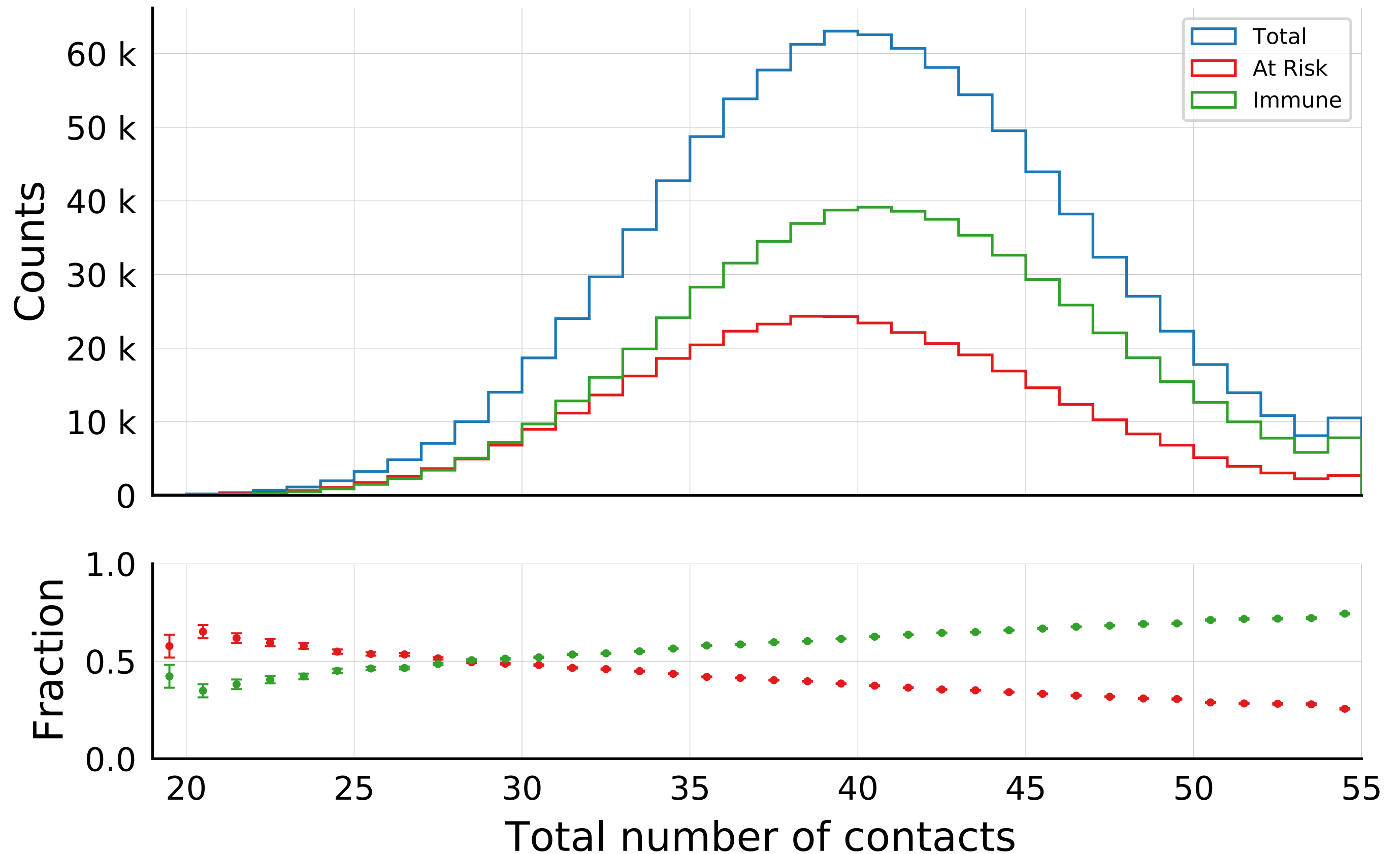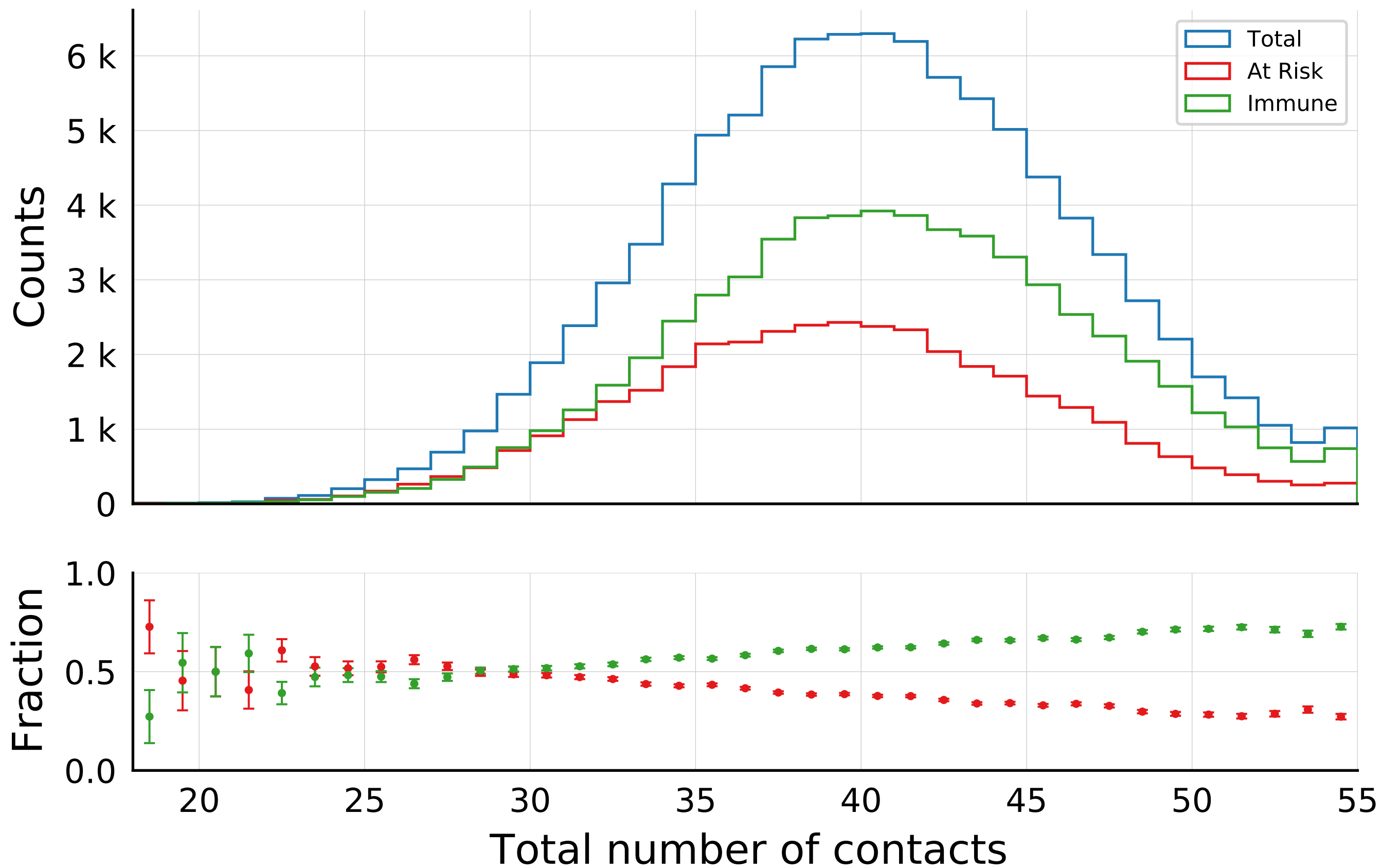$N_{\text{tot}} = 1M,\ N_{\text{init}} = 100,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
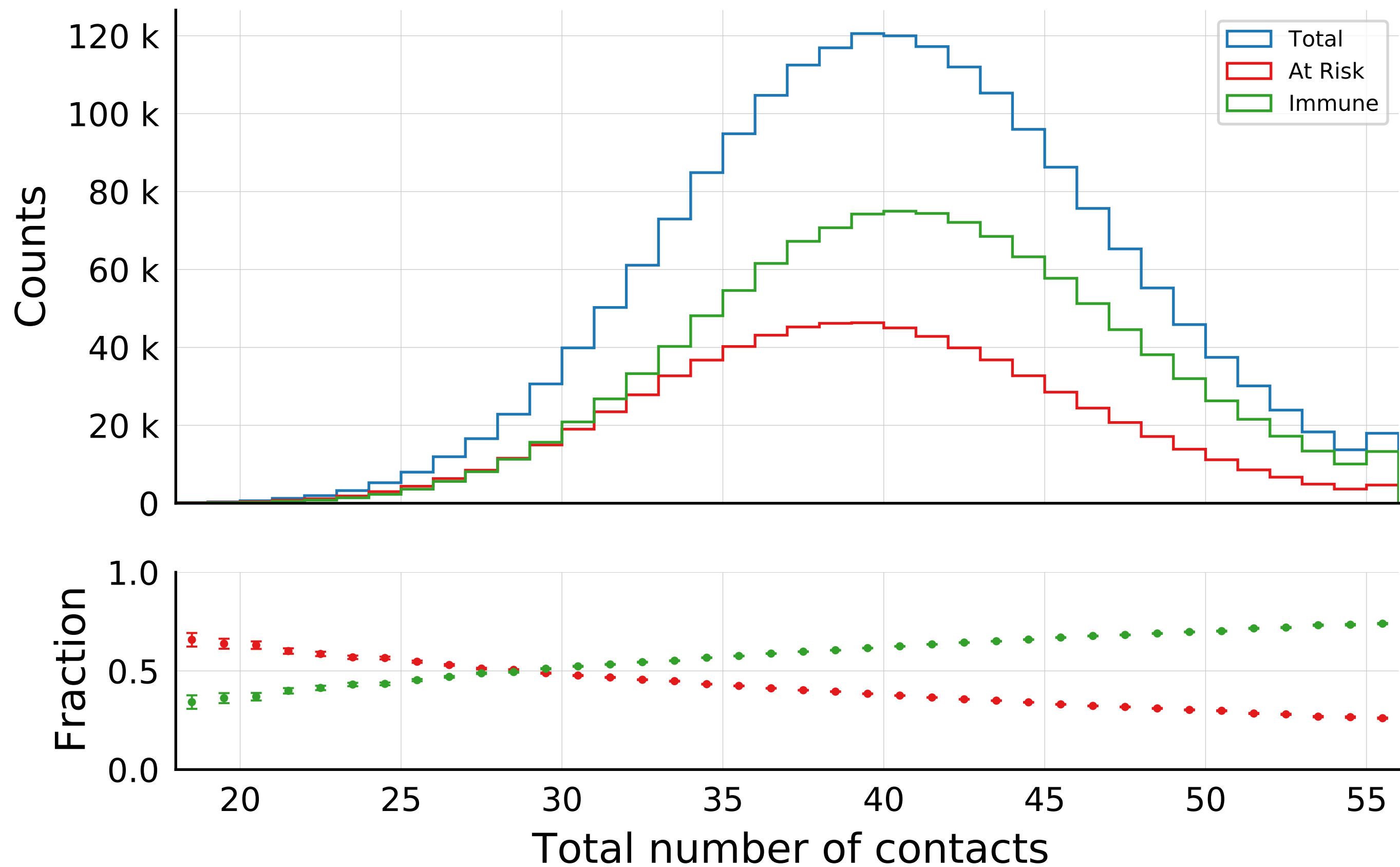$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$
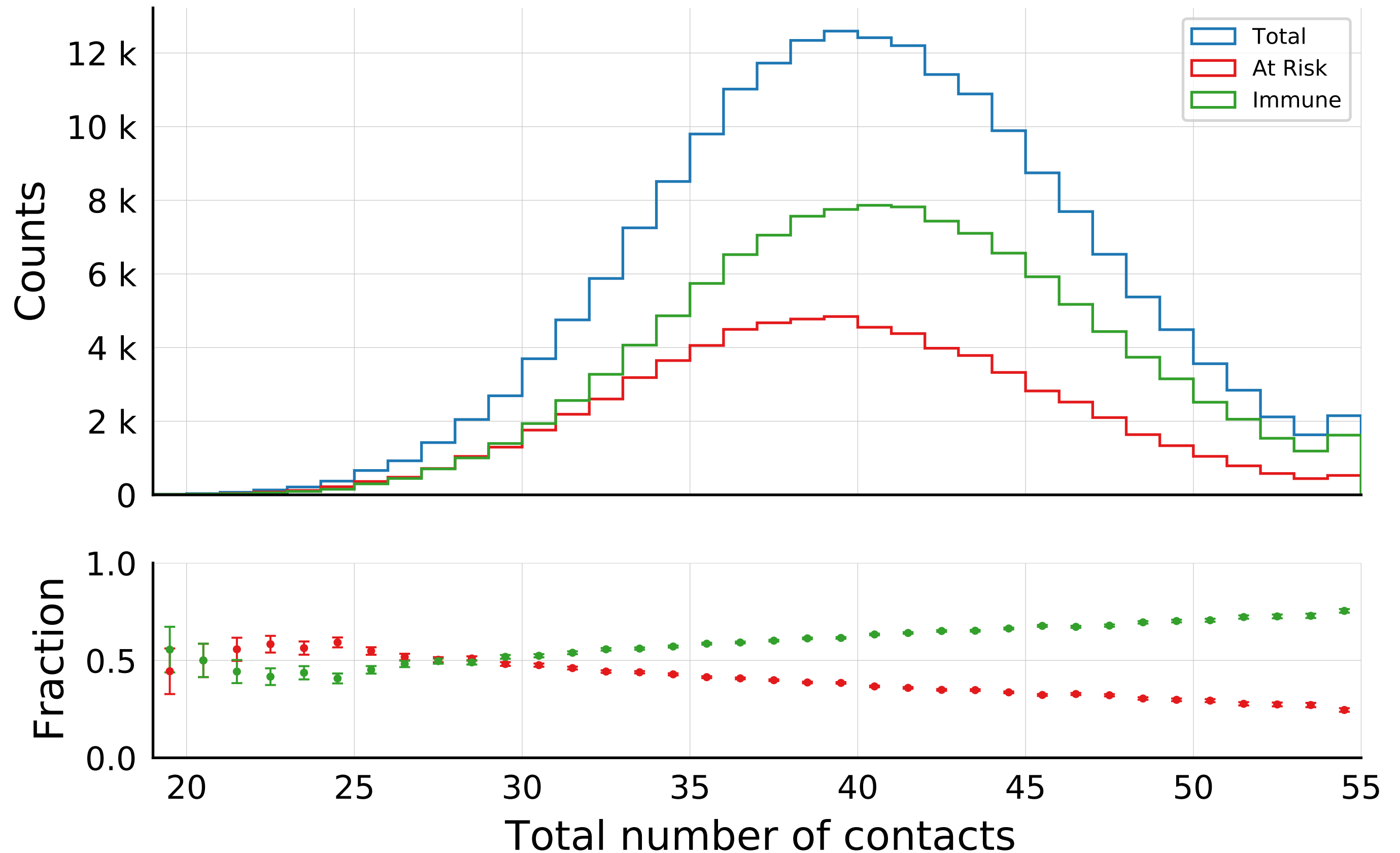
$N_{\text{tot}} = 100K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 2M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 200K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
