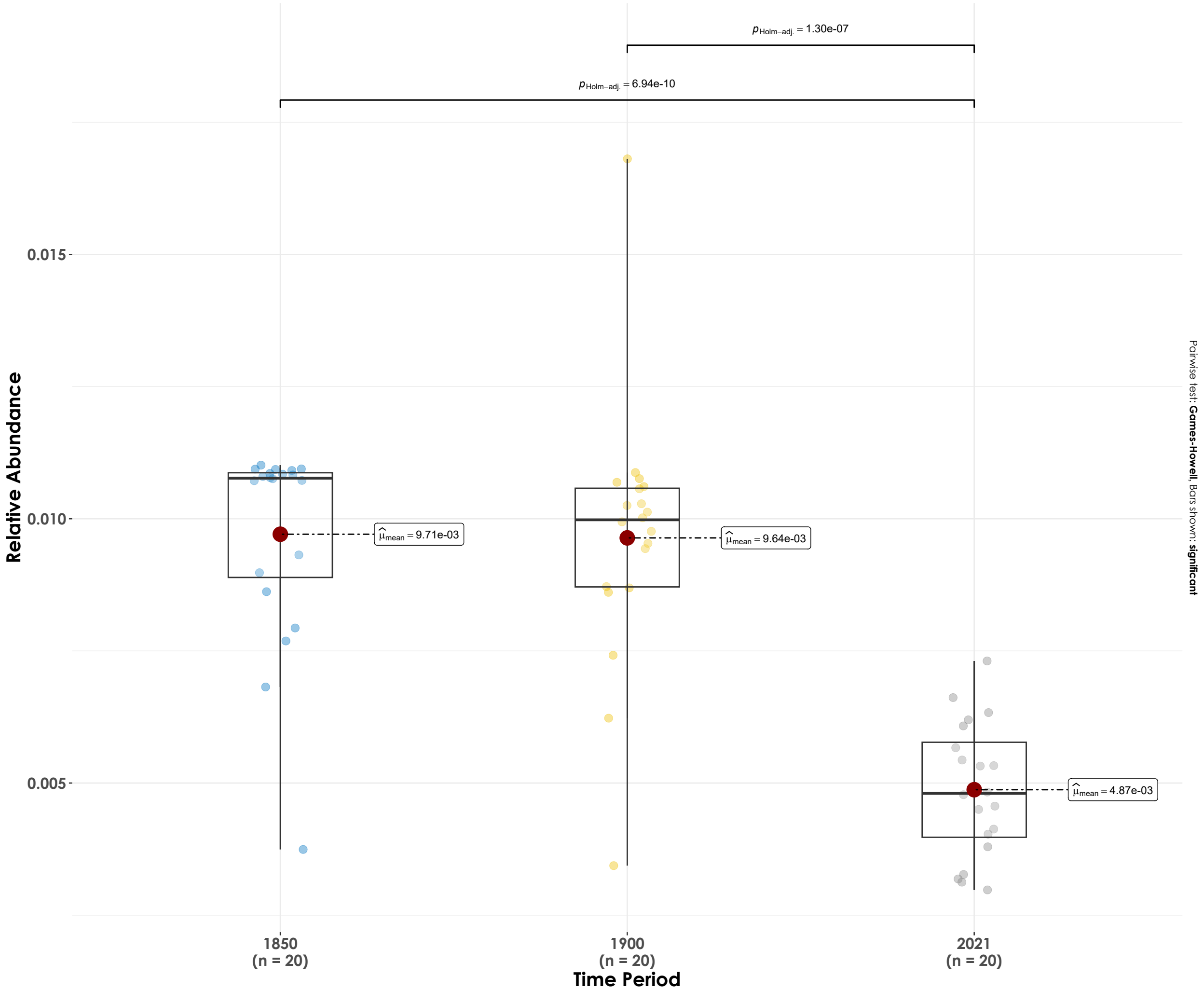
Pied Cuckoo

$F_{\text{Welch}}(2, 35.25) = 58.13, p = 6.88\text{e-}12, \widehat{\omega_p^2} = 0.75, \text{CI}_{95\%} [0.62, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 1.30\text{e-}07$

$p_{\text{Holm-adj.}} = 6.94\text{e-}10$

Relative Abundance

0.015

$\widehat{\mu}_{\text{mean}} = 9.71\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.64\text{e-}03$

0.010

0.005

$\widehat{\mu}_{\text{mean}} = 4.87\text{e-}03$

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = -20.47, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.57, \text{CI}_{95\%}^{\text{HDI}} [0.44, 0.67], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Puff-throated Babbler

