Denmark_F_1900_post.csv_run_20_20250529_152222

May 29, 2025

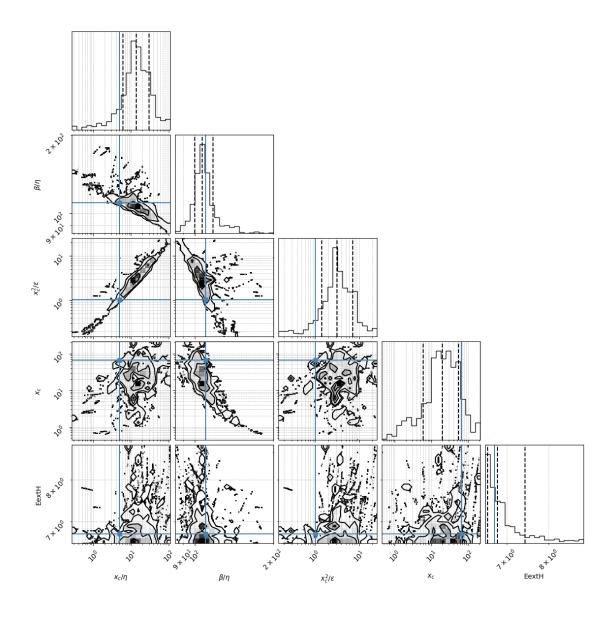
/Users/navehr/Dropbox/naveh/weizmann/uri alon/aging/code_3

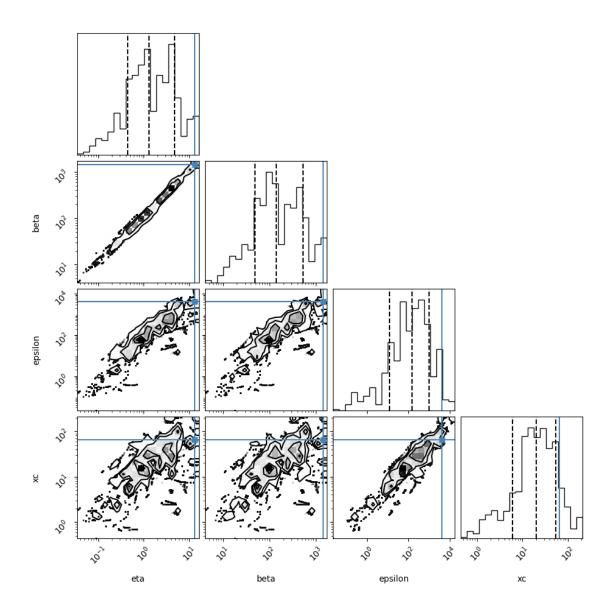
Loading file from: /Users/navehr/Dropbox/naveh/weizmann/uri alon/aging/code_3/baysian02/posterior_csvs_baysian01/HUMANS/Denmark_F_1900_post.csv

Reading Humans_F

1 # 1. Density coner plot

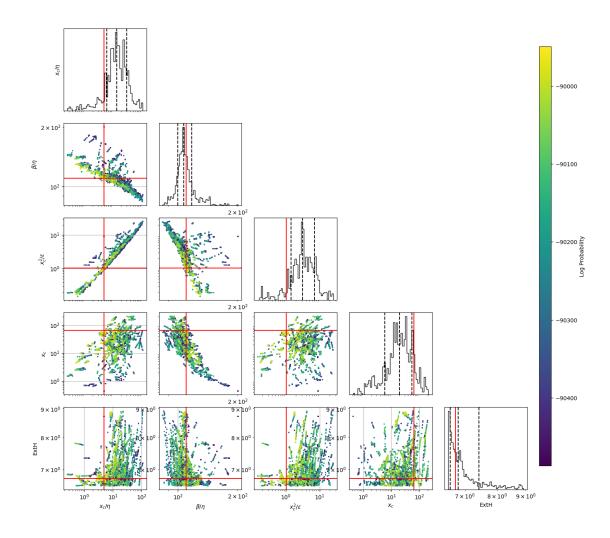
A sample is 1 parameter set scanned. For the corner plot below, the quantiles (represented by the solid lines) are 0.16,0.5,0.84 of the samples. Dots represent individual samples (outside the line surrounding 0.84 of the samples) The parameter search is performed in the transformed space of $x_c/\eta,\,\beta/\eta,\,x_c^2/\epsilon,\,x_c$ but we also show the regular parameters (25,)