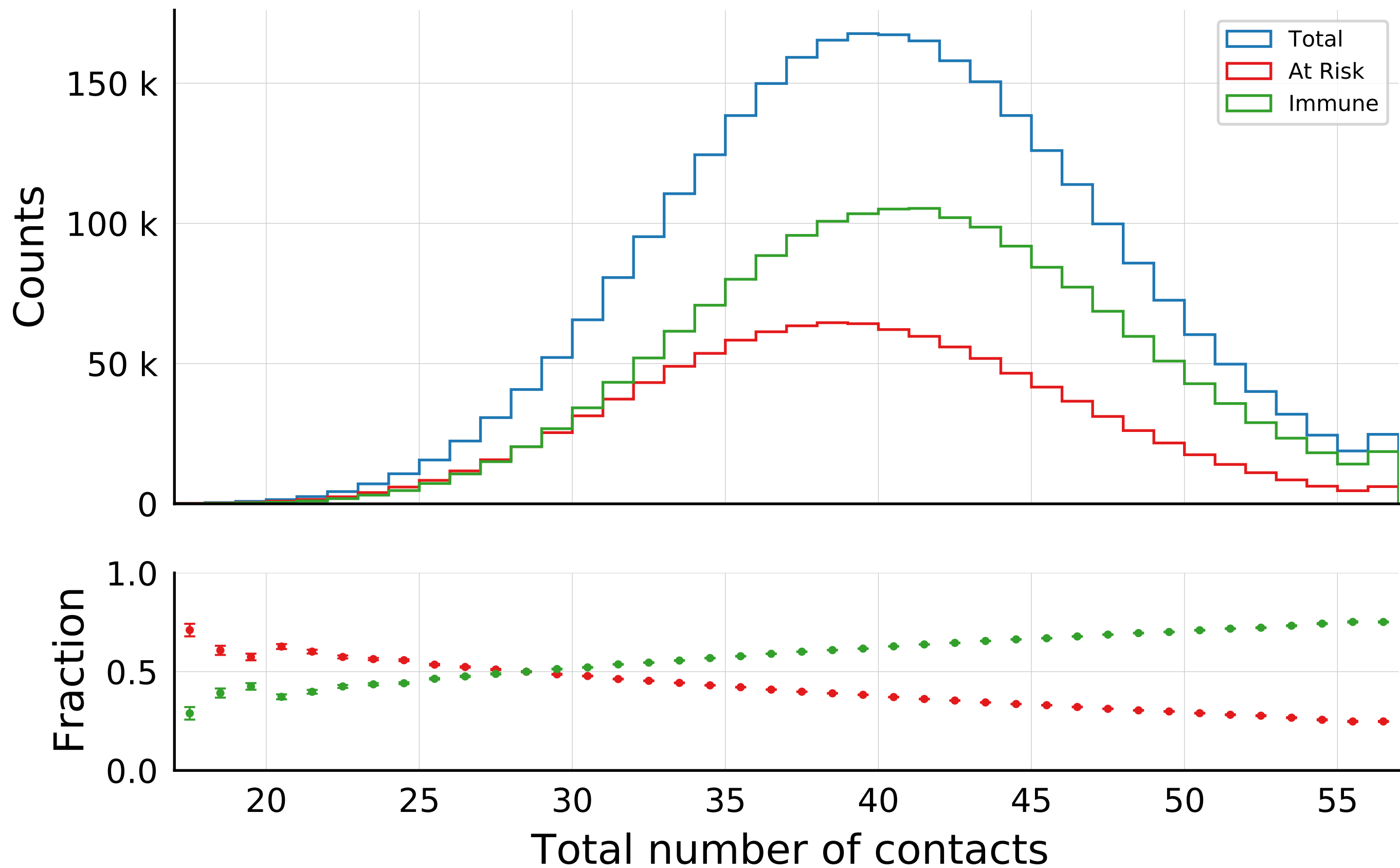$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 3M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
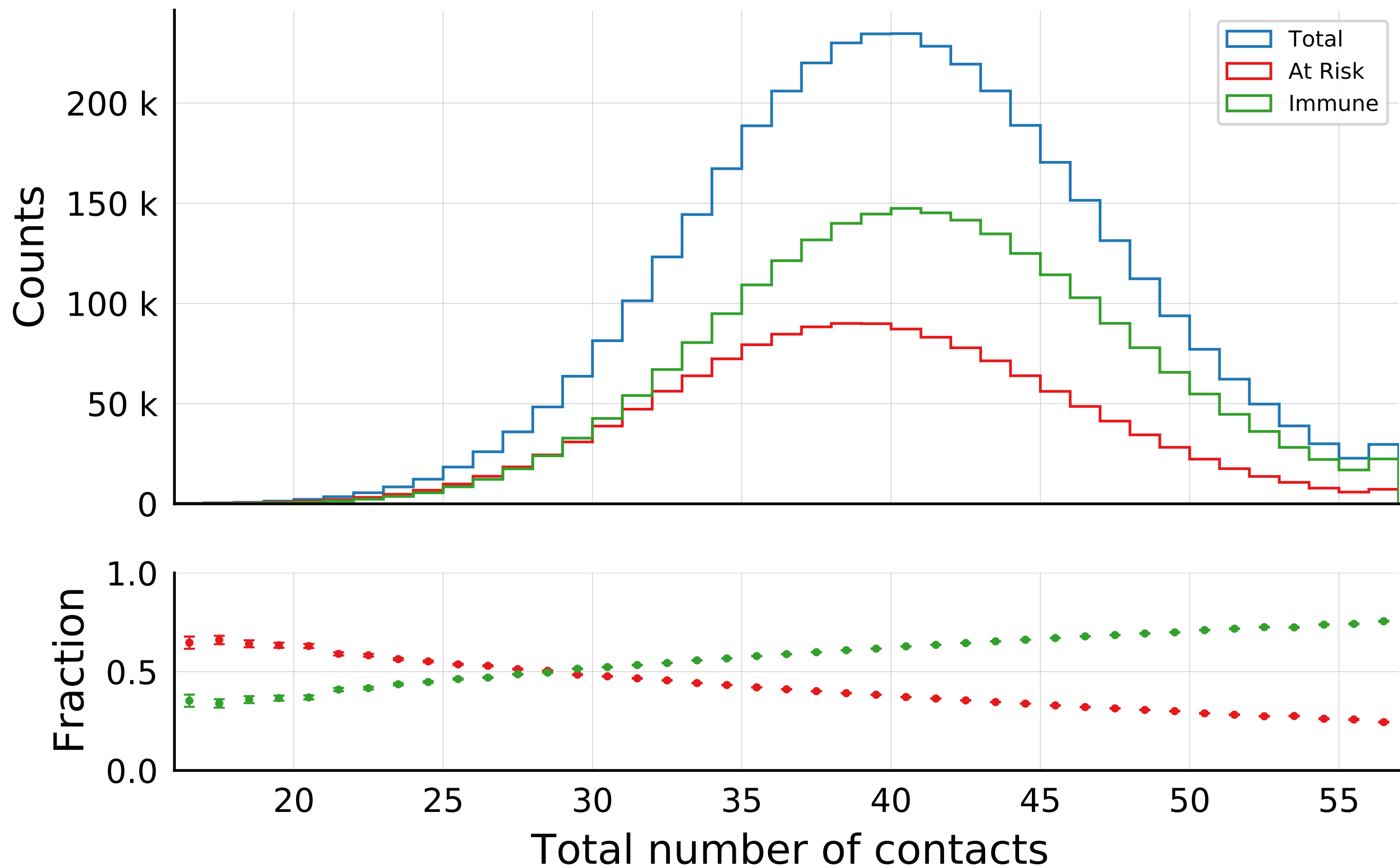$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_\text{tot} = 4M$, $N_\text{init} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
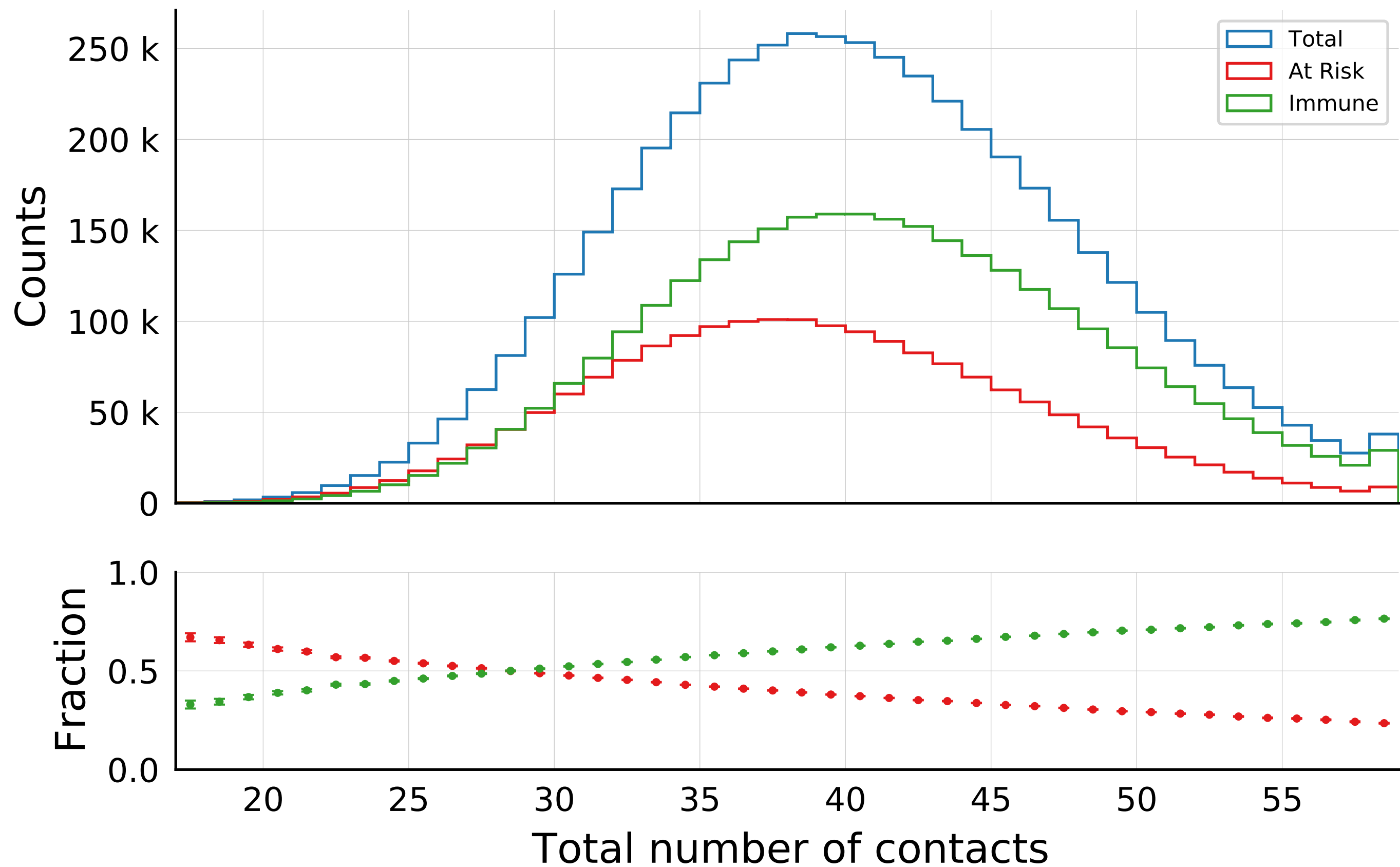$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 5M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