$F_{\text{Welch}}(2, 33.78) = 3.69, p = 0.04, \widehat{\omega}_p^2 = 0.13, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = -1.03, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.08, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.23], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
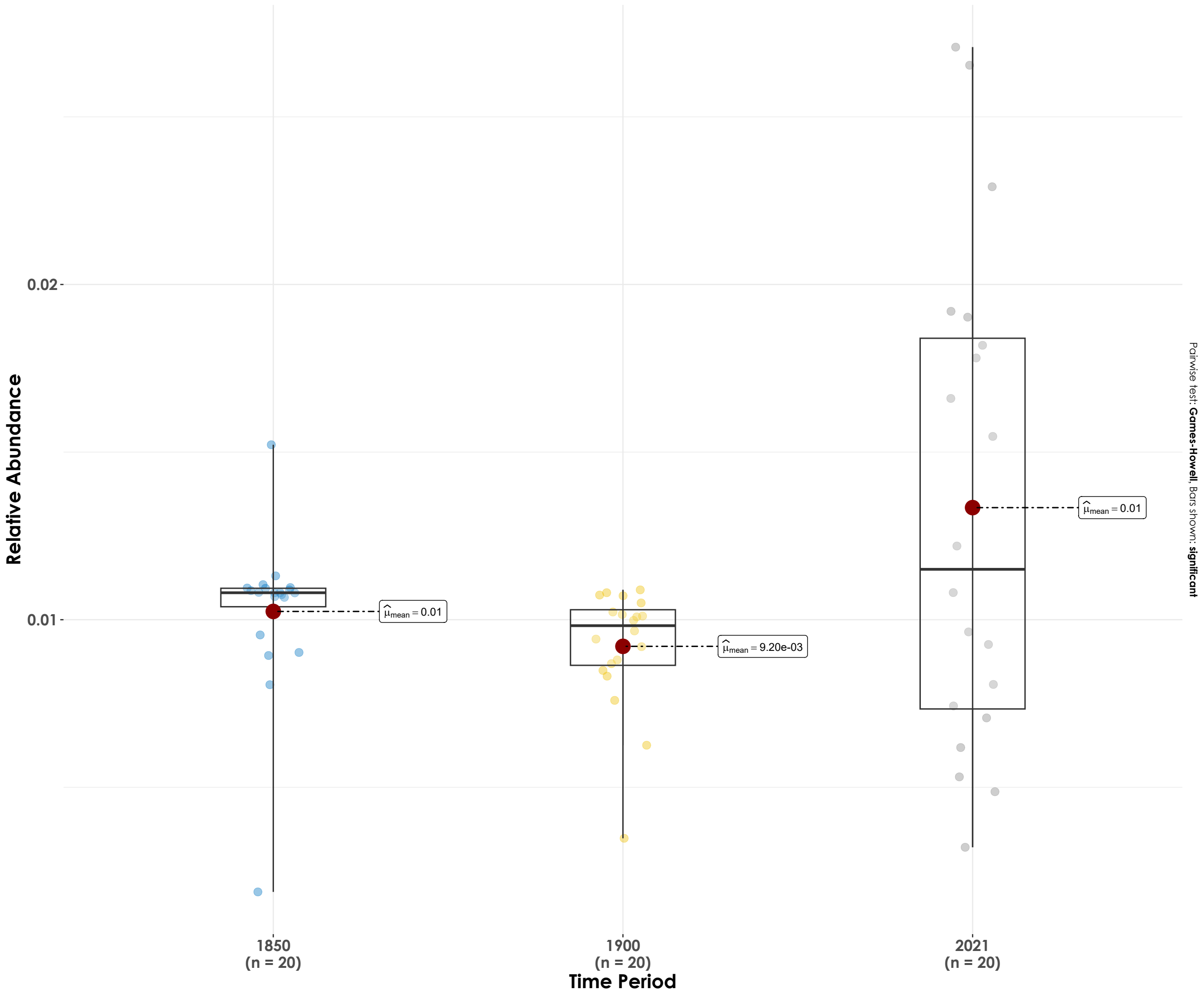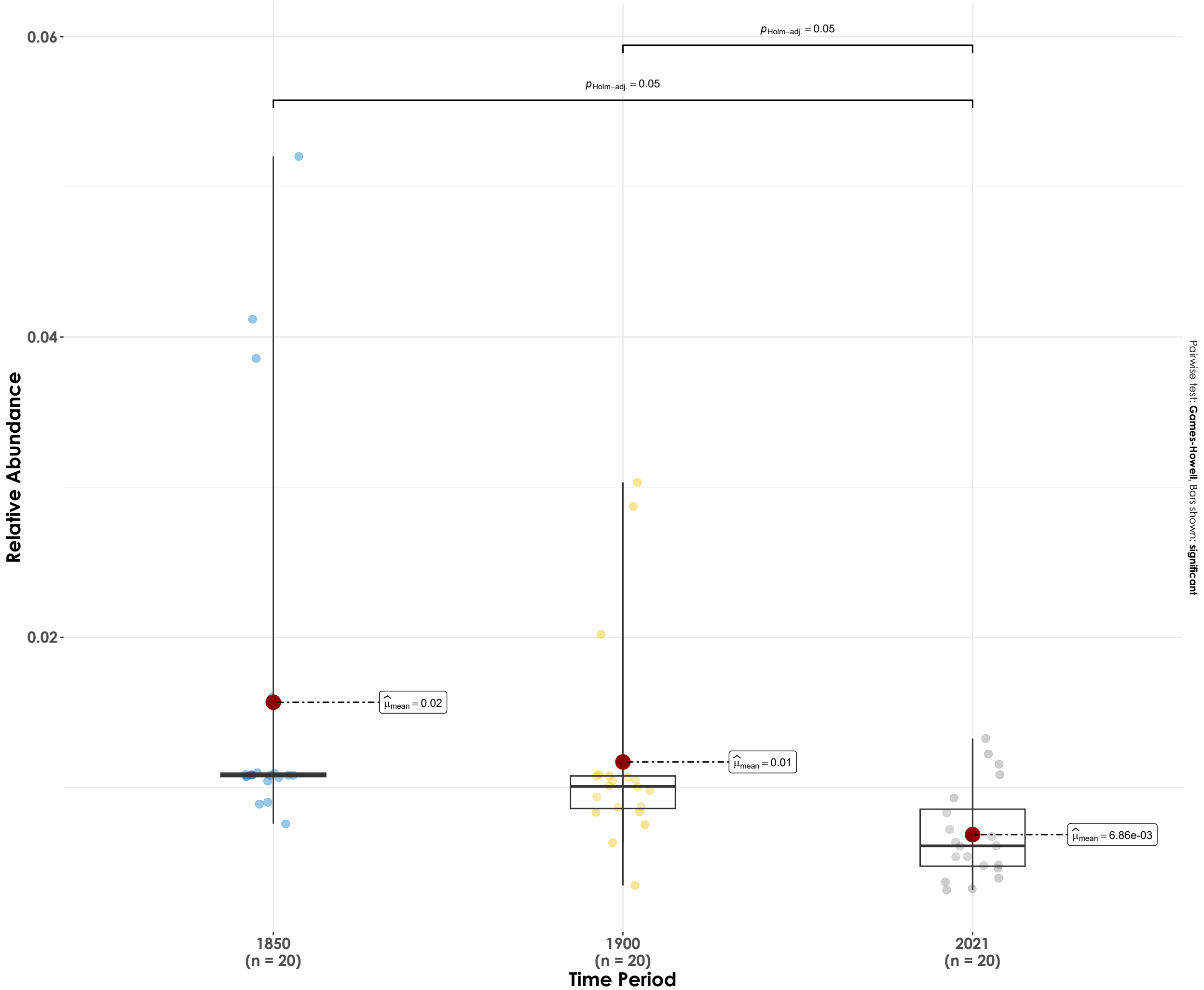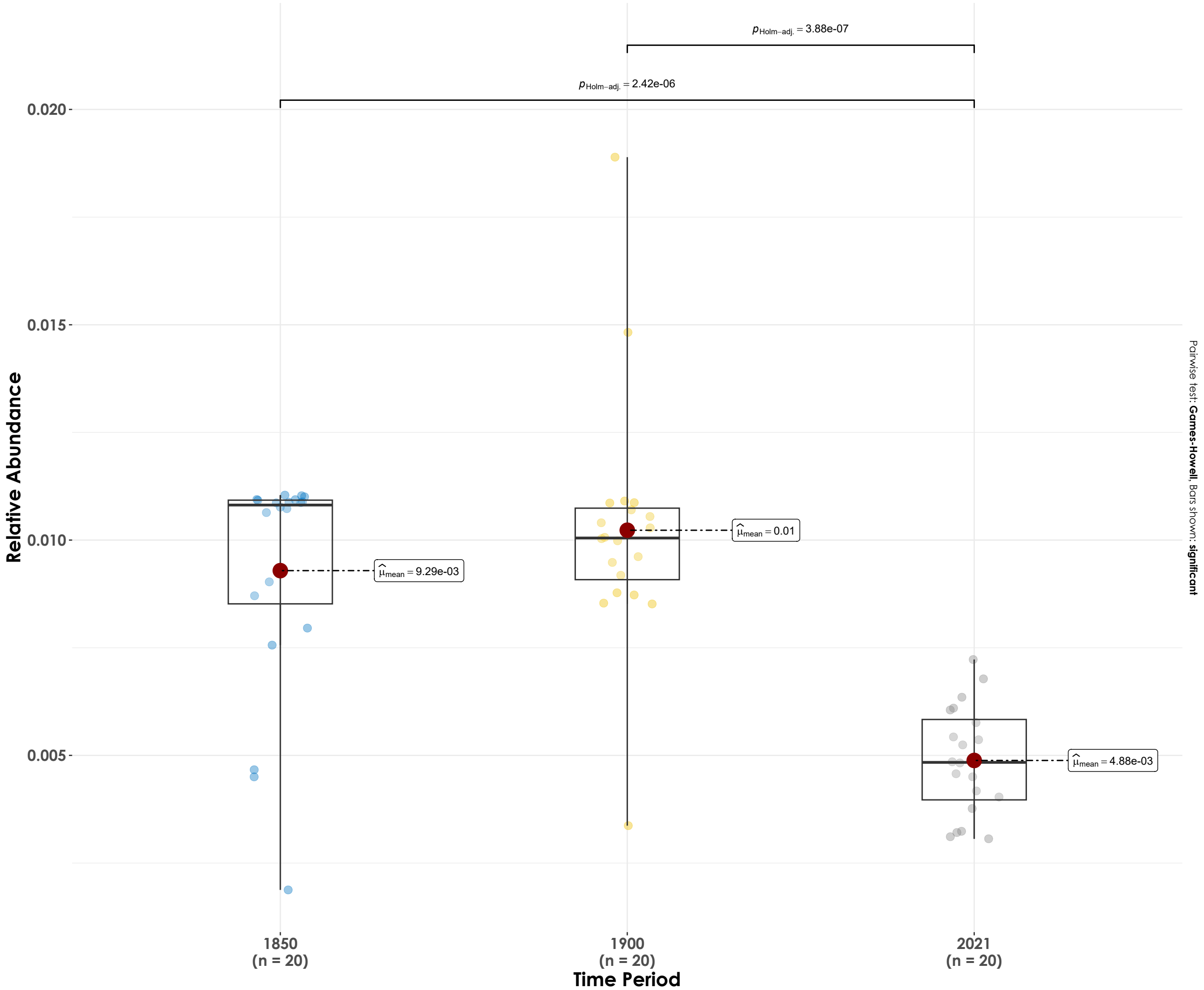
Red Spurfowl

$F_{\text{Welch}}(2, 30.63) = 7.92, p = 1.69\text{e-}03, \widehat{\omega_p^2} = 0.29, \text{CI}_{95\%} [0.07, 1.00], n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = -1.82, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.12, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.26], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Small Minivet

$F_{\text{Welch}}(2, 32.8) = 42.77, p = 7.26\text{e-}10, \widehat{\omega_p^2} = 0.70, \text{CI}_{95\%} [0.54, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 3.88\text{e-}07$

$p_{\text{Holm-adj.}} = 2.42\text{e-}06$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.29\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.88\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

0.020

0.015

0.010

0.005

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -15.38, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.48, \text{CI}_{95\%}^{\text{HDI}} [0.31, 0.59], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Southern Hill Myna

$F_{\text{Welch}}(2, 32.79) = 1.94, p = 0.16, \widehat{\omega}_p^2 = 0.05, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

Relative Abundance (y-axis)

- 0.04
- 0.03
- 0.02
- 0.01
- 0.00

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 9.80\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 6.69\text{e-}03$

Time Period (x-axis)

- 1850 (n = 20)
- 1900 (n = 20)
- 2021 (n = 20)

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = 0.47, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.14], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Speckled Piculet