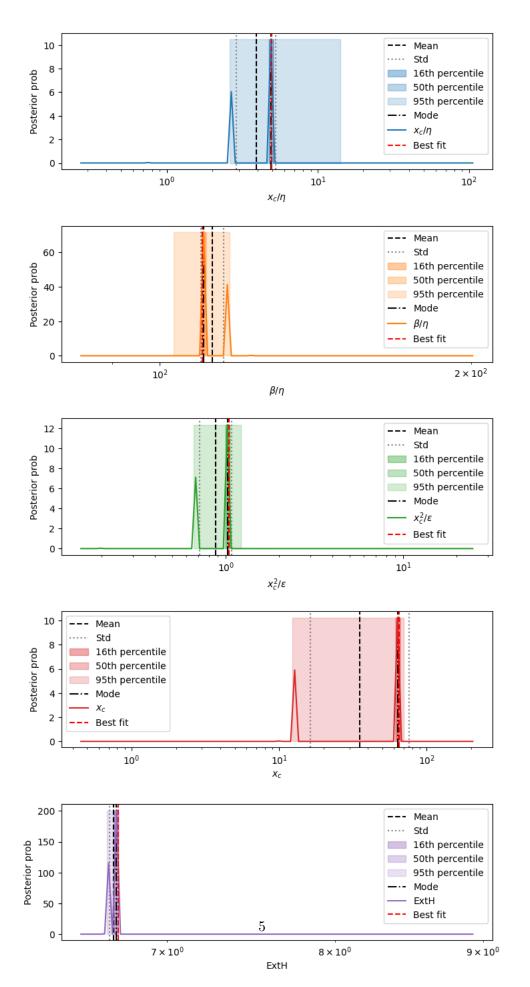
2 2. Heat map corner plot of raw samples

This plot shows all the raw sample points and their lnprobability



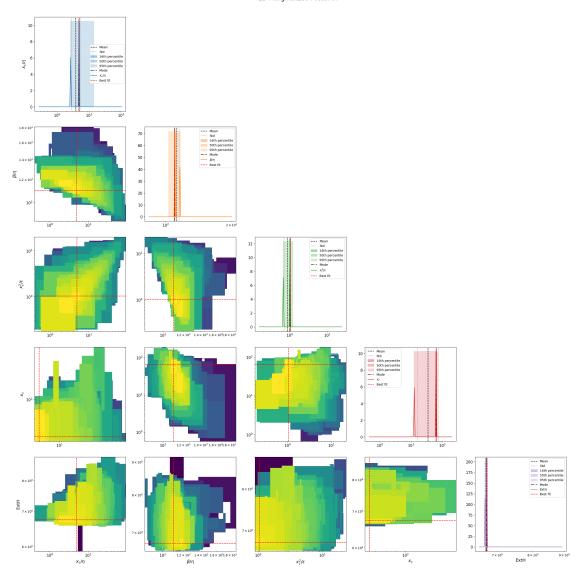
3 3. Posterior distributions of parameters

1d marginalizations of posterior distributions. we use a grid of size nbins=100-150



2D marginalizations of posterior distributions

2D Marginalized Posterior



Rescaling the samples TIME by 365

4 4. Table of results

mode is the marginalized mode, max_likwlihood is the sample with highest likelihood mode_overall is the 4D posterior mode

,	mean	std	\
xc/eta	3.912	[1.366, 1.012]	
beta/eta	112.458	[2.931, 2.857]	
xc^2/epsilon	0.875	[0.203, 0.165]	
XC	35.237	[41.234, 19.0]	
ExtH	6.708	[0.0205, 0.0205]	
eta	9.033	[5.945, 3.585]	
beta	1009.853	[553.89, 357.698]	
epsilon	1559.102	[4230.752, 1139.264]	
sqrt(xc/eta)	1.981	[0.31, 0.268]	
s= eta^0.5*xc^1.5/epsilon	0.436	[0.0332, 0.0308]	
beta*xc/epsilon	24.936	[2.329, 2.13]	
eta*xc/epsilon	0.241	[0.0108, 0.0103]	
Fx=beta^2/eta*xc	4524.109	[1215.659, 958.188]	
<pre>Dx =beta*epsilon/eta*xc^2</pre>	163.884	[31.756, 26.602]	
Pk=beta*k/epsilon	0.344	[0.453, 0.195]	
Fk=beta^2/eta*k	233553.706	[129123.021, 83151.627]	
Dk =beta*epsilon/eta*k^2	665703.453	[1664757.378, 475543.172]	
-	79792.509		
Fk^2/Dk=beta^3/eta*epsilon		[43281.845, 28060.818]	
epsilon/beta^2	0.00145	[0.000797, 0.000515]	
k/beta	0.000495	[0.000271, 0.000175]	
k^2/epsilon	0.00016	[0.000435, 0.000117]	
best fit_MedianLifetime	78.84	0.51	
best fit_MaxLifetime	108.09	0	
${\tt data_MedianLifetime}$	75.0	0.51	
${\tt data_MaxLifetime}$	106.0	0	
	mode	\	
xc/eta	4.606		
beta/eta	110.286		
xc^2/epsilon	0.83		
xc	52.796		
ExtH	6.681		
eta	12.465		
beta	1324.654		
epsilon	2804.541		
sqrt(xc/eta)	2.146		
s= eta^0.5*xc^1.5/epsilon	0.461		
beta*xc/epsilon	24.034		
eta*xc/epsilon	0.222		
Fx=beta^2/eta*xc	2941.086		
Dx =beta*epsilon/eta*xc^2	145.071		
-			
Pk=beta*k/epsilon	0.218		
Fk=beta^2/eta*k	415645.061		
Dk =beta*epsilon/eta*k^2	1168907.145		
Fk^2/Dk=beta^3/eta*epsilon	57634.261		
epsilon/beta^2	0.00202		