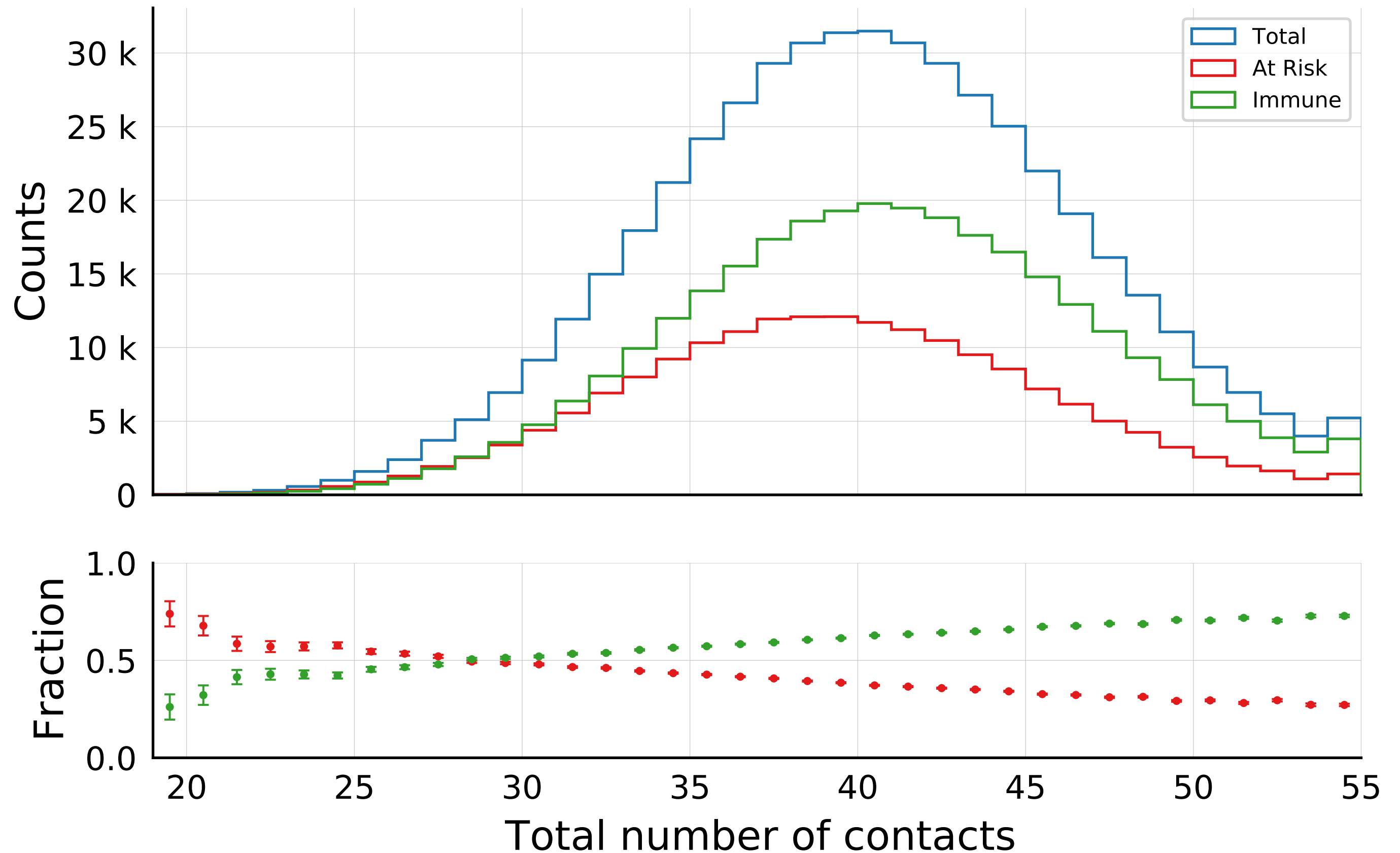$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 500K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.005,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
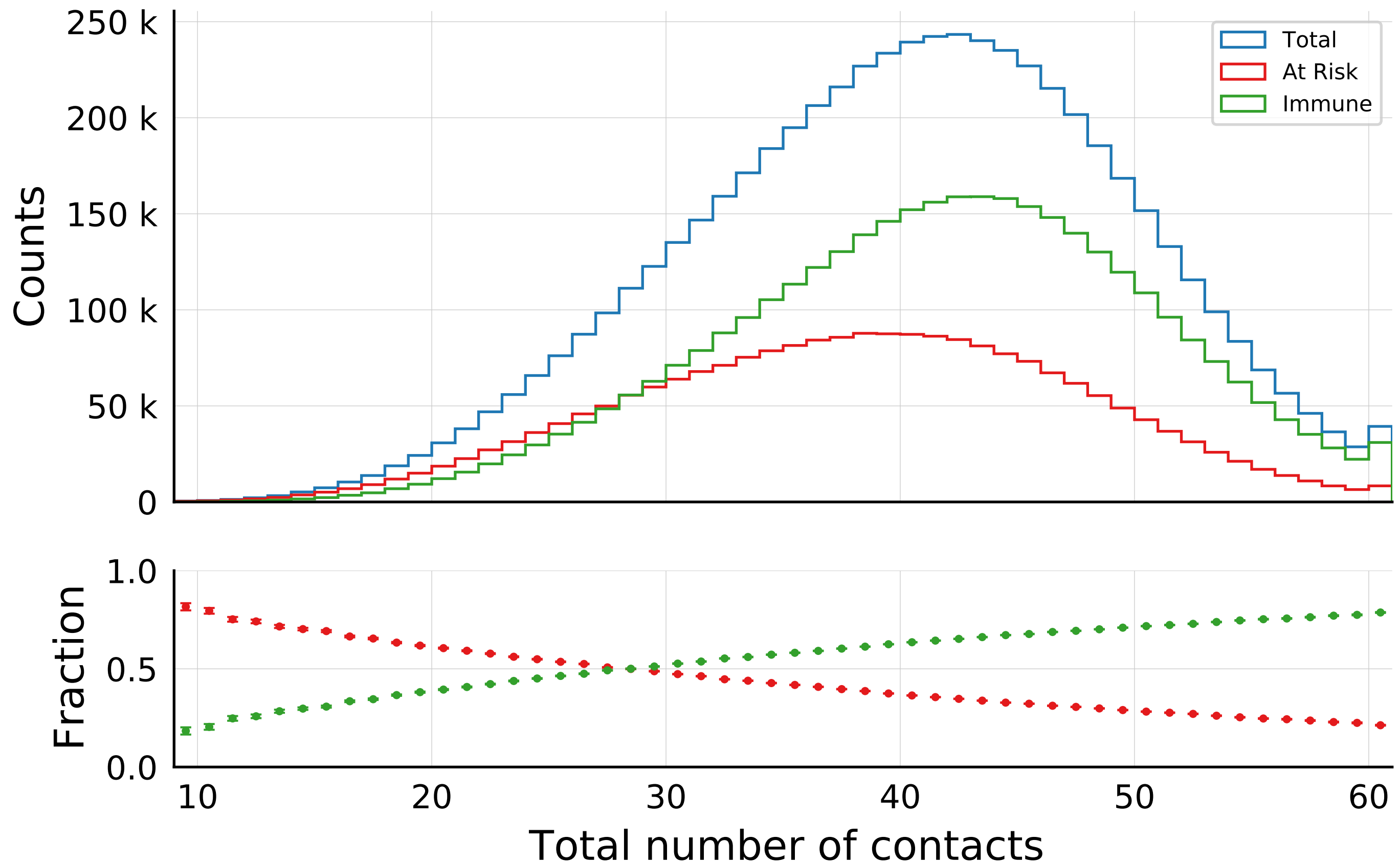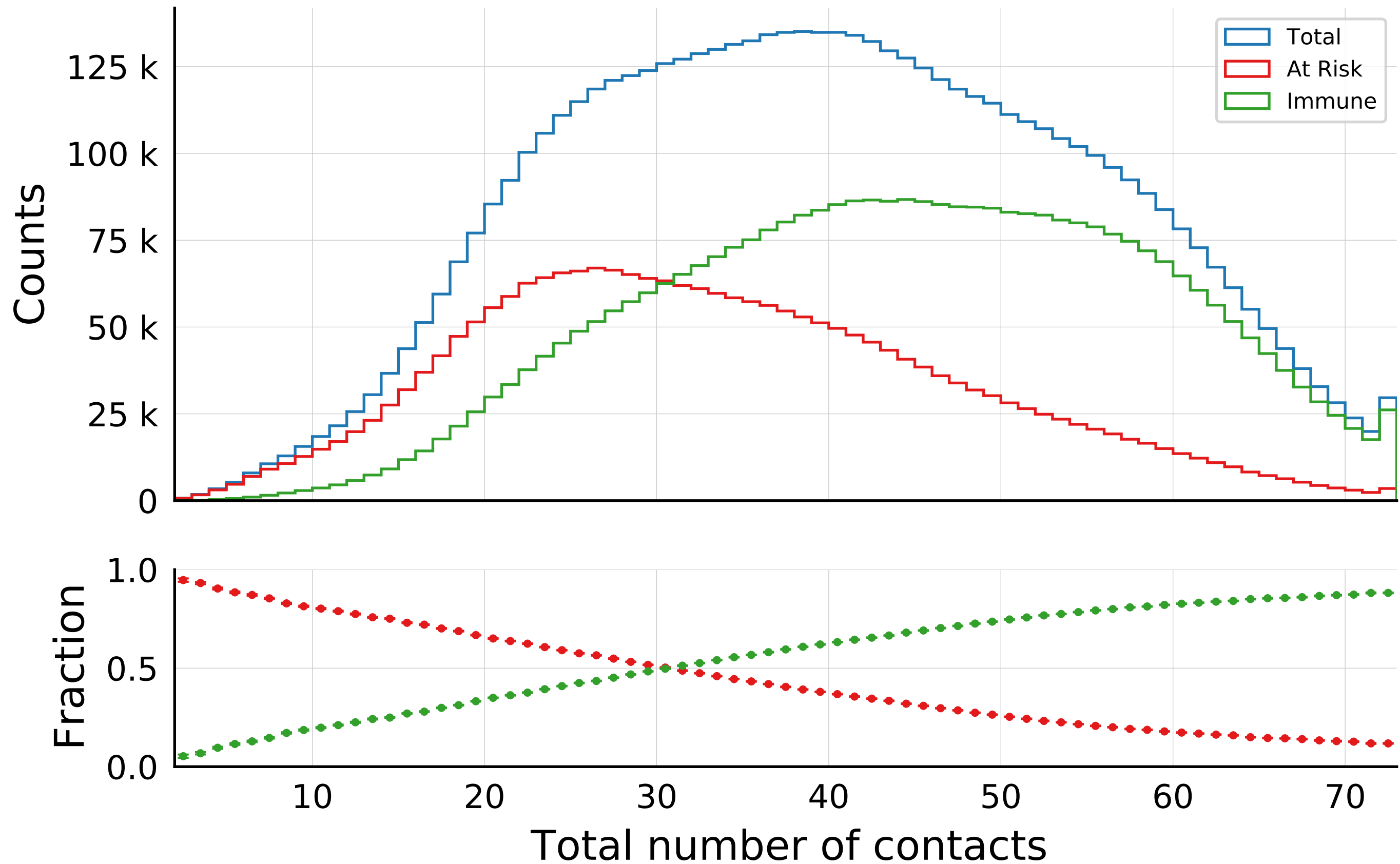$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
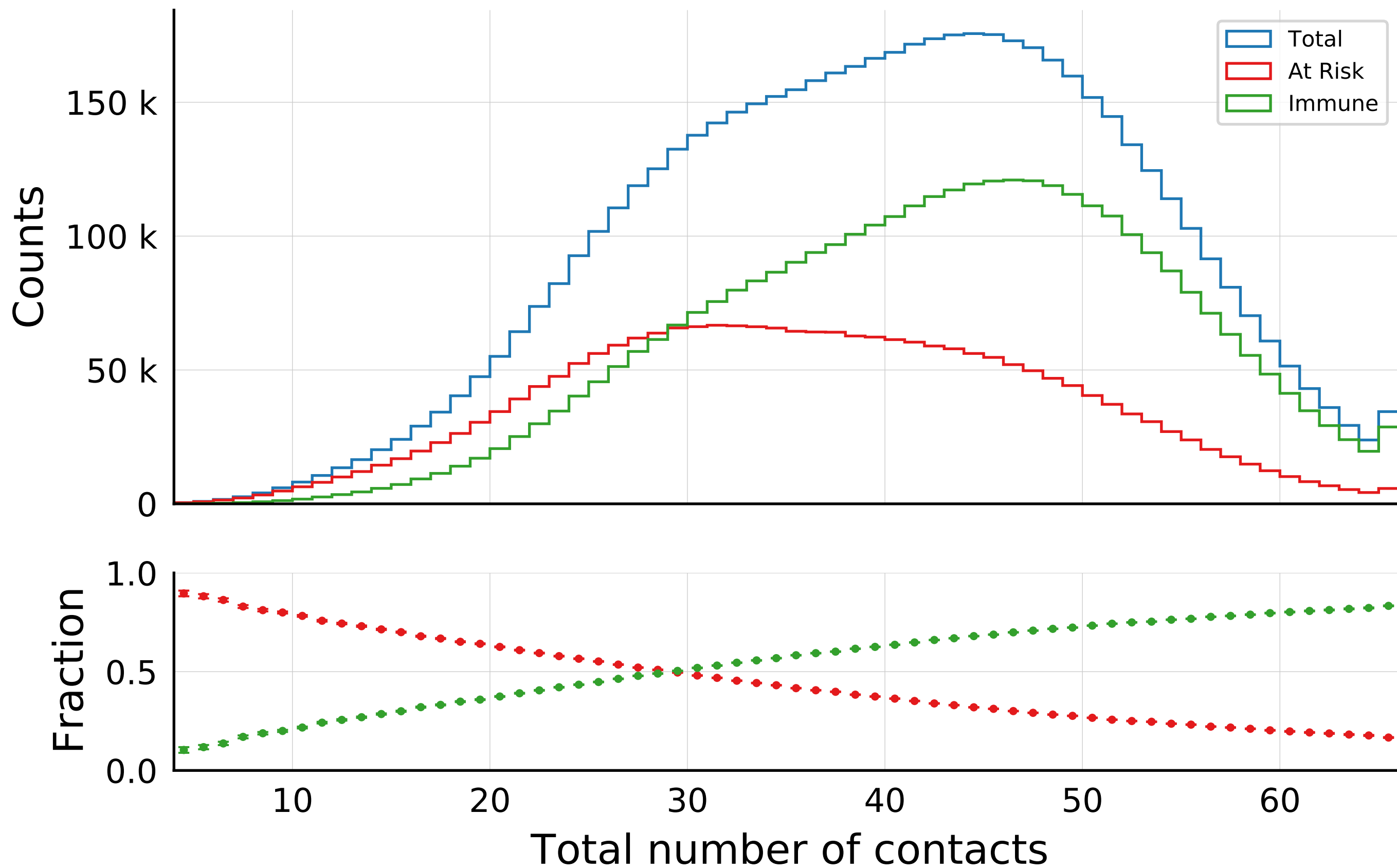$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.025,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