$F_{\text{Welch}}(2, 33.1) = 43.80$, $p = 5.02\text{e-}10$, $\widehat{\omega}_p^2 = 0.70$, $\text{CI}_{95\%}$ [0.55, 1.00], $n_{\text{obs}} = 60$
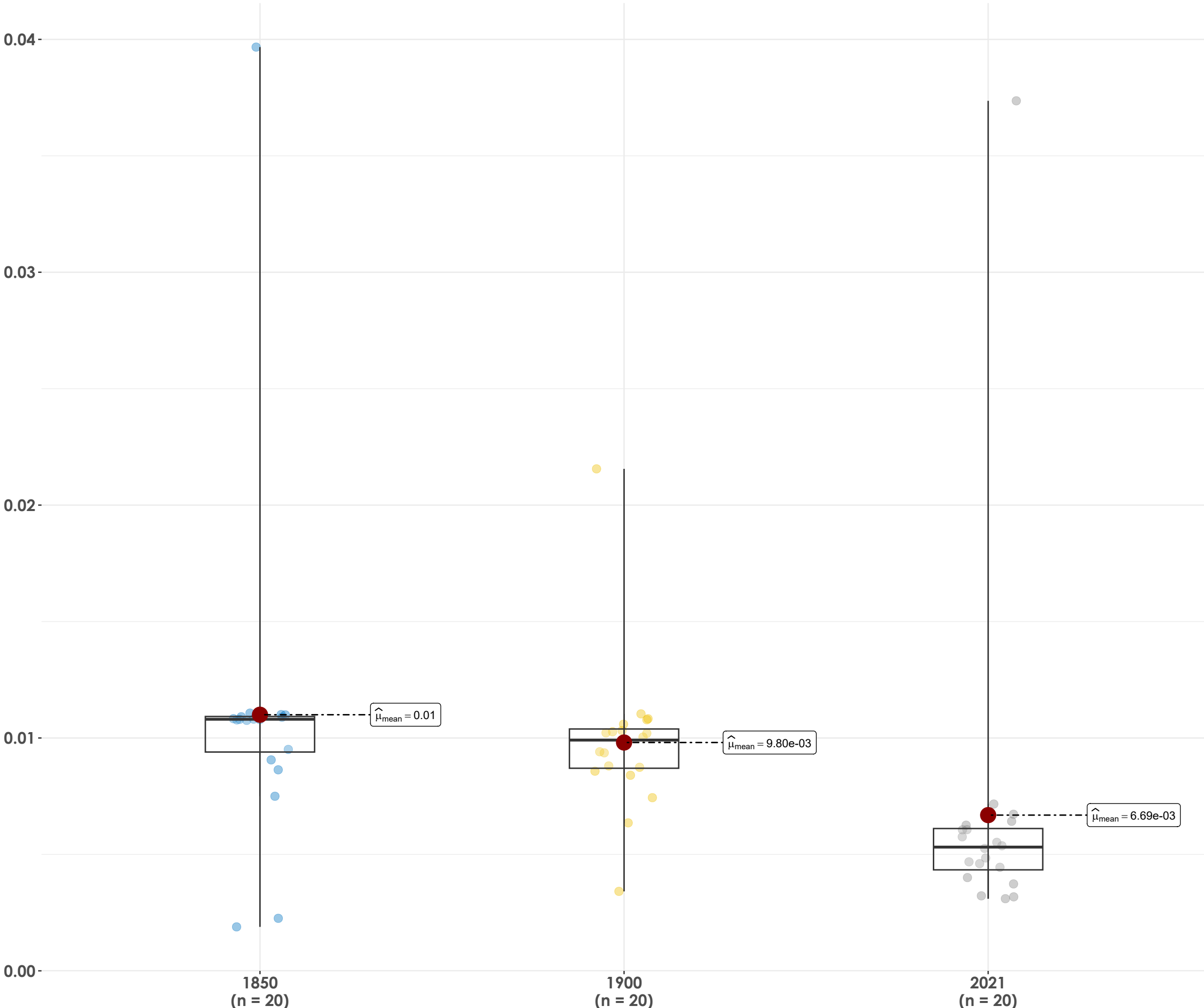
$p_{\text{Holm-adj.}} = 1.62\text{e-}07$

$p_{\text{Holm-adj.}} = 2.60\text{e-}06$

Relative Abundance

0.015

0.010

$\widehat{\mu}_{\text{mean}} = 9.65\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.65\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.88\text{e-}03$

0.005

Pairwise test: **Games-Howell**, Bars shown: **significant**

| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period

$\log_e(\text{BF}_{01}) = -15.19$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.47$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.32, 0.60], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Square-tailed Bulbul

$F_{\text{Welch}}(2, 32.79) = 2.99$, $p = 0.06$, $\widehat{\omega_p^2} = 0.10$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$
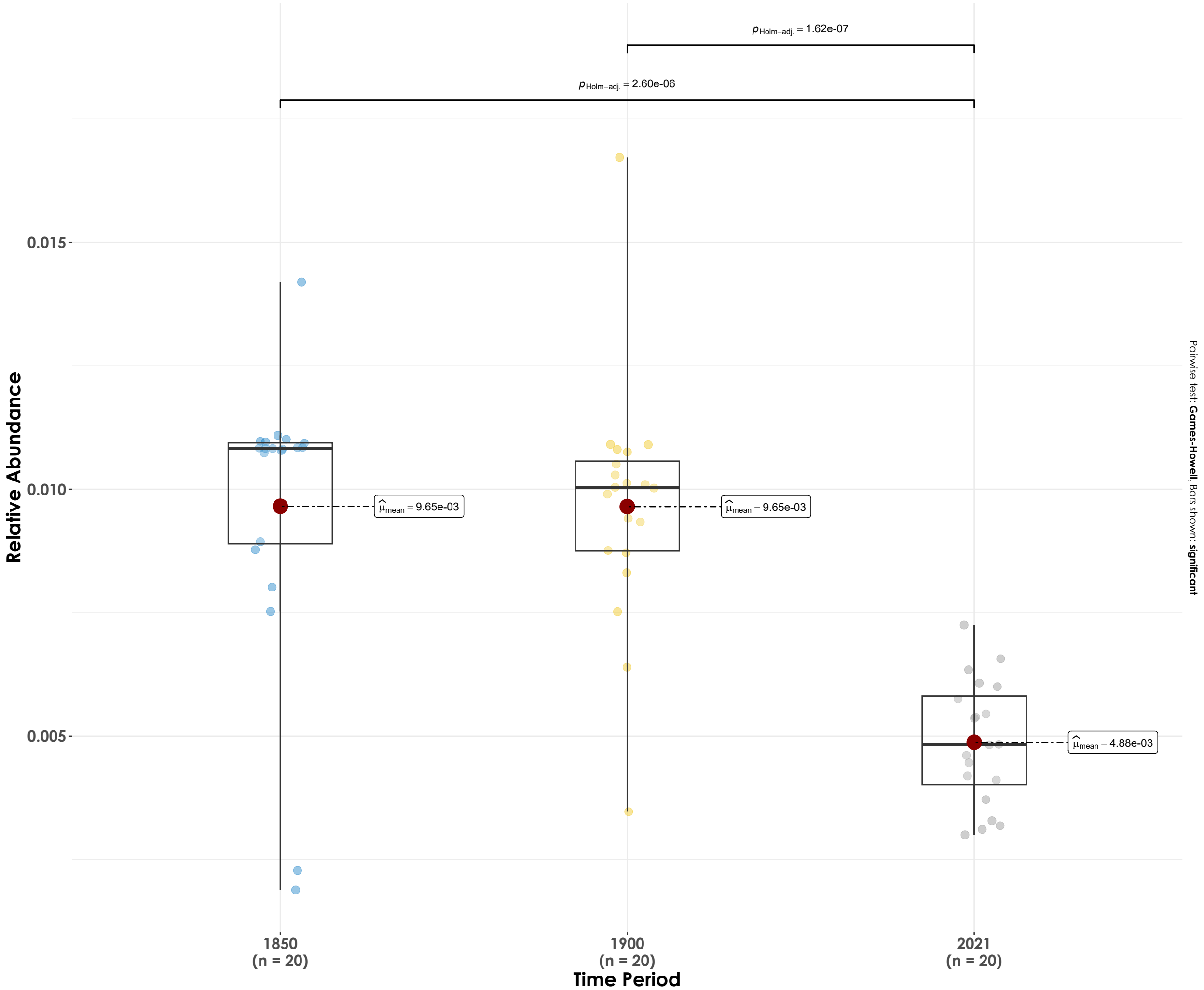
Relative Abundance

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\widehat{\mu}_{\text{mean}} = 0.03$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