best fit_MedianLifetime best fit_MaxLifetime 108.09 data_MedianLifetime 75.0 data_MaxLifetime 106.0	k/ beta	0.000355	
Dest fit_MaxLifetime 108.09	k^2/epsilon	0.000089	
data_MedianLifetime 75.0 data_MaxLifetime 106.0 percentile_16 \ xc/eta percentile_16 \ (xc/eta) percentile_16 \ (xc/eta) percentile_16 \ (xc/eta) percentile_16 \ (x.469, 4.747) beta/eta/eta/eta/eta/eta (109.801, 110.7773) xc (51.19, 54.452) ExtH (6.67, 6.692) eta (12086, 12.886) beta (2619.885, 3002.213) sqrt(xc/eta) [2.114, 2.179] s= eta^0.5*xc^1.5/epsilon [0.454, 0.468] beta*xc/epsilon [0.219, 0.224] peta*xc/epsilon [0.219, 0.224] peta*xc/epsilon [0.219, 0.224] pk*beta*2/eta*xc [2838.863, 3046.899] pk*cbaca*2/eta*xc [1095268.258, 1247497.043] pk*cbaca*2/eta*xc [109.80.258, 1247497.043] pk*cbaca*2/epsilon [55158.599, 60221.037] </td <td>best fit_MedianLifetime</td> <td>78.84</td> <td></td>	best fit_MedianLifetime	78.84	
data_MaxLifetime	best fit_MaxLifetime	108.09	
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best fit_MedianLifetime [78.3500000000001], 79.350000000000001] best fit_MaxLifetime [108.09, 108.09] data_MedianLifetime [74.51, 75.51] data_MaxLifetime [106.0, 106.0] percentile_50 \ xc/eta [4.469, 5.042] beta/eta [109.801, 110.773] xc^2/epsilon [0.769, 0.897] xc [51.19, 57.922] ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	k/beta	[0.000344, 0.000366]	
best fit_MaxLifetime	k^2/epsilon	[8.32e-05, 9.53e-05]	
data_MedianLifetime [74.51, 75.51] data_MaxLifetime [106.0, 106.0] xc/eta percentile_50 xc/eta [4.469, 5.042] beta/eta [109.801, 110.773] xc^2/epsilon [0.769, 0.897] xc [51.19, 57.922] ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	best fit_MedianLifetime	[78.3500000000001, 79.3500000000001]	
data_MaxLifetime [106.0, 106.0] xc/eta percentile_50 \ xc/eta [4.469, 5.042] beta/eta [109.801, 110.773] xc^2/epsilon [0.769, 0.897] xc [51.19, 57.922] ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	best fit_MaxLifetime	[108.09, 108.09]	
data_MaxLifetime [106.0, 106.0] xc/eta percentile_50 \ xc/eta [4.469, 5.042] beta/eta [109.801, 110.773] xc^2/epsilon [0.769, 0.897] xc [51.19, 57.922] ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	data_MedianLifetime	[74.51, 75.51]	
percentile_50 \ xc/eta	_		
xc/eta[4.469, 5.042]beta/eta[109.801, 110.773]xc^2/epsilon[0.769, 0.897]xc[51.19, 57.922]ExtH[6.67, 6.713]eta[11.362, 12.856]beta[1285.164, 1450.556]epsilon[2286.245, 3002.213]sqrt(xc/eta)[2.114, 2.245]s= eta^0.5*xc^1.5/epsilon[0.44, 0.468]beta*xc/epsilon[23.665, 24.408]	_	- , -	
xc/eta[4.469, 5.042]beta/eta[109.801, 110.773]xc^2/epsilon[0.769, 0.897]xc[51.19, 57.922]ExtH[6.67, 6.713]eta[11.362, 12.856]beta[1285.164, 1450.556]epsilon[2286.245, 3002.213]sqrt(xc/eta)[2.114, 2.245]s= eta^0.5*xc^1.5/epsilon[0.44, 0.468]beta*xc/epsilon[23.665, 24.408]		percentile 50	\
beta/eta [109.801, 110.773] xc^2/epsilon [0.769, 0.897] xc [51.19, 57.922] ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	xc/eta	_	
xc^2/epsilon[0.769, 0.897]xc[51.19, 57.922]ExtH[6.67, 6.713]eta[11.362, 12.856]beta[1285.164, 1450.556]epsilon[2286.245, 3002.213]sqrt(xc/eta)[2.114, 2.245]s= eta^0.5*xc^1.5/epsilon[0.44, 0.468]beta*xc/epsilon[23.665, 24.408]			
xc[51.19, 57.922]ExtH[6.67, 6.713]eta[11.362, 12.856]beta[1285.164, 1450.556]epsilon[2286.245, 3002.213]sqrt(xc/eta)[2.114, 2.245]s= eta^0.5*xc^1.5/epsilon[0.44, 0.468]beta*xc/epsilon[23.665, 24.408]		·	
ExtH [6.67, 6.713] eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	-		
eta [11.362, 12.856] beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]			
beta [1285.164, 1450.556] epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]		- · ·	
epsilon [2286.245, 3002.213] sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]		•	
sqrt(xc/eta) [2.114, 2.245] s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]			
s= eta^0.5*xc^1.5/epsilon [0.44, 0.468] beta*xc/epsilon [23.665, 24.408]	-		
beta*xc/epsilon [23.665, 24.408]	_		
	_	·	
eta*xc/epsilon [0.214, 0.23]	beta*xc/epsilon	[23.665, 24.408]	
	eta*xc/epsilon	[0.214, 0.23]	