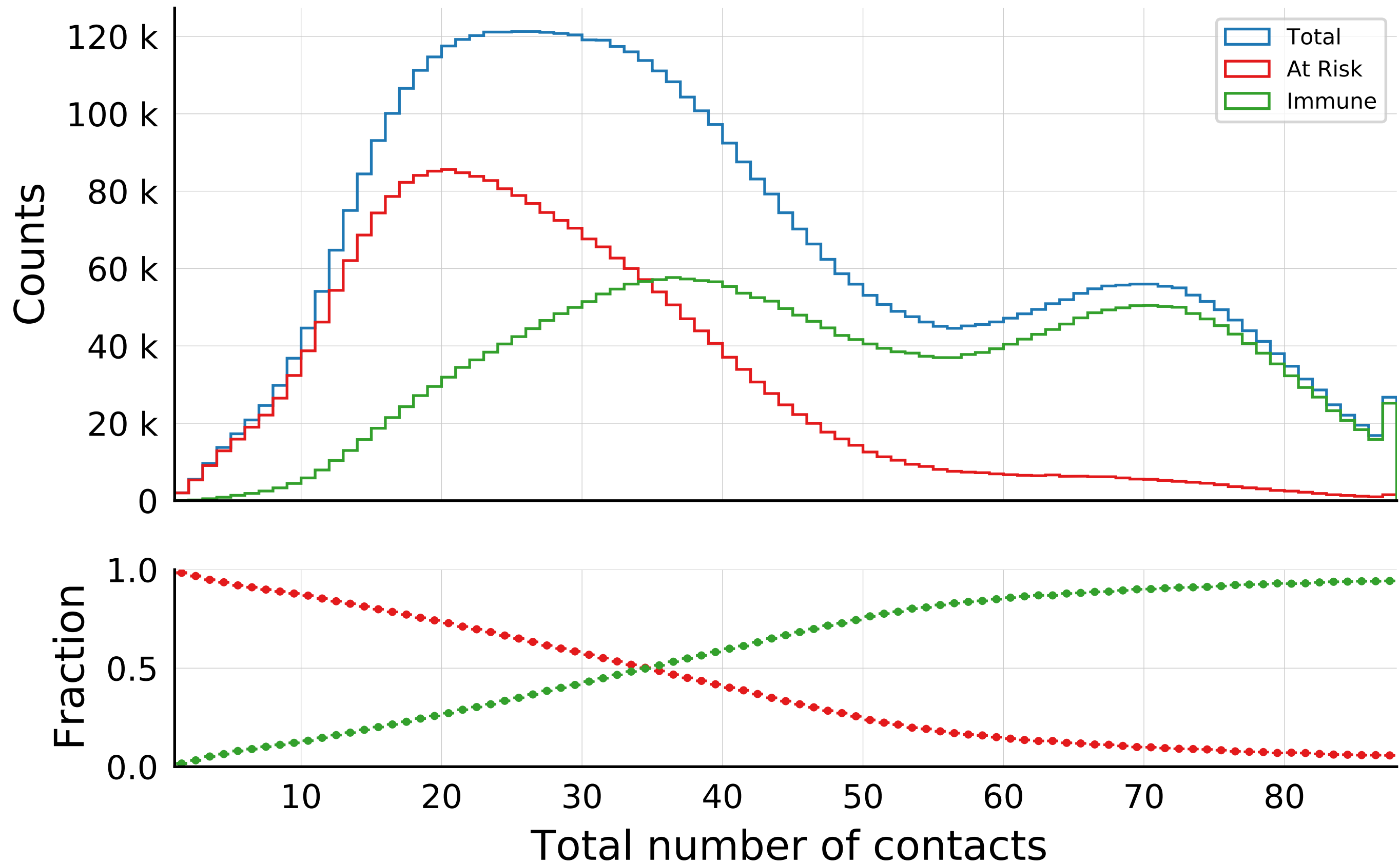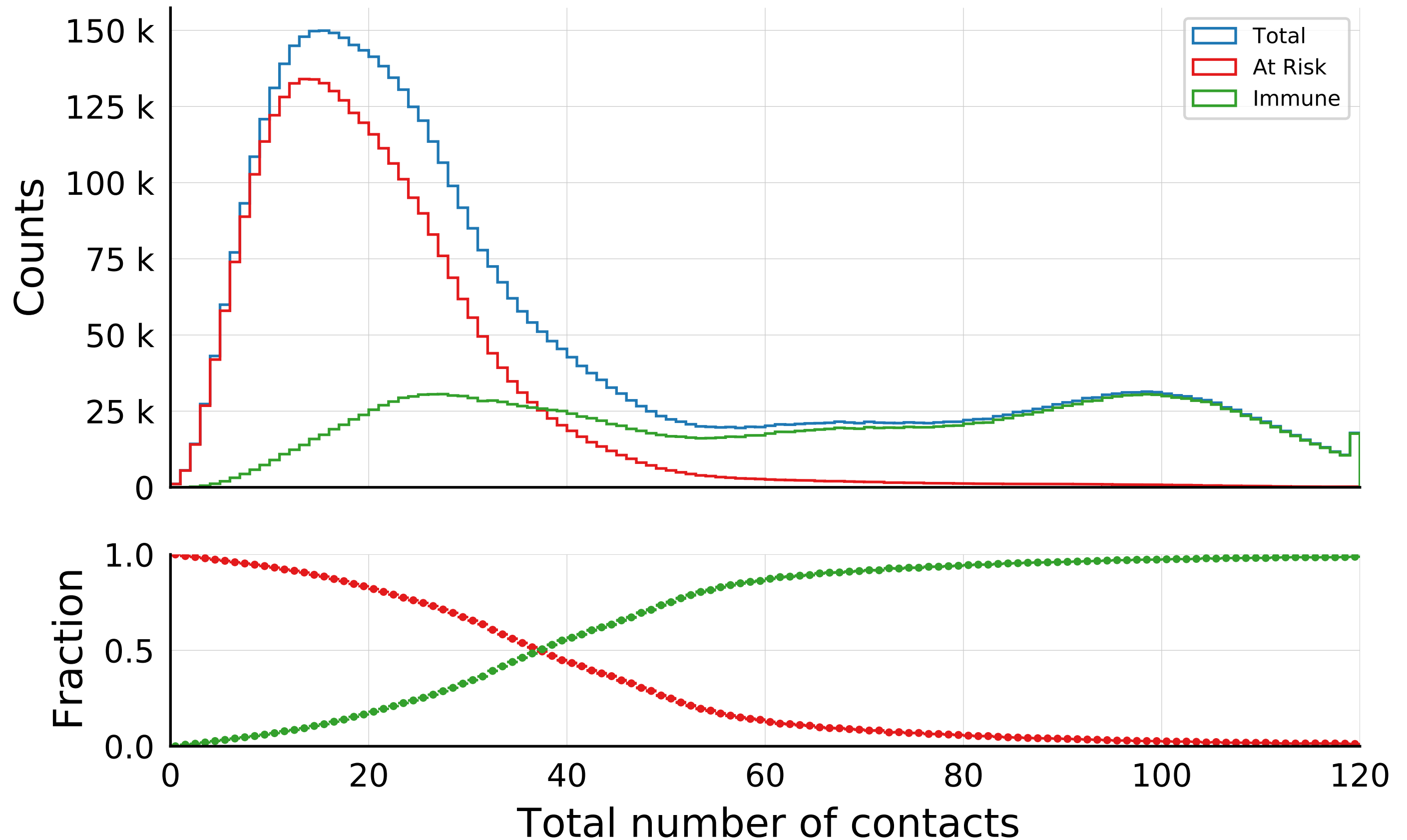$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 5.8M, \ N_{\text{init}} = 100, \ \rho = 0.05, \ \epsilon_\rho = 0.04, \ \mu = 40.0, \ \sigma_\mu = 0.0, \ \beta = 0.01, \ \sigma_\beta = 0.0$
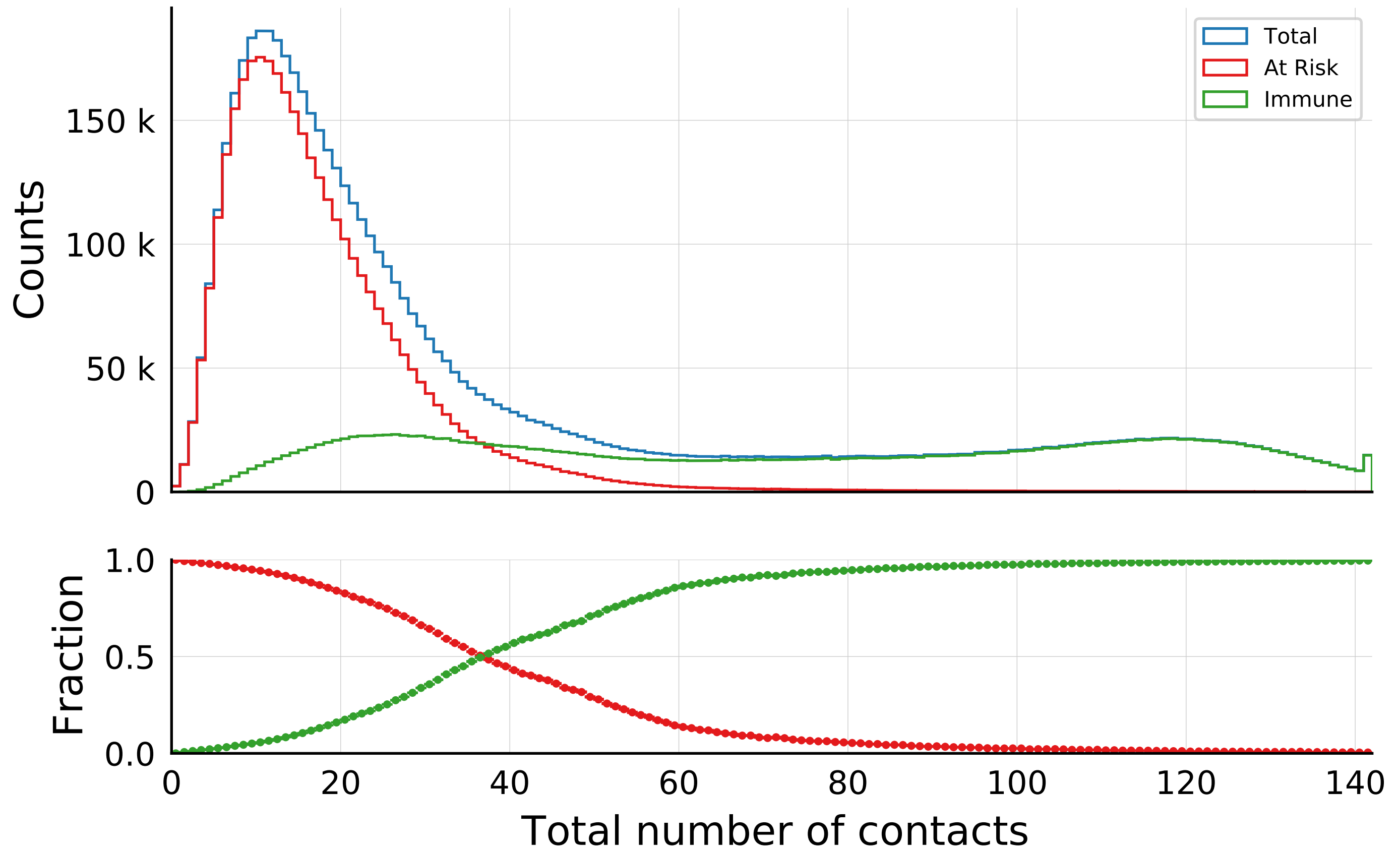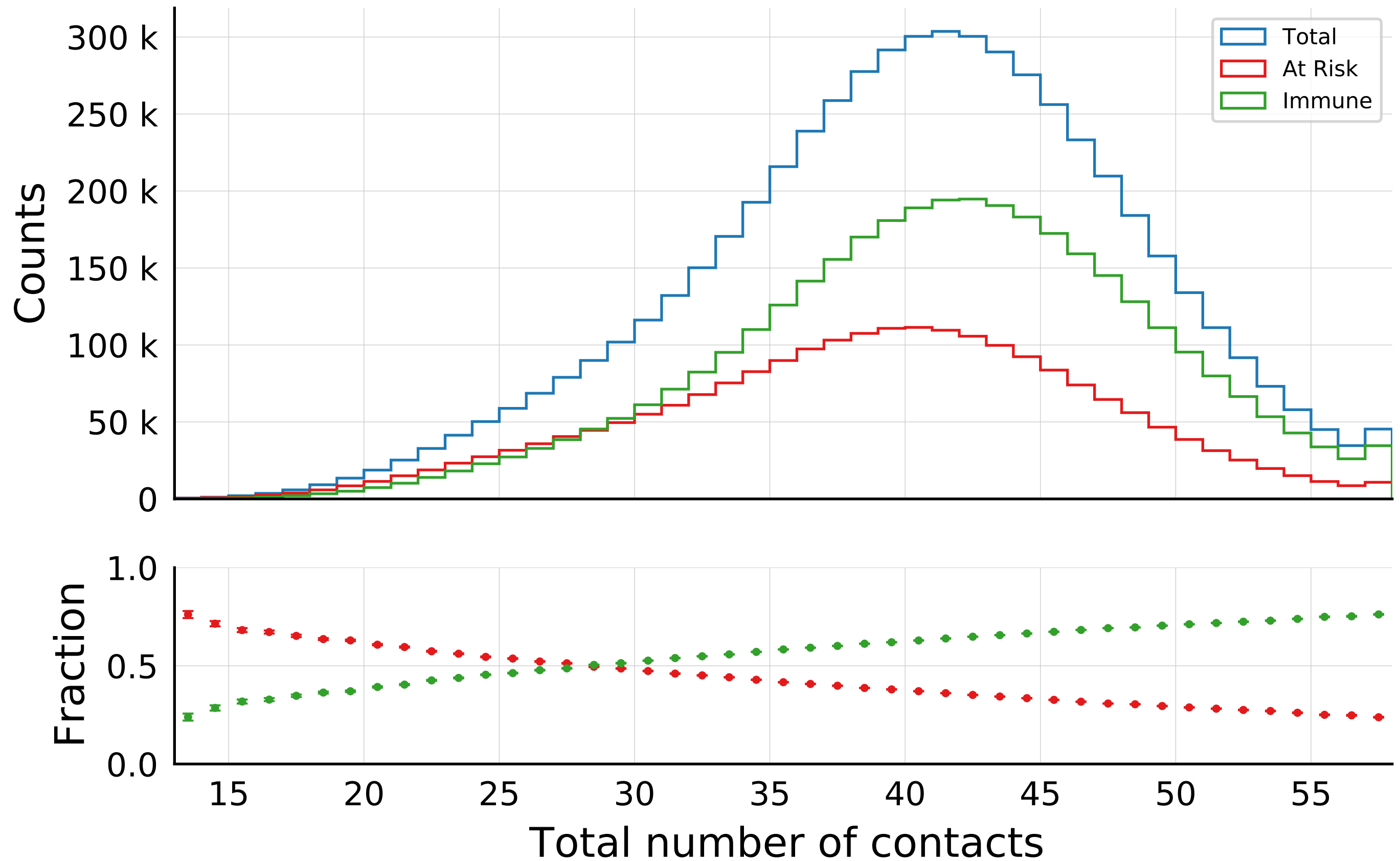$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.075,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