0.10

0.05

0.00

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -0.79$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.07$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.22], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Streak-throated Woodpecker
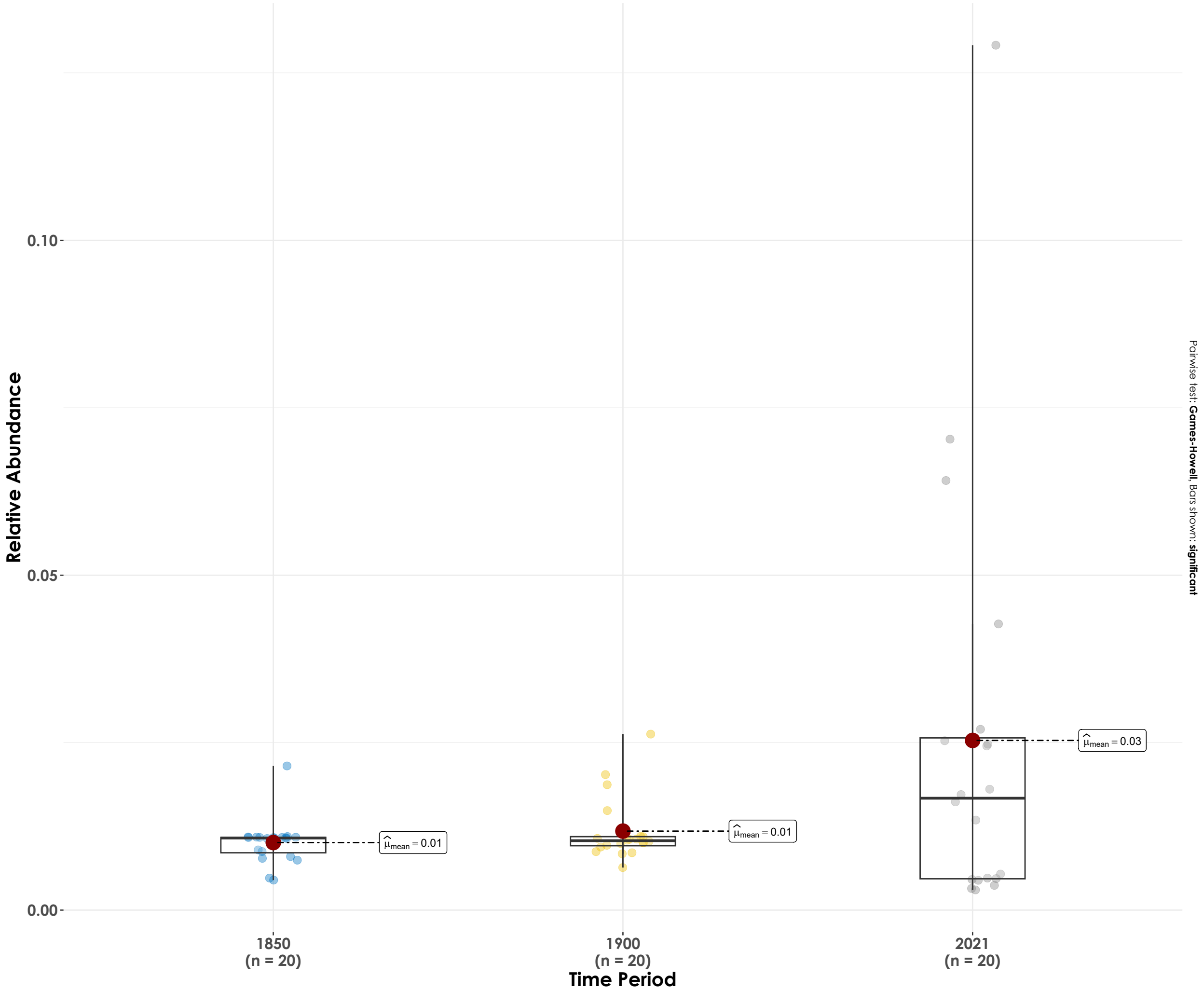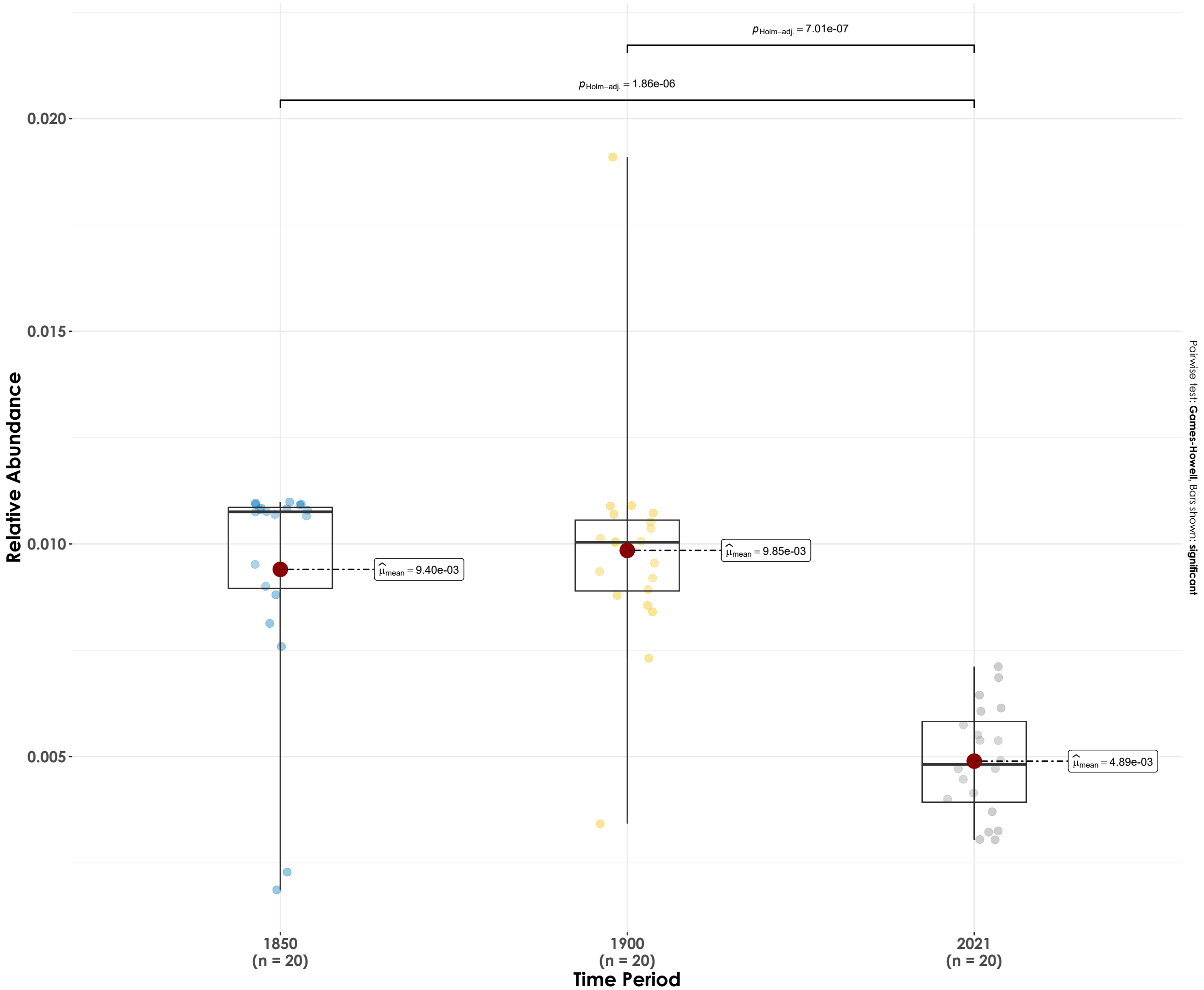
$F_{\text{Welch}}(2, 29.78) = 10.98, p = 2.68\text{e-}04, \widehat{\omega}_p^2 = 0.38, \text{CI}_{95\%} [0.14, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 0.02$