0.000355

k/beta

Fx=beta^2/eta*xc Dx =beta*epsilon/eta*xc^2 Pk=beta*k/epsilon Fk=beta^2/eta*k Dk =beta*epsilon/eta*k^2 Fk^2/Dk=beta^3/eta*epsilon epsilon/beta^2 k/beta k^2/epsilon best fit_MedianLifetime best fit_MaxLifetime data_MedianLifetime data_MaxLifetime	[1	[2644.954, 327 [133.514, 14 [0.208] [356947.316, 42849 095268.258, 124749 [55158.599, 6022 [0.00179, 0 [0.000344, 0.0 [8.32e-05, 0.0 0001, 79.350000000 [108.09, 20000000]	49.142] , 0.25] 95.558] 97.043] 21.037] .00211] 000389] 000109] 000001] 108.09] 75.51]	
<pre>xc/eta beta/eta xc^2/epsilon xc ExtH eta beta epsilon sqrt(xc/eta) s= eta^0.5*xc^1.5/epsilon beta*xc/epsilon eta*xc/epsilon Fx=beta^2/eta*xc Dx =beta*epsilon/eta*xc^2 Pk=beta*k/epsilon Fk=beta^2/eta*k Dk =beta*epsilon/eta*k^2 Fk^2/Dk=beta^3/eta*epsilon epsilon/beta^2 k/beta k^2/epsilon best fit_MedianLifetime</pre>]	[3.962, [108.838, 1:	11.753] 1.101] 57.922] 6.734] 13.675] 39.398] 42.397] 2.314] 0.482] 25.174] 0.241] 10.133] 57.629] 0.274] 95.558] 39.076] 48.103] .00229] .000413] .000843] .000001]	
best fit_MaxLifetime data_MedianLifetime data_MaxLifetime	•	[108.09, 1 [74.51, [106.0,	108.09] 75.51]	
	max_likelihood	mode overall		
xc/eta	4.954	4.954		
beta/eta	109.938	109.938		
xc^2/epsilon	1.037	1.037		
ХС	65.181	65.181		
ExtH	6.733	6.733		

eta	13.157	13.157
beta	1446.407	1446.407
epsilon	4096.74	4096.74
sqrt(xc/eta)	2.226	2.226
s= eta^0.5*xc^1.5/epsilon	0.466	0.466
beta*xc/epsilon	23.013	23.013
eta*xc/epsilon	0.209	0.242
Fx=beta^2/eta*xc	2439.613	4924.89
<pre>Dx =beta*epsilon/eta*xc^2</pre>	106.011	174.766
Pk=beta*k/epsilon	0.177	0.177
Fk=beta^2/eta*k	318031.183	318031.183
<pre>Dk =beta*epsilon/eta*k^2</pre>	1801554.676	1801554.676
Fk^2/Dk=beta^3/eta*epsilon	56142.528	56142.528
epsilon/beta^2	0.00196	0.00196
k/beta	0.000346	0.000346
k^2/epsilon	0.000061	0.000061
best fit_MedianLifetime	78.84	NaN
best fit_MaxLifetime	108.09	NaN
data_MedianLifetime	75.0	NaN
data_MaxLifetime	106.0	NaN

5 5. Fits of simulations to data

best params is the sample with highest likelihood. mode trans is the 4D posterior mode in the transformed space of $x_c/\eta,\,\beta/\eta,\,x_c^2/\epsilon,\,x_c$