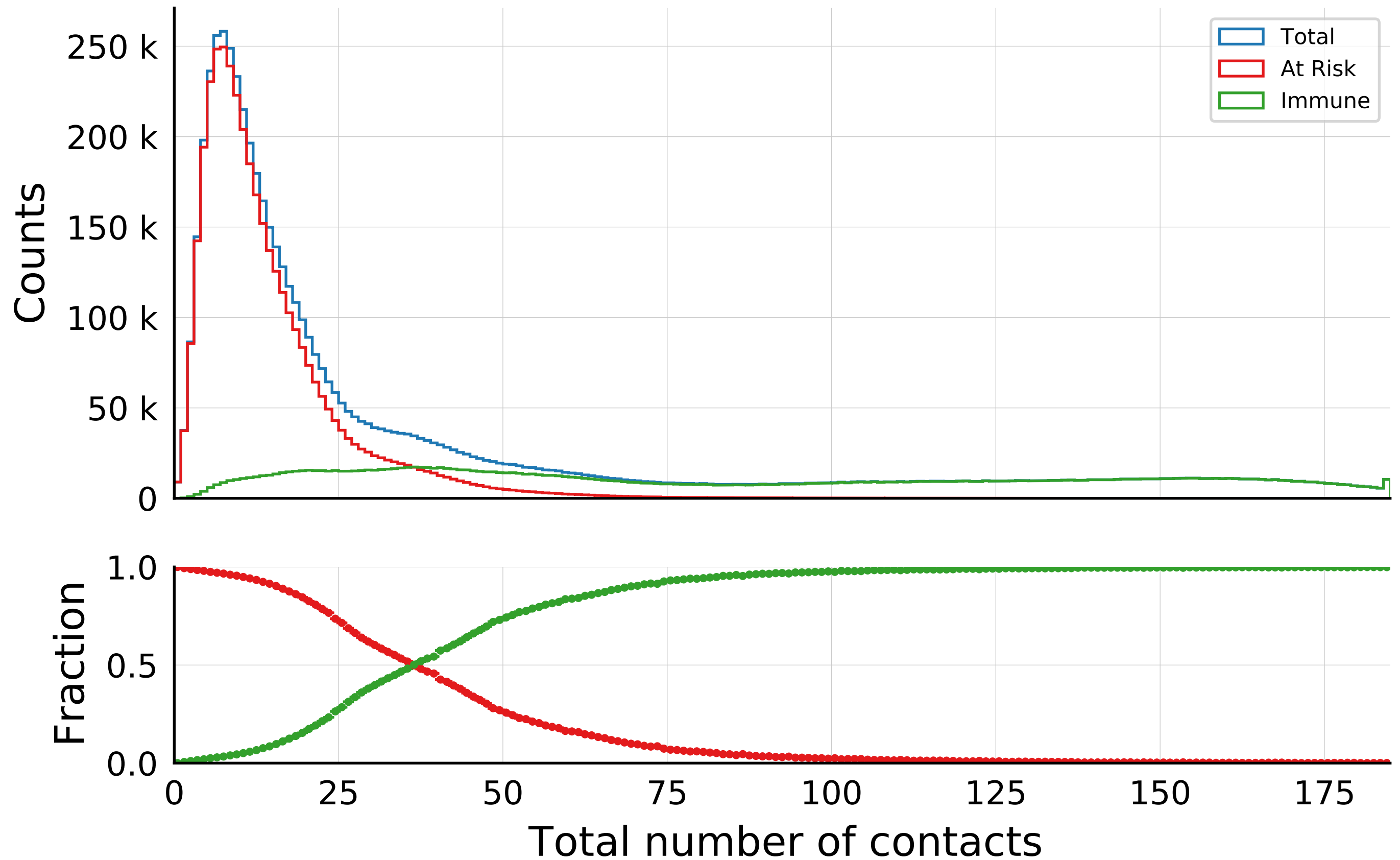$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.15,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
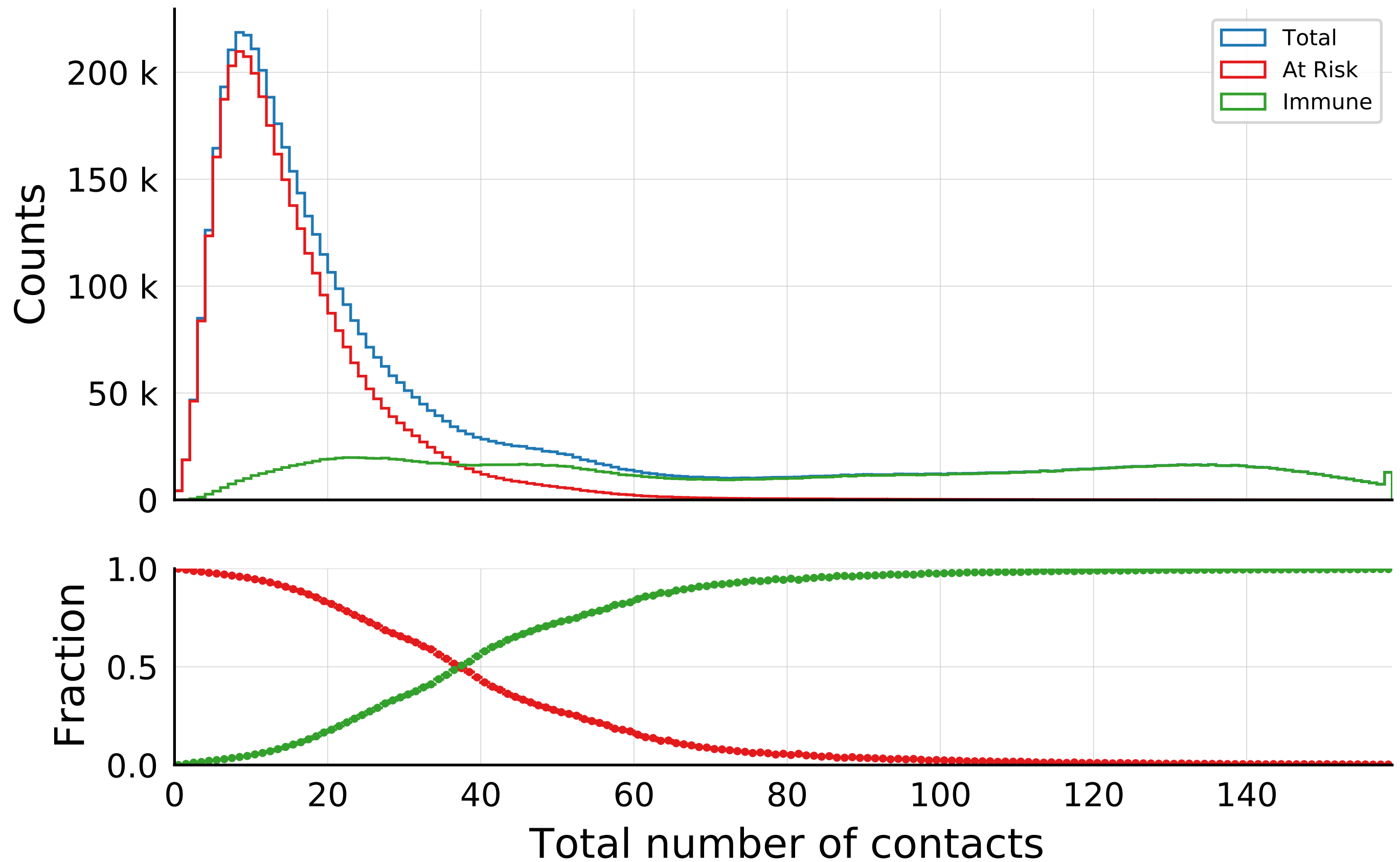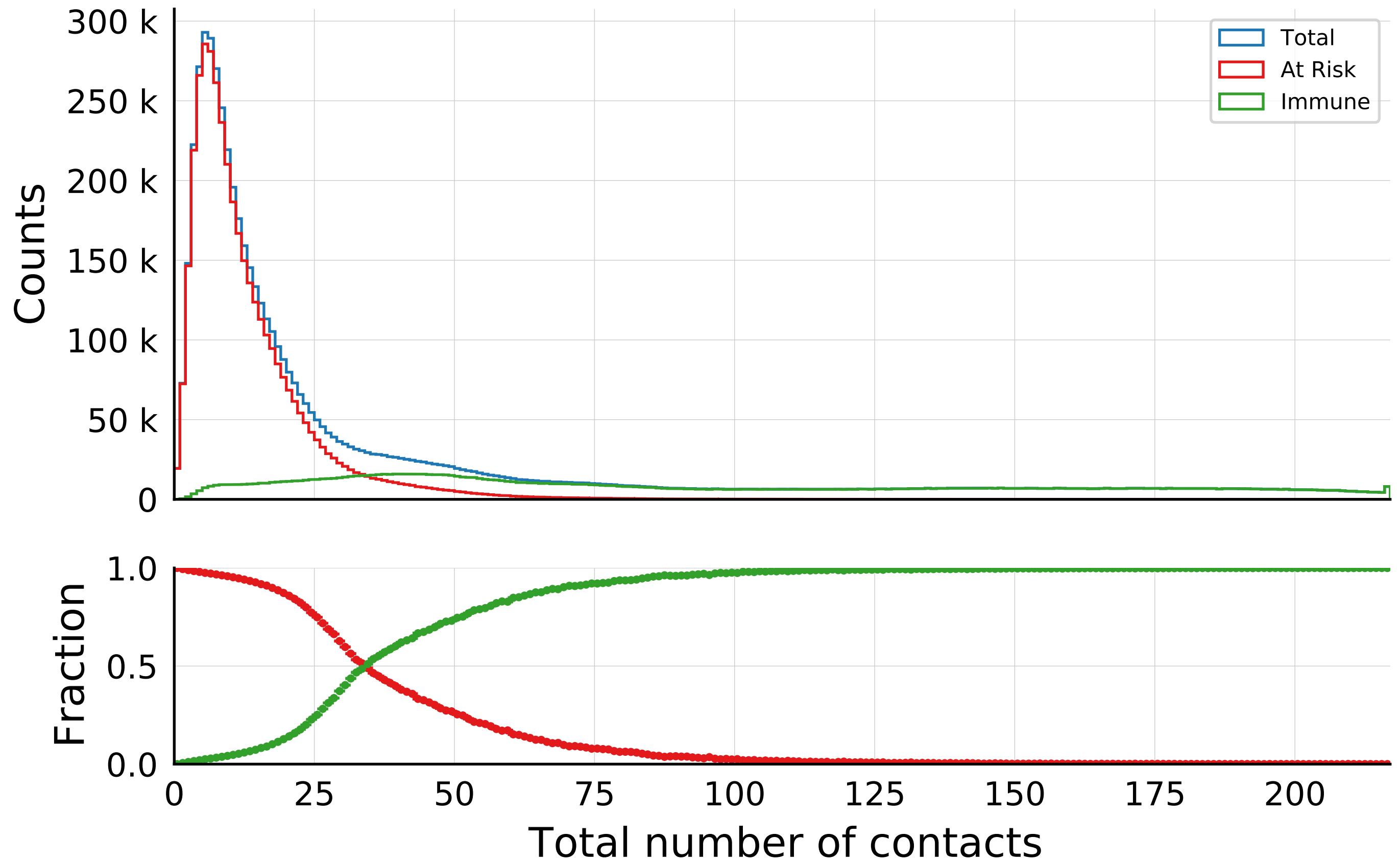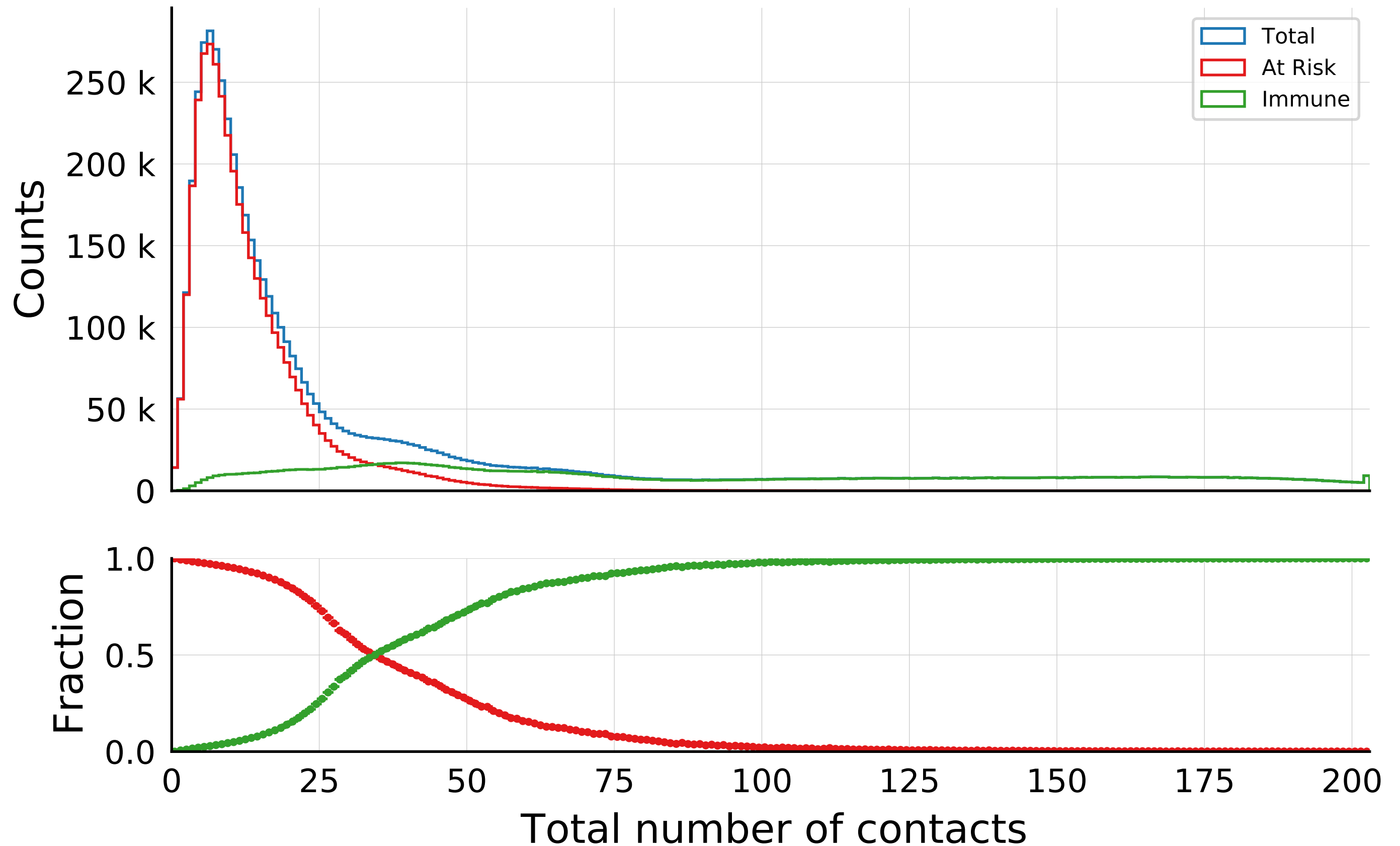$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$
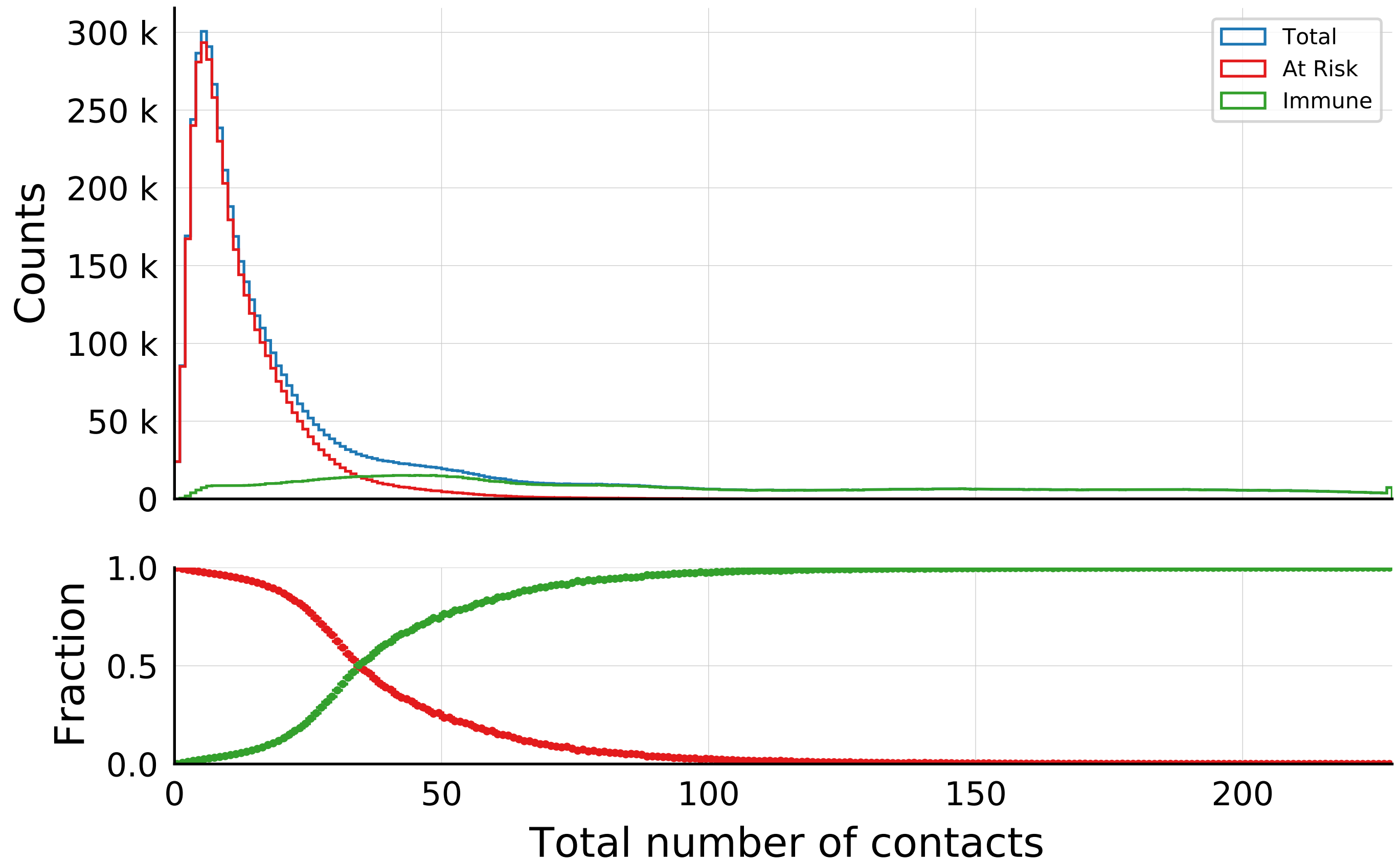
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 5.8M, \; N_{\text{init}} = 100, \; \rho = 0.2, \; \epsilon_\rho = 0.04, \; \mu = 40.0, \; \sigma_\mu = 0.0, \; \beta = 0.01, \; \sigma_\beta = 0.0$