$p_{\text{Holm-adj.}} = 9.72\text{e-}03$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 5.72\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

| | 1850 (n = 20) | 1900 (n = 20) | 2021 (n = 20) |

Time Period
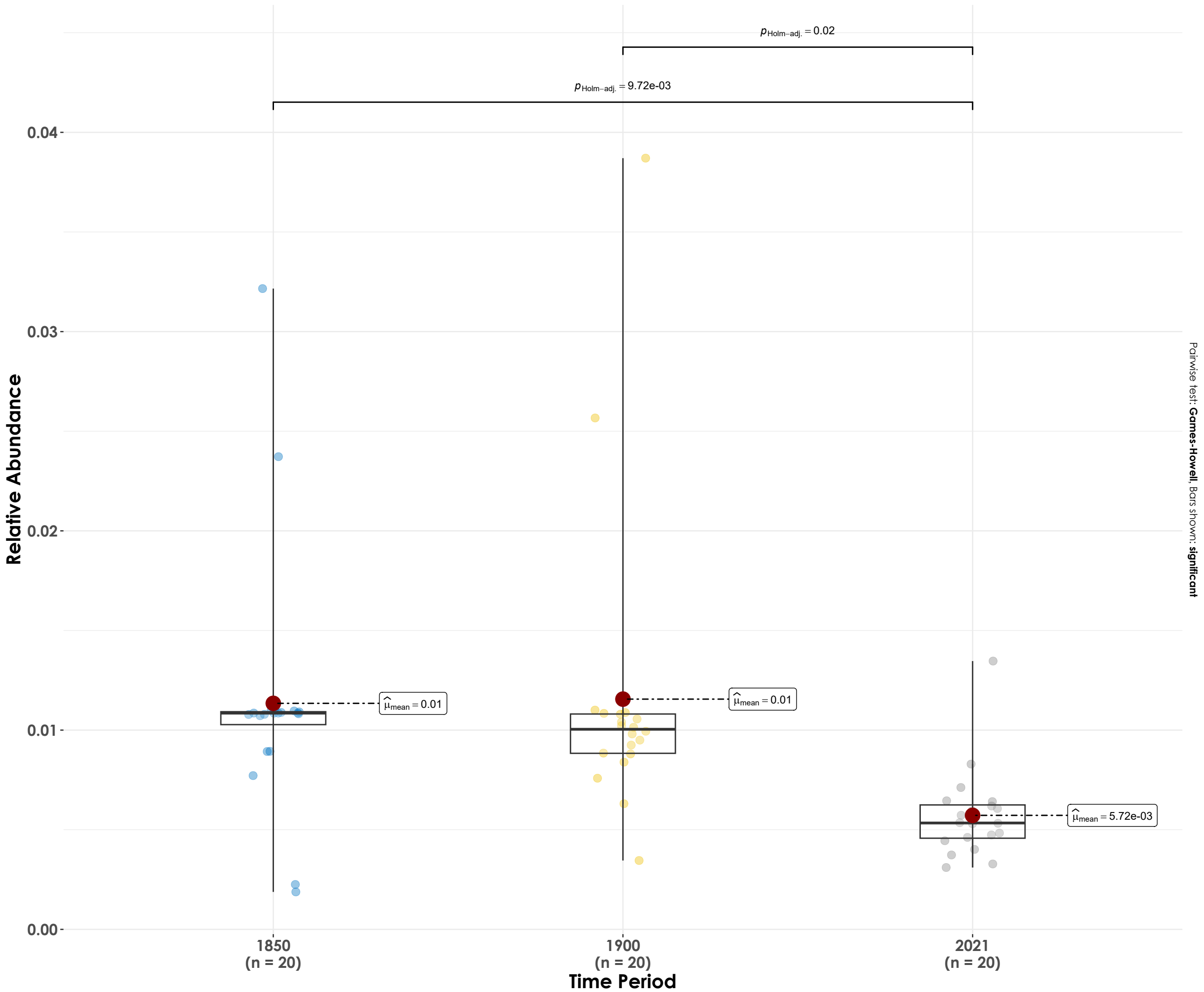
$\log_e(\text{BF}_{01}) = -2.41, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.14, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.28], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Thick-billed Flowerpecker

$F_{\text{Welch}}(2, 33.11) = 40.95$, $p = 1.12\text{e-}09$, $\widehat{\omega}_p^2 = 0.69$, $\text{CI}_{95\%}$ [0.53, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 7.01\text{e-}07$

$p_{\text{Holm-adj.}} = 1.86\text{e-}06$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 9.40\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.85\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 4.89\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

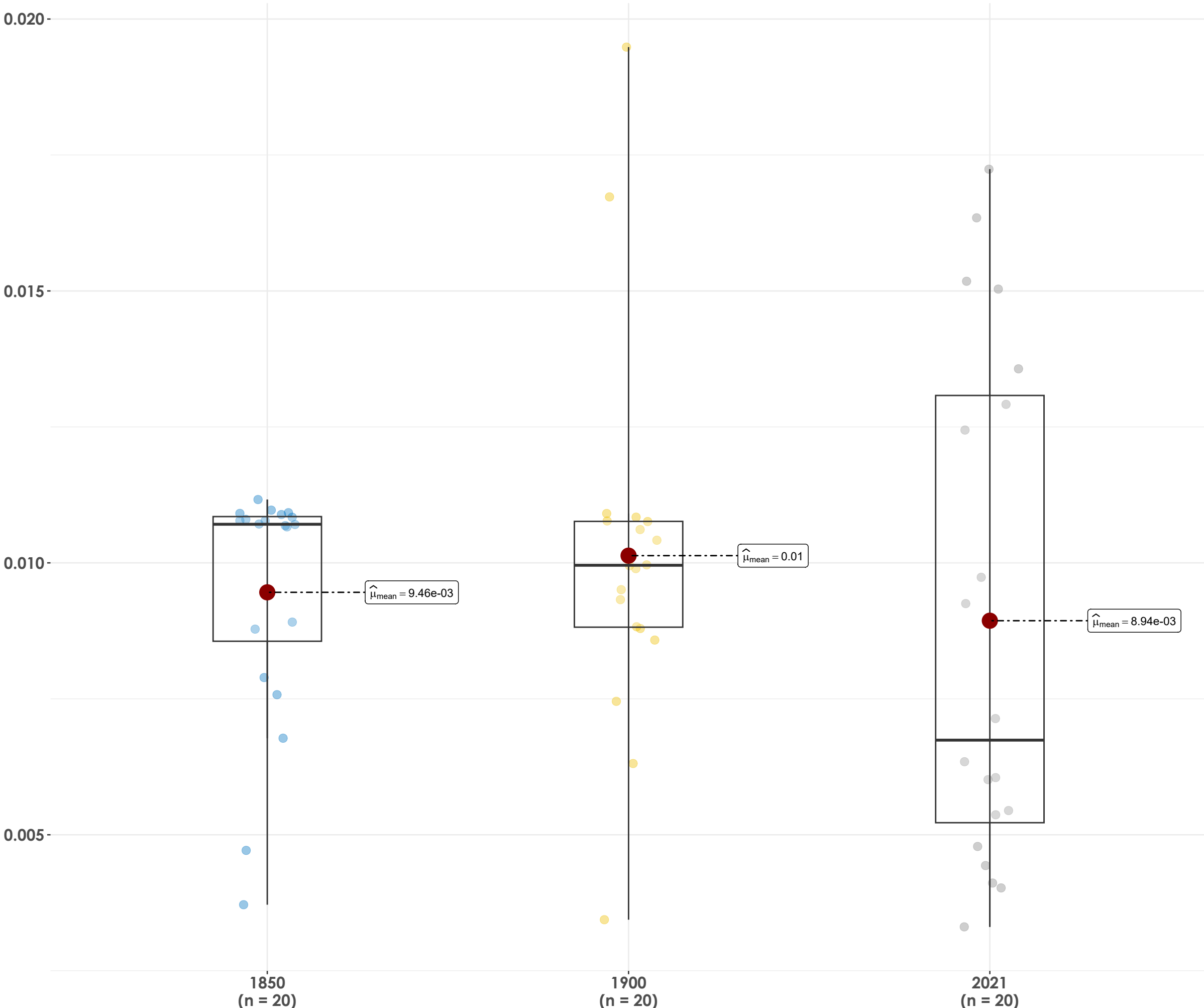| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period

$\log_e(\text{BF}_{01}) = -14.72$, $\widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.46$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.30, 0.58], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Tickell's Blue Flycatcher

$F_{\text{Welch}}(2, 35.05) = 0.49$, $p = 0.62$, $\widehat{\omega_p^2} = 0.00$, $\text{CI}_{95\%}$ [0.00, 1.00], $n_{\text{obs}} = 60$

$\widehat{\mu}_{\text{mean}} = 9.46\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 8.94\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

Relative Abundance

Time Period

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

$\log_e(\text{BF}_{01}) = 2.06$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.00$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.00, 0.03], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Tickell's Leaf Warbler

