# Fitting Distribution Dunctions to Empirical Dustribution of Paramter Estimates

## **Model Comparison**

#### Drift Rate v

Distribution Function	AIC	wAIC
normal	9120.41	0
t	8666.28	1
norm mix	8697.38	0

#### Boundary Separation a

Distribution Function	AIC	wAIC
truncated normal	1899.11	0.00
t	1536.66	0.00
gamma	1641.12	0.00
lognormal	1657.21	0.00
weibull	1797.44	0.00
tnorm & tnorm	1536.34	0.00
gamma & gamma	1516.80	0.76
gamma & tnorm	1522.49	0.04
lognormal & tnorm	1519.45	0.20

#### Mean start point z

AIC	wAIC
229.09	0.00
-7.78	0.01
70.23	0.00
22.23	0.00
161.98	0.00
42.23	0.00
-12.78	0.10
-12.42	0.08
-17.06	0.82
	229.09 -7.78 70.23 22.23 161.98 42.23 -12.78 -12.42

#### Bias z

Distribution Function	AIC	wAIC
truncated normal	-377.80	0
truncated t	-537.16	1

#### Mirrored Bias z

AIC	wAIC
-730.71	0
-915.98	1
	-730.71

#### Non-decision time Ter

Distribution Function	AIC	wAIC
truncated normal	263.34	0
t	-775.25	1
gamma	-258.43	0
lognormal	22.23	0
weibull	30.47	0
tnorm & tnorm	-743.71	0
gamma & gamma	-573.36	0
gamma & tnorm	-755.81	0
lognormal & tnorm	-730.15	0

#### across-trial variability drift rate ${\rm sv}$

Distribution Function	AIC	wAIC
truncated normal	637.96	0.11
t	640.67	0.03
gamma	677.25	0.00
lognormal	767.91	0.00
weibull	654.96	0.00
tnorm & tnorm	636.73	0.21
gamma & gamma	637.89	0.12
gamma & tnorm	635.69	0.35
lognormal & tnorm	636.93	0.19

### relative across-trial variability ${\bf sz}$

AIC	wAIC
-146.66 -144.61	0.74 0.26
	-146.66

## across-trial variability non-decision time ster

AIC	wAIC
263.34	0
-775.25	1
-258.43	0
22.23	0
30.47	0
-743.71	0
-573.36	0
-755.81	0
-730.15	0
	263.34 -775.25 -258.43 22.23 30.47 -743.71 -573.36 -755.81