$\lambda_E = 1.0, \; \lambda_I = 1.0, \; \text{algo} = 2, \; ID = 0$

$N_{\text{tot}} = 5.8M, \ N_{\text{init}} = 100, \ \rho = 0.3, \ \epsilon_\rho = 0.04, \ \mu = 40.0, \ \sigma_\mu = 0.0, \ \beta = 0.01, \ \sigma_\beta = 0.0$
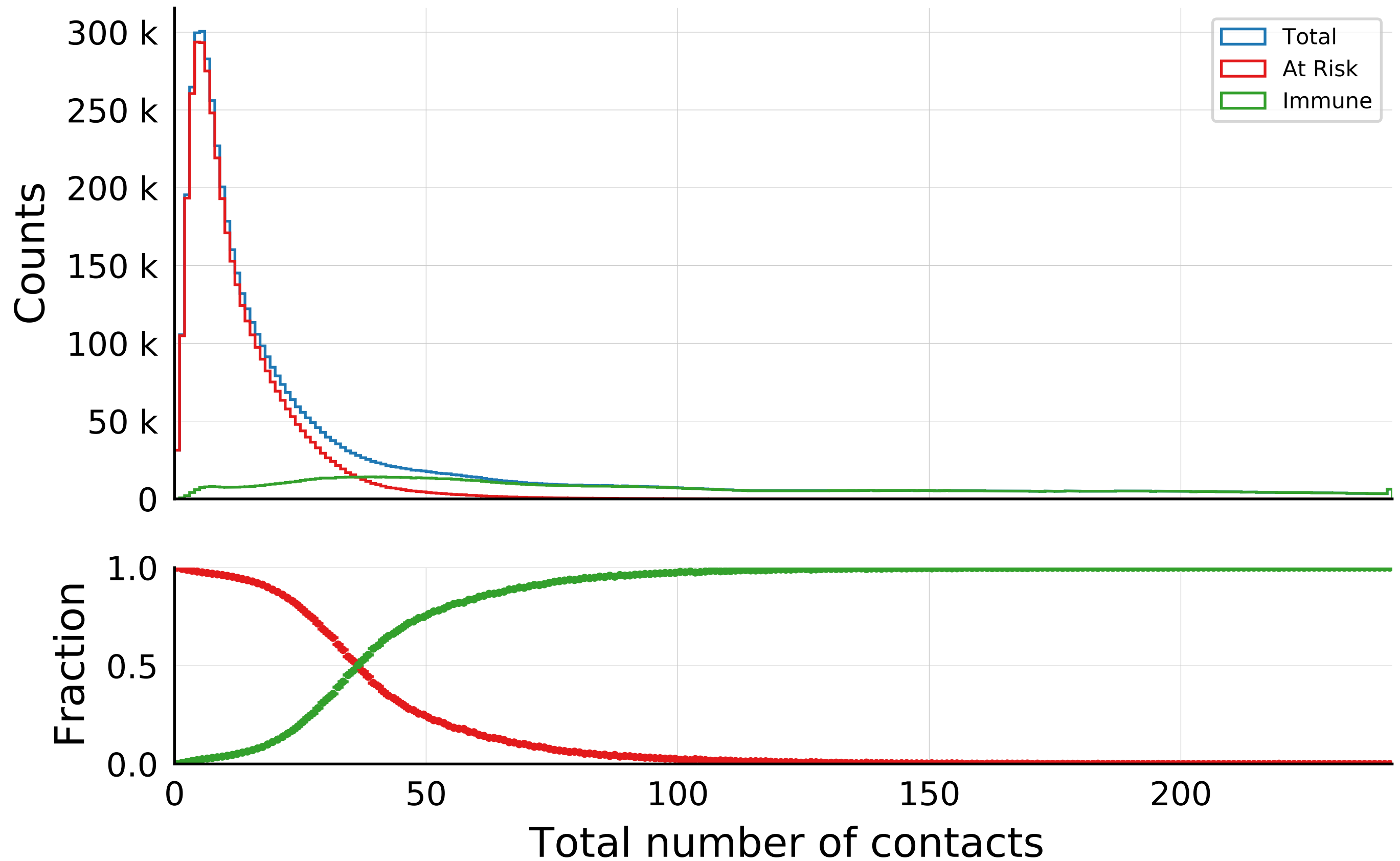$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 5.8M, \ N_{\text{init}} = 100, \ \rho = 0.4, \ \epsilon_{\rho} = 0.04, \ \mu = 40.0, \ \sigma_{\mu} = 0.0, \ \beta = 0.01, \ \sigma_{\beta} = 0.0$