$F_{\text{Welch}}(2, 37.3) = 20.44$, $p = 1.02\text{e-}06$, $\widehat{\omega_p^2} = 0.49$, $\text{CI}_{95\%}$ [0.28, 1.00], $n_{\text{obs}} = 60$
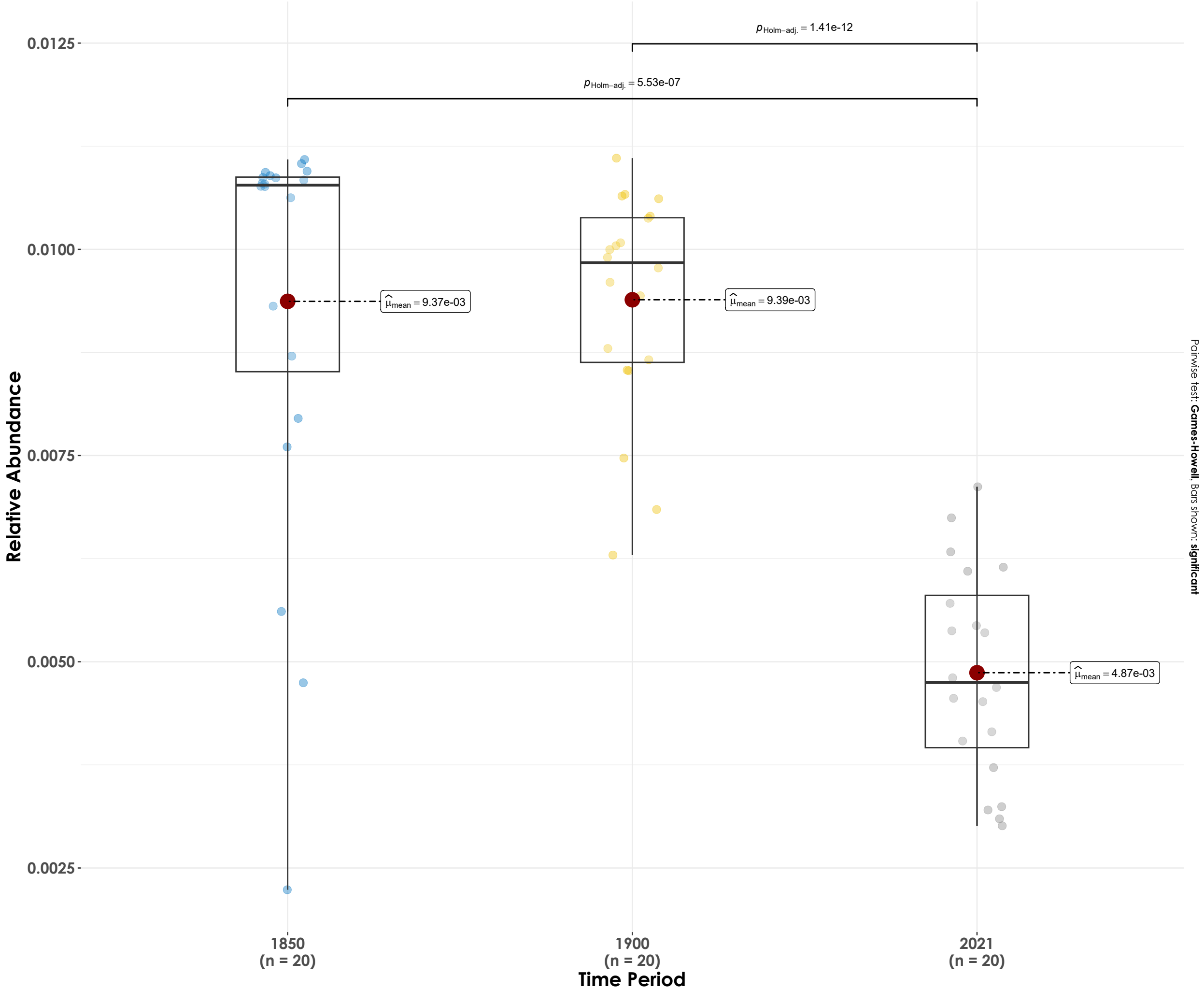
$p_{\text{Holm-adj.}} = 4.87\text{e-}05$

$p_{\text{Holm-adj.}} = 3.41\text{e-}05$

Relative Abundance

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 5.81\text{e-}03$

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period
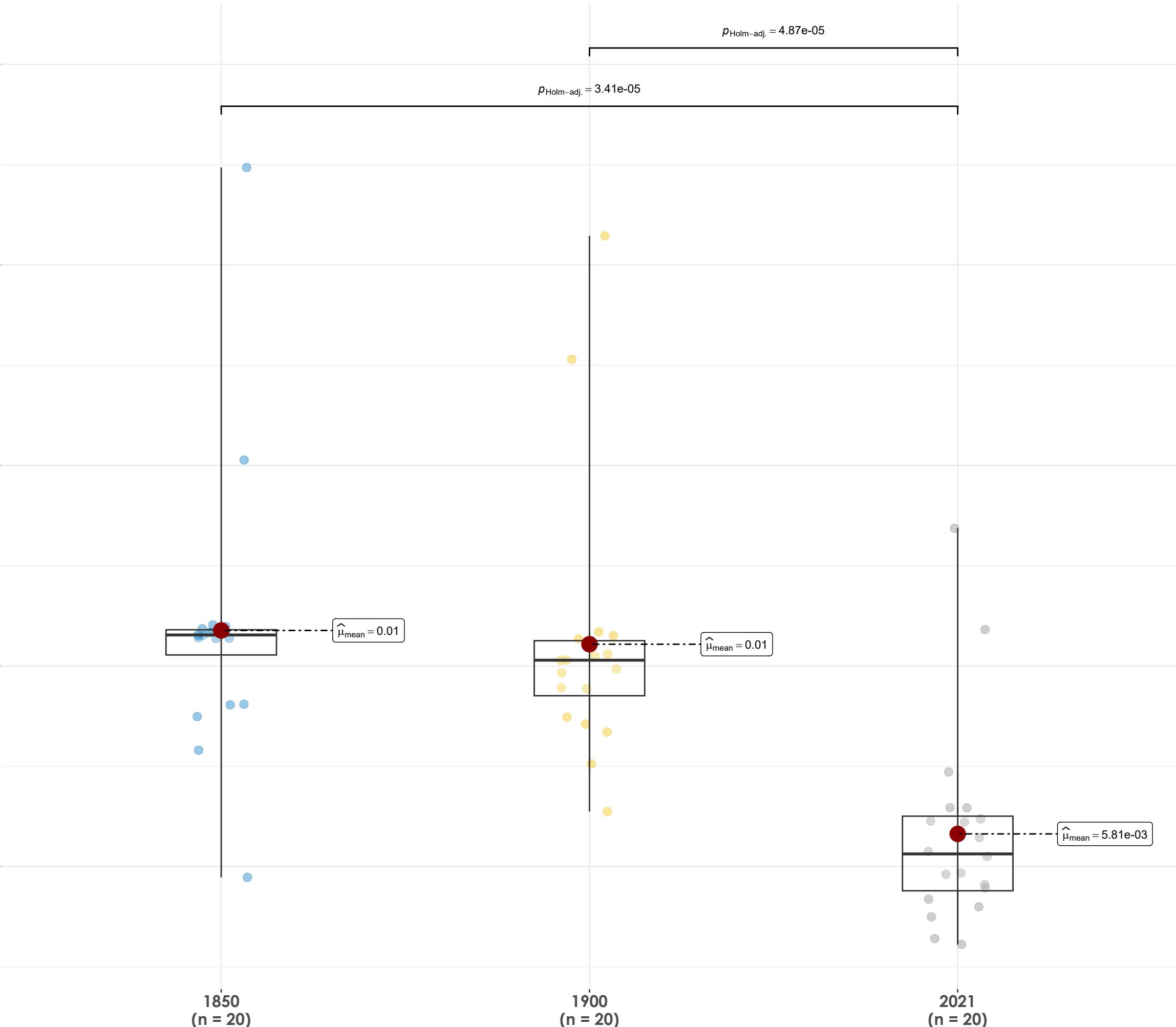
$\log_e(\text{BF}_{01}) = -9.61$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.35$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.18, 0.49], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Tytler's Leaf Warbler

$F_{\text{Welch}}(2, 36.05) = 67.47$, $p = 6.50\text{e-}13$, $\widehat{\omega_p^2} = 0.77$, $\text{CI}_{95\%}$ [0.66, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 1.41\text{e-}12$