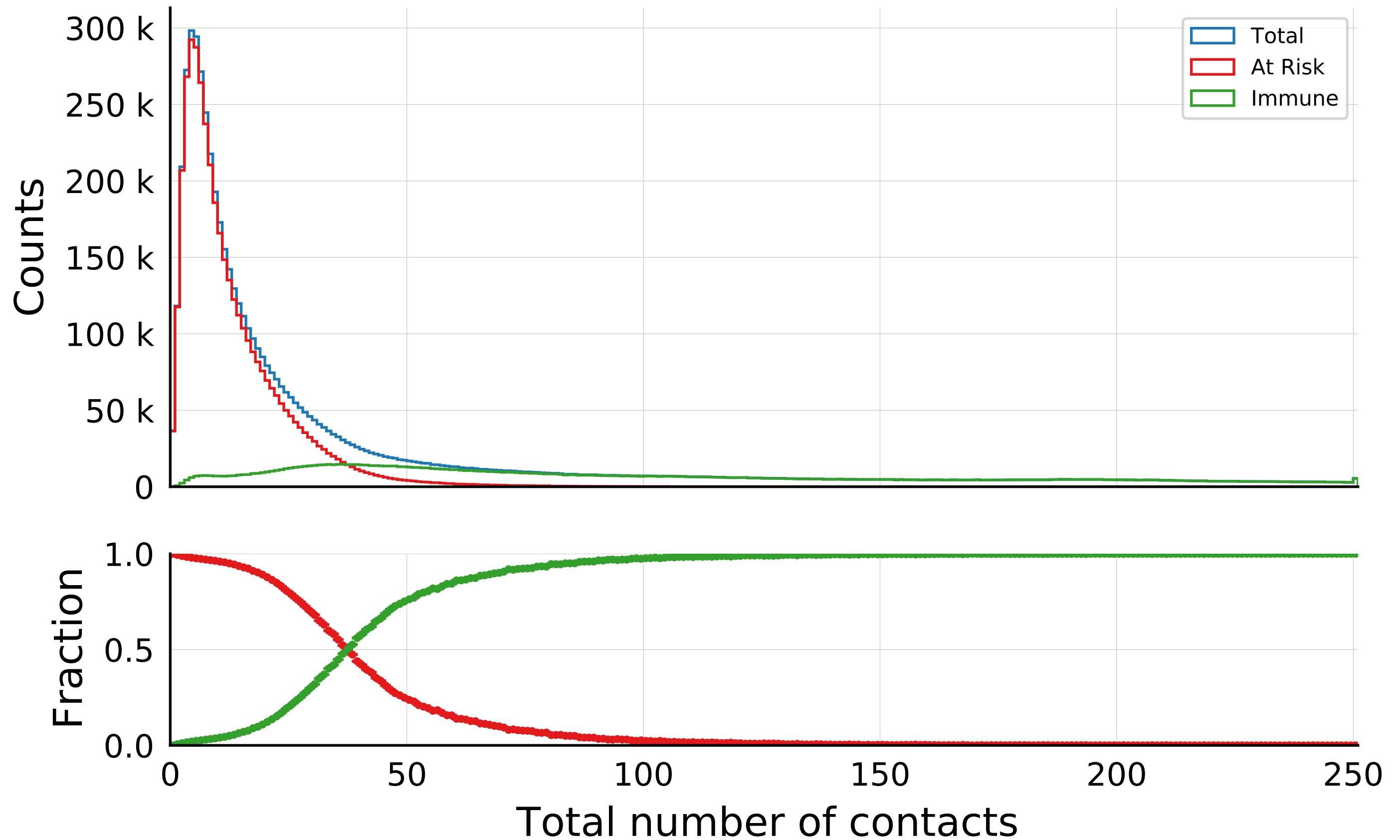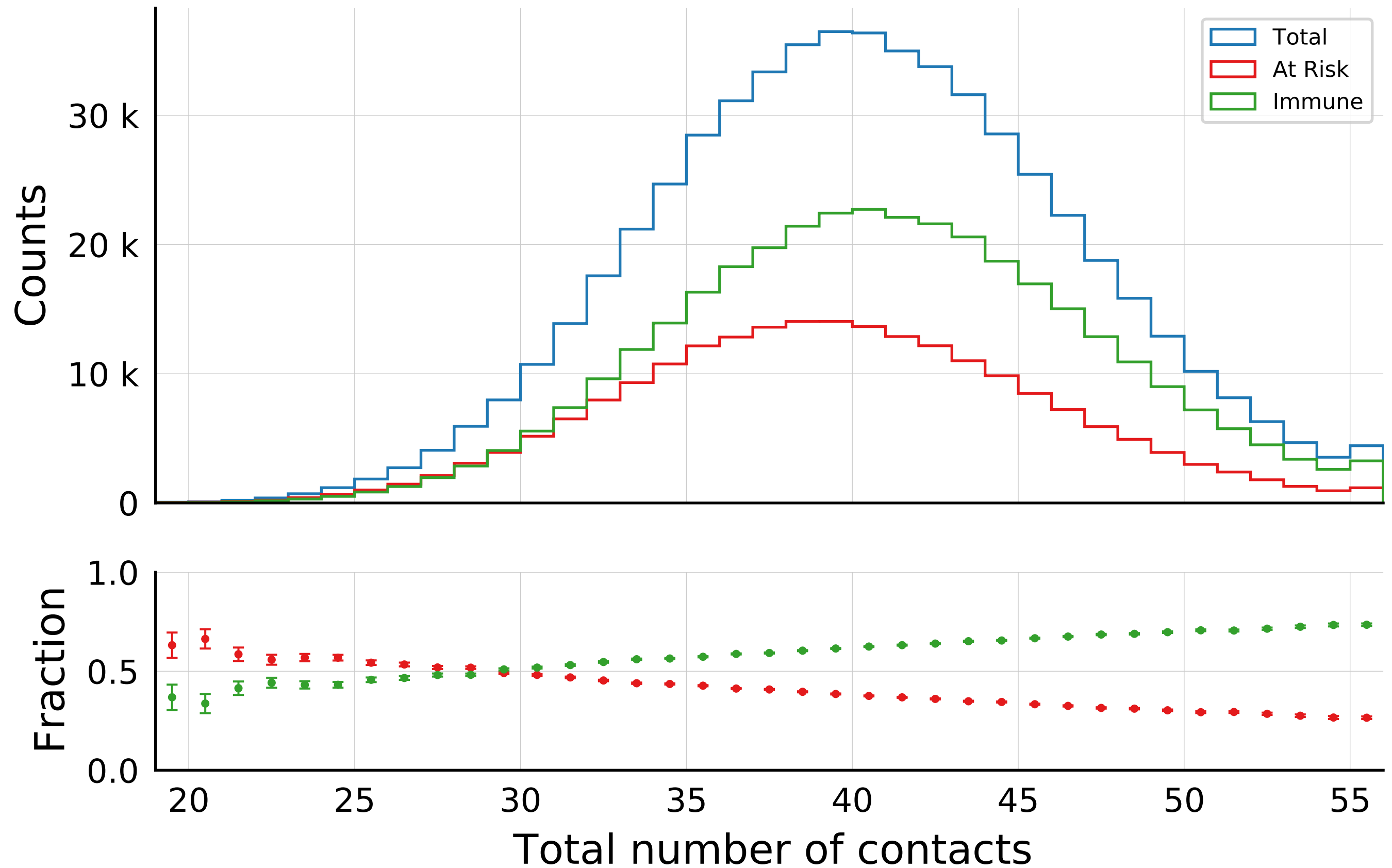$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.5$, $\epsilon_{\rho} = 0.04$, $\mu = 40.0$, $\sigma_{\mu} = 0.0$, $\beta = 0.01$, $\sigma_{\beta} = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\mathrm{tot}} = 580K$, $N_{\mathrm{init}} = 1K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
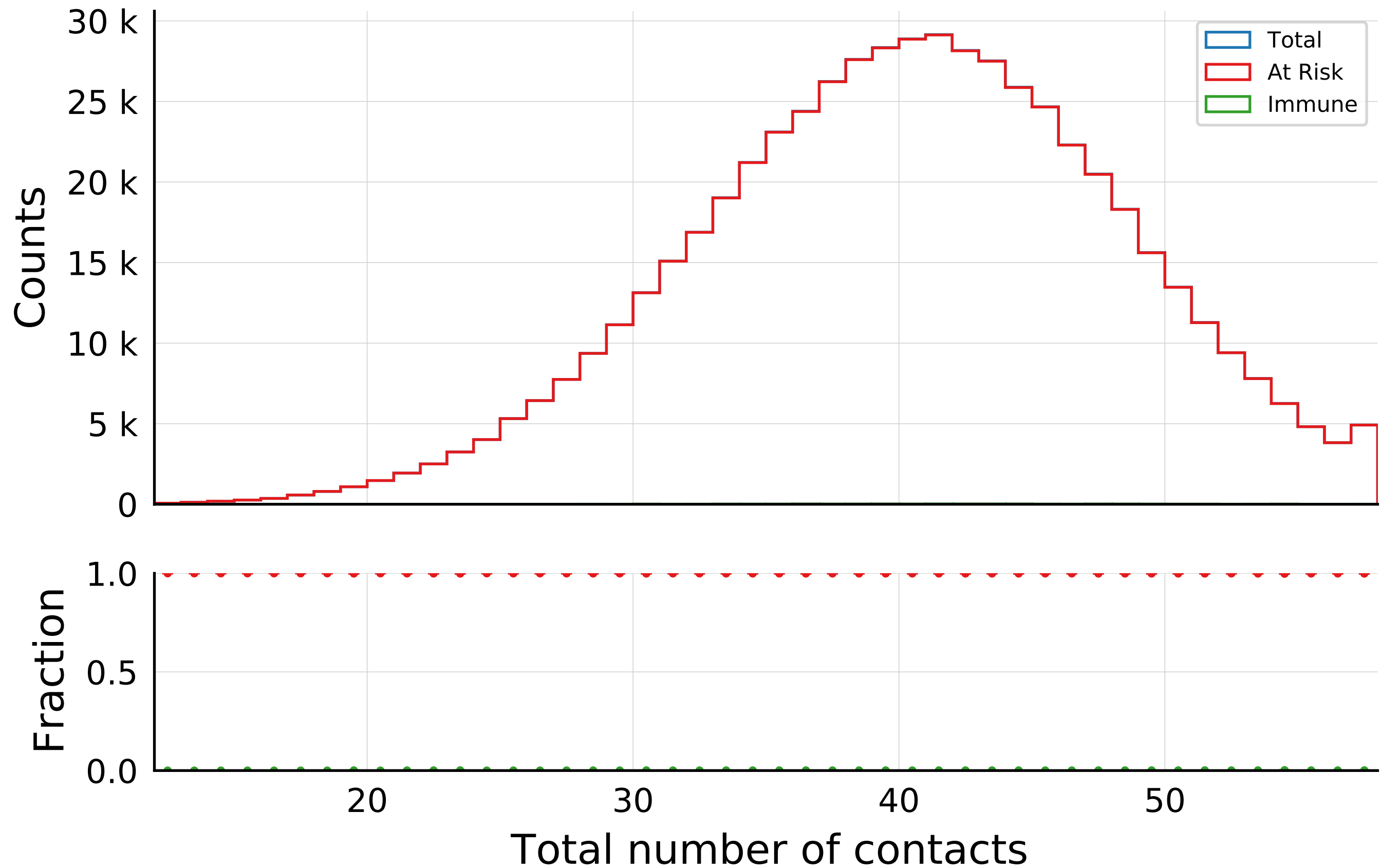$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