$p_{\text{Holm-adj.}} = 5.53\text{e-}07$

0.0125

0.0100

$\widehat{\mu}_{\text{mean}} = 9.37\text{e-}03$

$\widehat{\mu}_{\text{mean}} = 9.39\text{e-}03$

0.0075

Relative Abundance

0.0050

$\widehat{\mu}_{\text{mean}} = 4.87\text{e-}03$

0.0025

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

Pairwise test: **Games-Howell**, Bars shown: **significant**

$\log_e(\text{BF}_{01}) = -21.04$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.58$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.44, 0.67], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
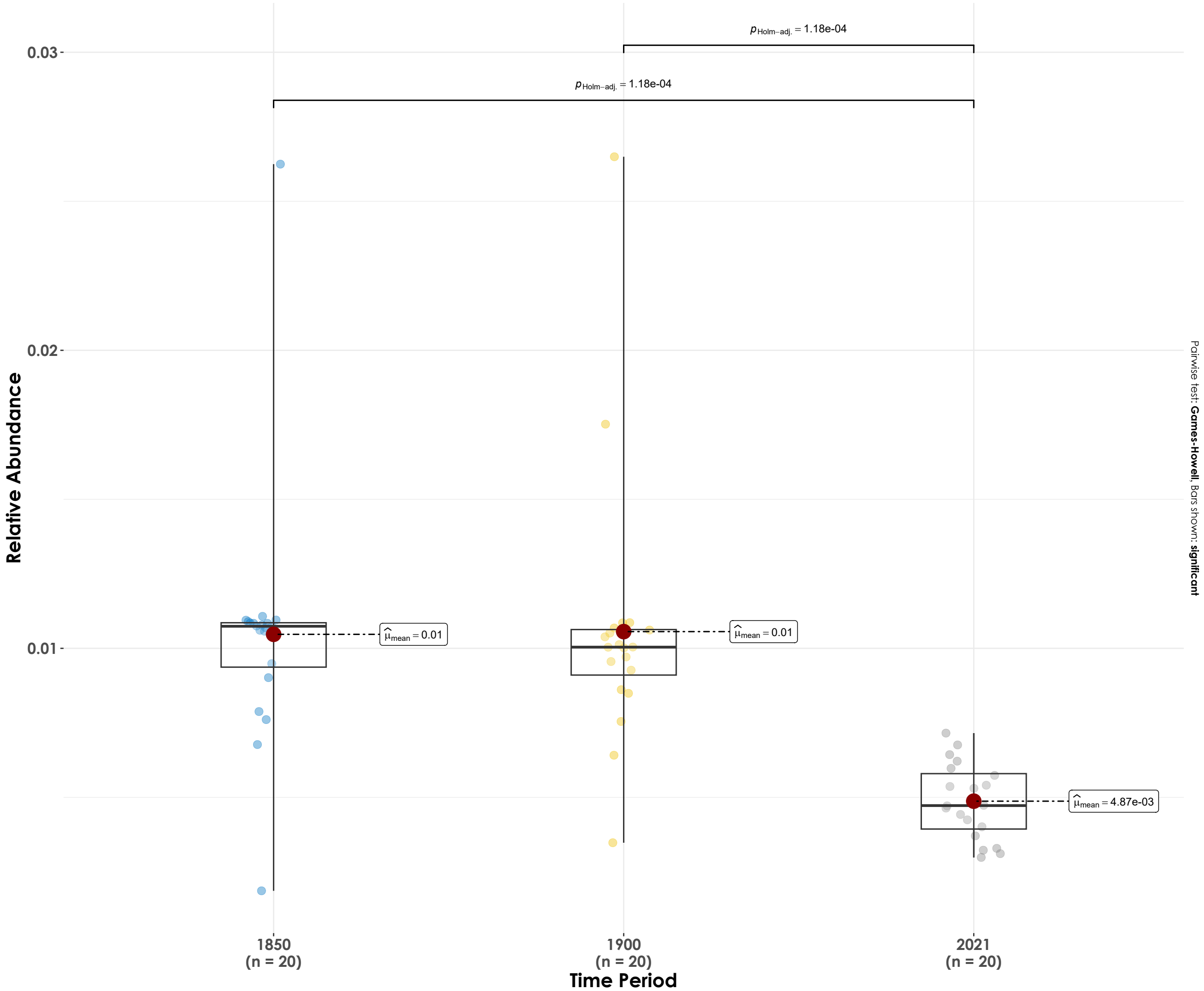
Velvet-fronted Nuthatch

$F_{\text{Welch}}(2, 31.8) = 4.88, p = 0.01, \widehat{\omega}_p^2 = 0.18, \text{CI}_{95\%} [4.83\text{e-}03, 1.00], n_{\text{obs}} = 60$
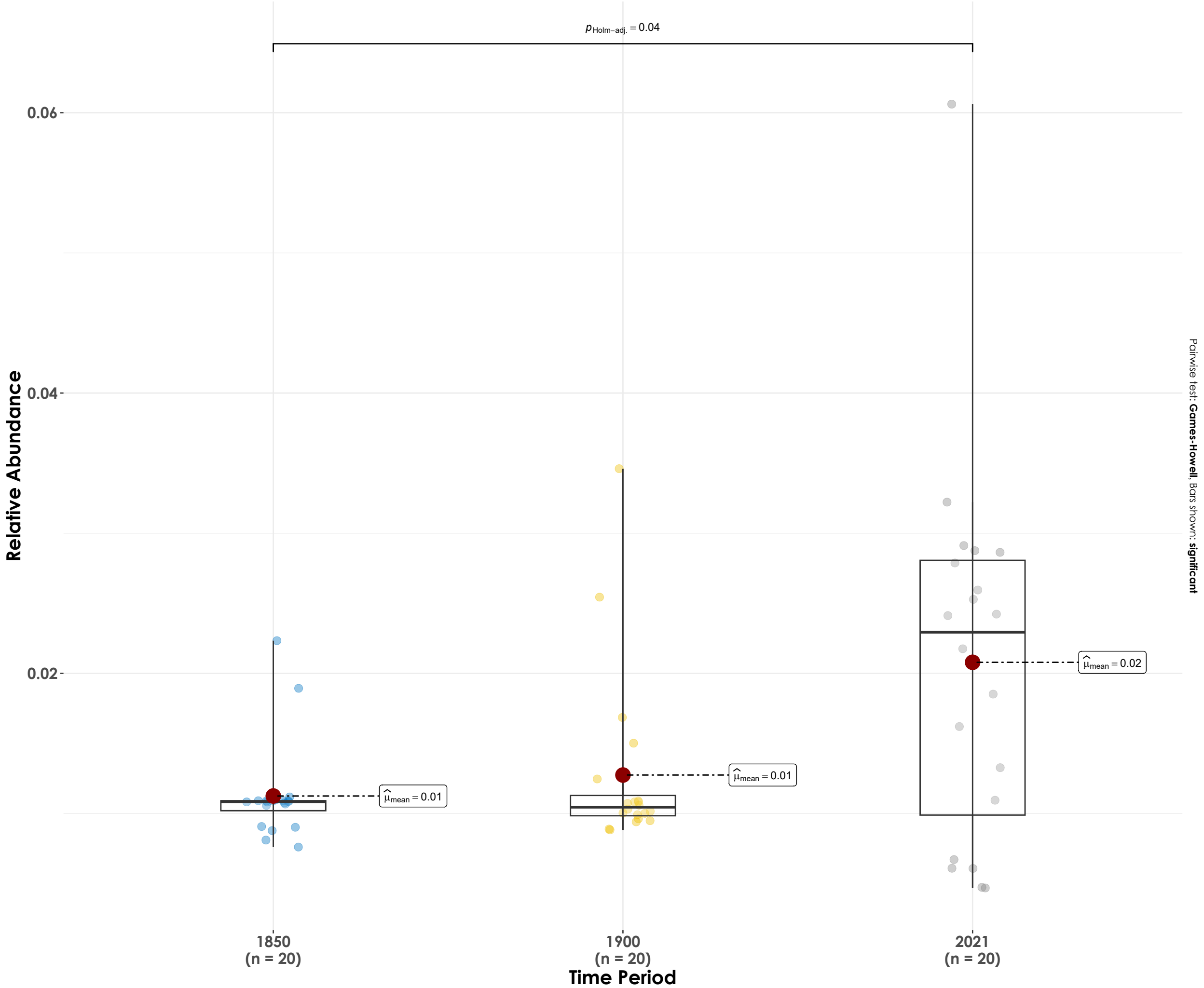
$\log_e(\text{BF}_{01}) = -2.81, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.16, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.29], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
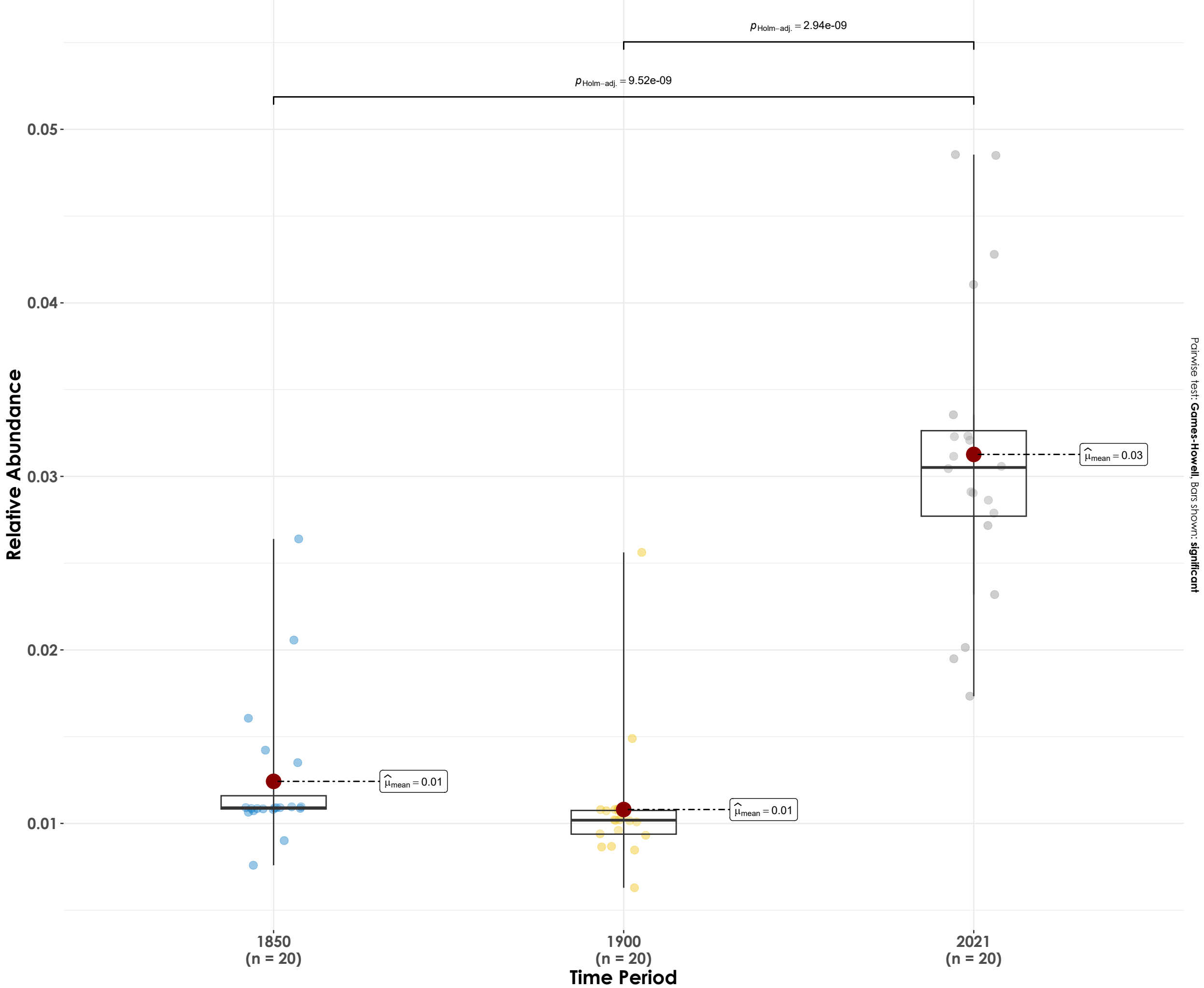
White-bellied Blue Flycatcher

$F_{\text{Welch}}(2, 28.96) = 27.25, p = 2.20\text{e-}07, \widehat{\omega_p^2} = 0.62, \text{CI}_{95\%}\ [0.42, 1.00], n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 1.18\text{e-}04$

$p_{\text{Holm-adj.}} = 1.18\text{e-}04$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 4.87\text{e-}03$

Relative Abundance

Pairwise test: **Games-Howell**, Bars shown: **significant**

| 1850 | 1900 | 2021 |
| (n = 20) | (n = 20) | (n = 20) |

Time Period

$\log_e(\text{BF}_{01}) = -8.49, \widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.32, \text{CI}_{95\%}^{\text{HDI}}\ [0.15, 0.47], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$
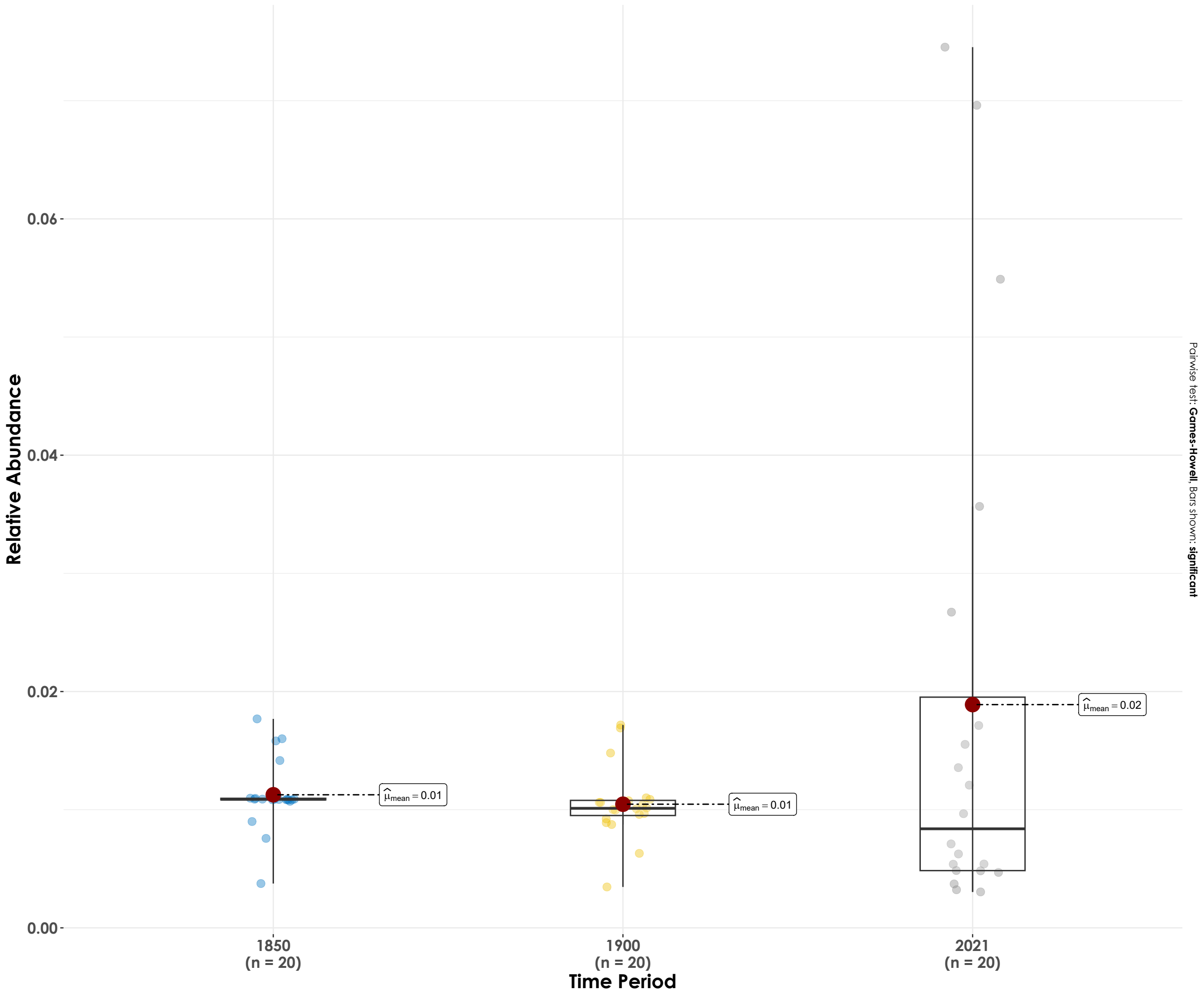
White-cheeked Barbet

$F_{\text{Welch}}(2, 35.68) = 47.54$, $p = 8.67\text{e-}11$, $\widehat{\omega_p^2} = 0.71$, $\text{CI}_{95\%}$ [0.56, 1.00], $n_{\text{obs}} = 60$

$p_{\text{Holm-adj.}} = 2.94\text{e-}09$

$p_{\text{Holm-adj.}} = 9.52\text{e-}09$

$\widehat{\mu}_{\text{mean}} = 0.03$

$\widehat{\mu}_{\text{mean}} = 0.01$

$\widehat{\mu}_{\text{mean}} = 0.01$

Relative Abundance

0.05

0.04

0.03

0.02

0.01

Pairwise test: **Games-Howell**, Bars shown: **significant**

1850
(n = 20)

1900
(n = 20)

2021
(n = 20)

Time Period

$\log_e(\text{BF}_{01}) = -31.04$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.71$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.62, 0.77], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Yellow-browed Bulbul

$F_{\text{Welch}}(2, 33.97) = 1.59, p = 0.22, \widehat{\omega}_p^2 = 0.03, \text{CI}_{95\%} [0.00, 1.00], n_{\text{obs}} = 60$

$\log_e(\text{BF}_{01}) = 0.48, \widehat{R}^2{}_{\text{Bayesian}}^{\text{posterior}} = 0.00, \text{CI}_{95\%}^{\text{HDI}} [0.00, 0.15], r_{\text{Cauchy}}^{\text{JZS}} = 0.71$