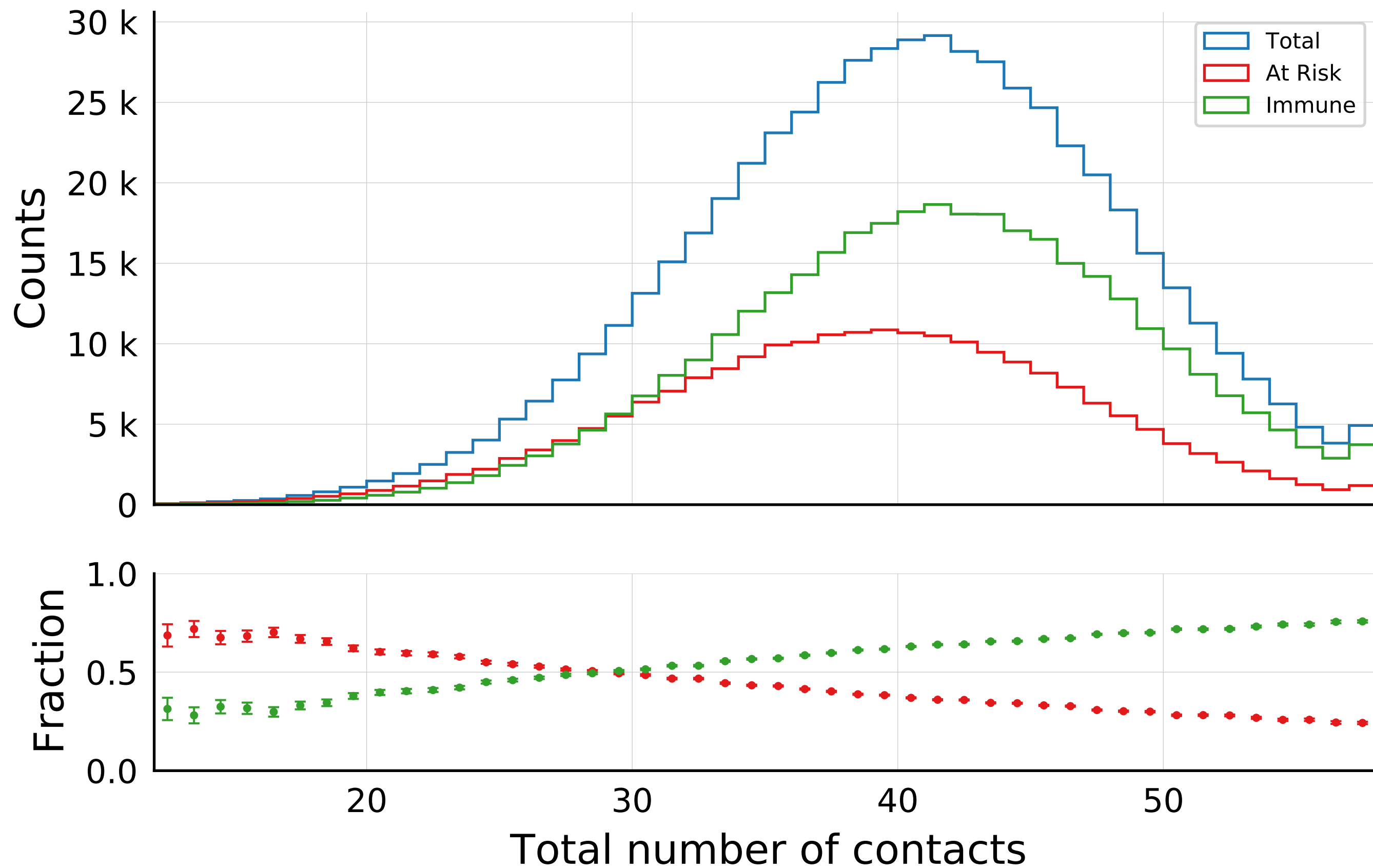$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
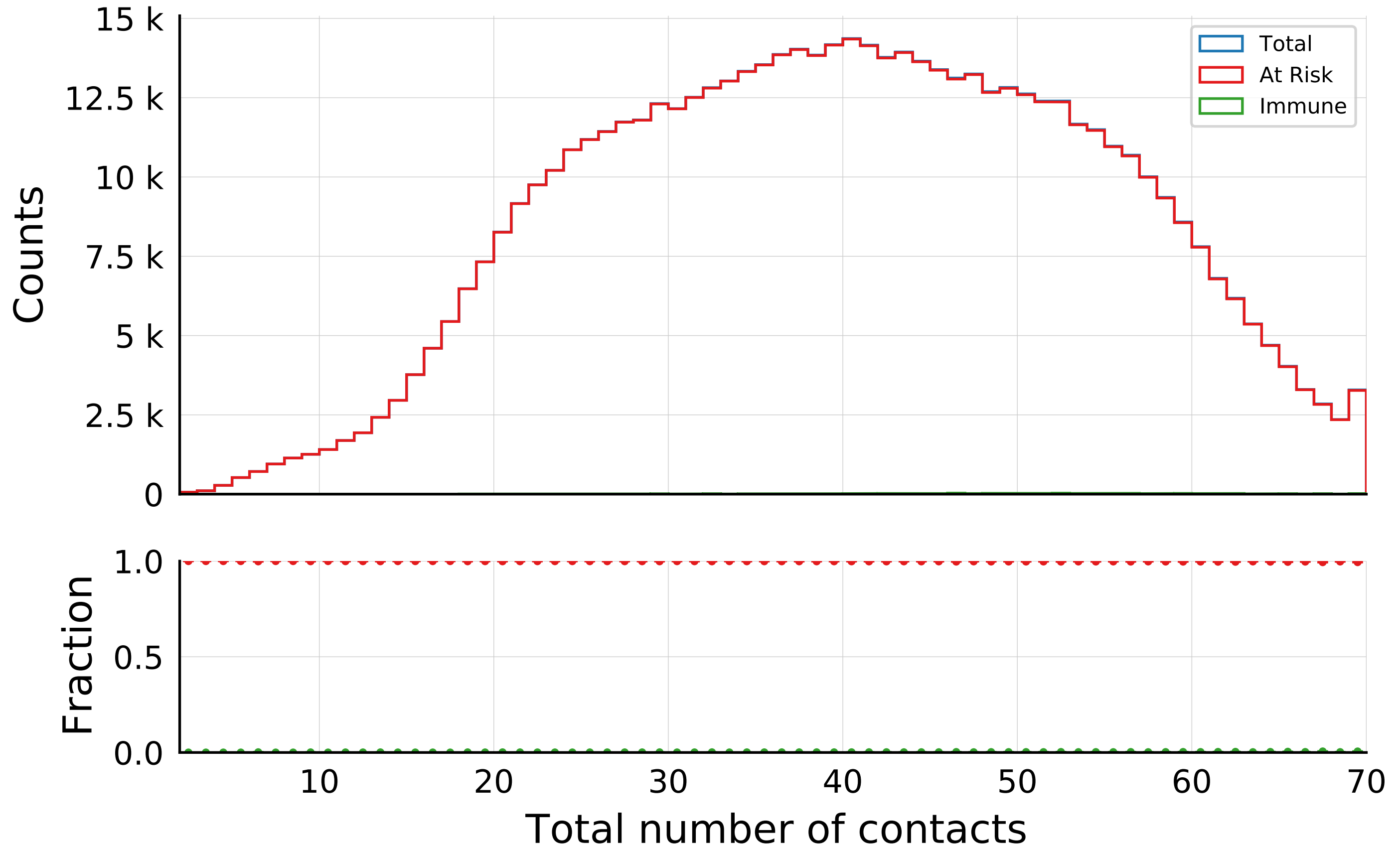$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
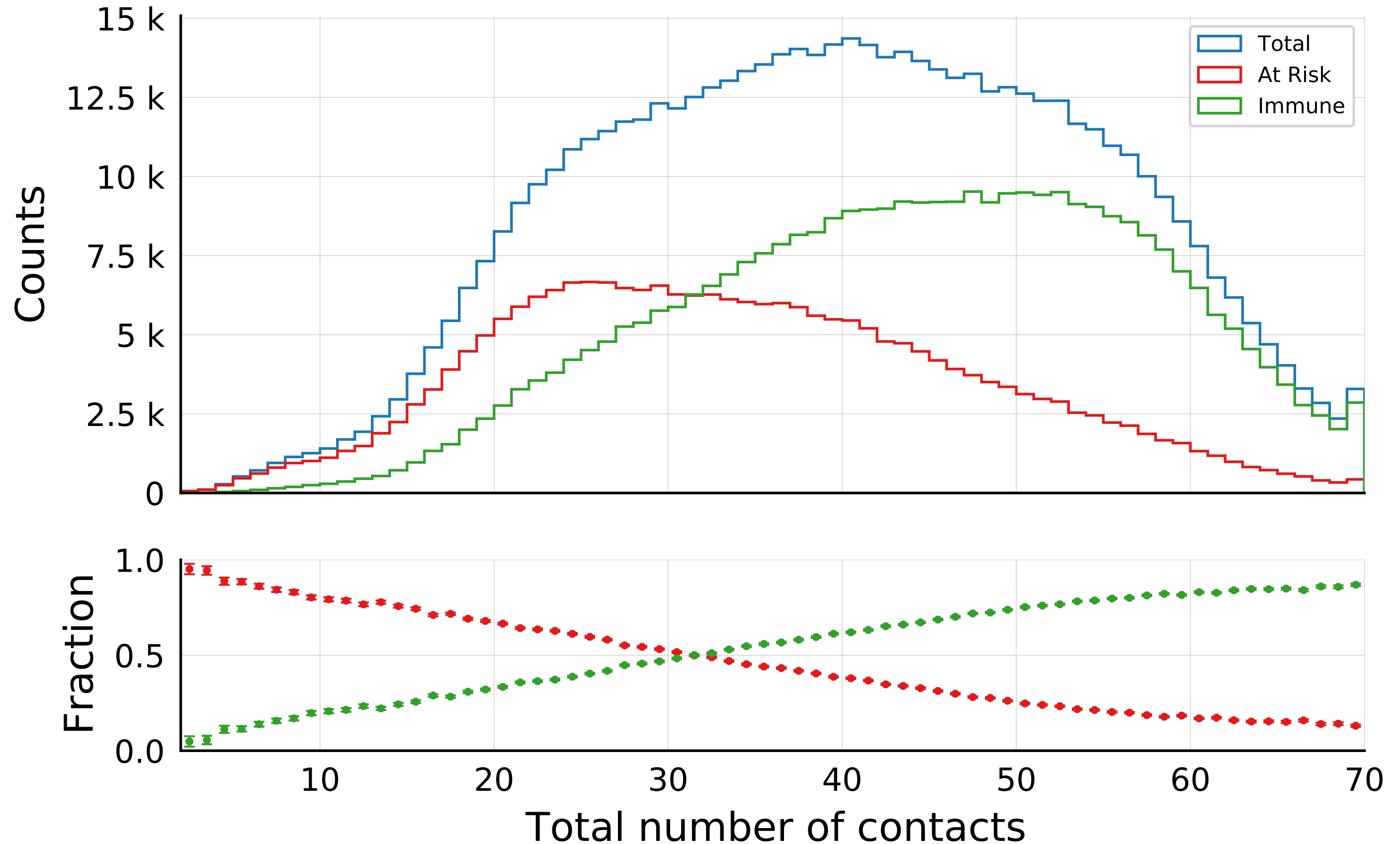$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$
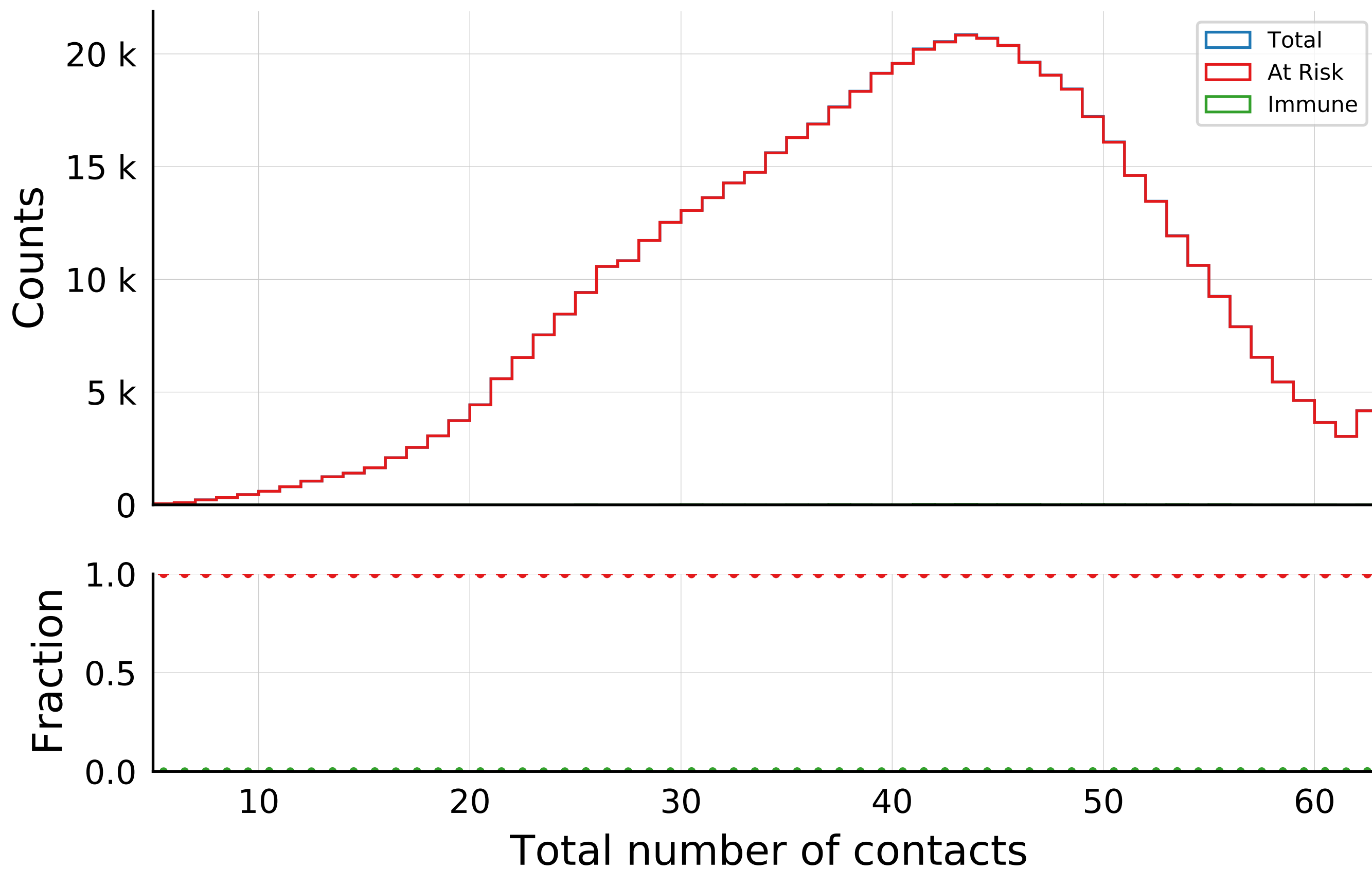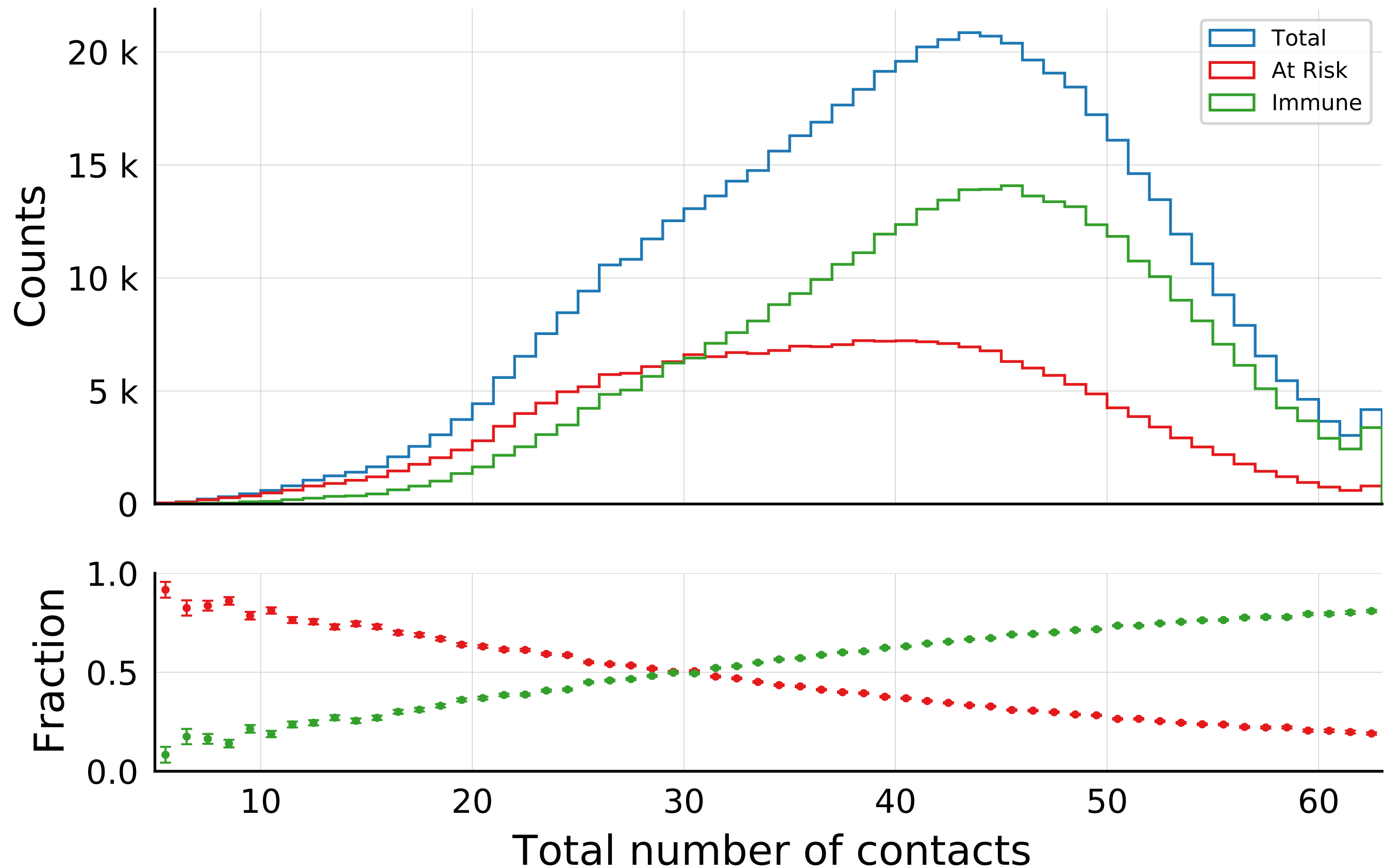
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.01,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
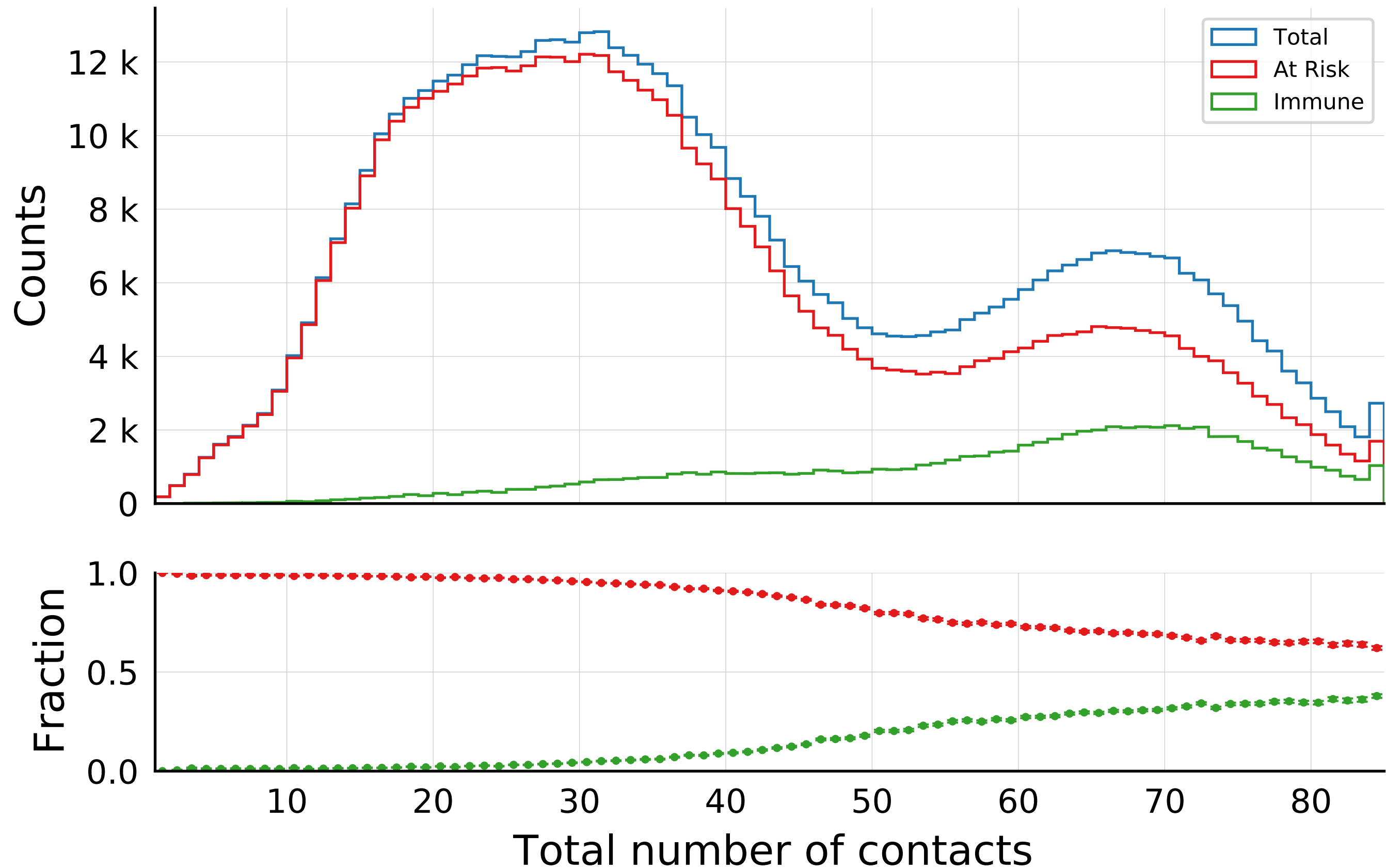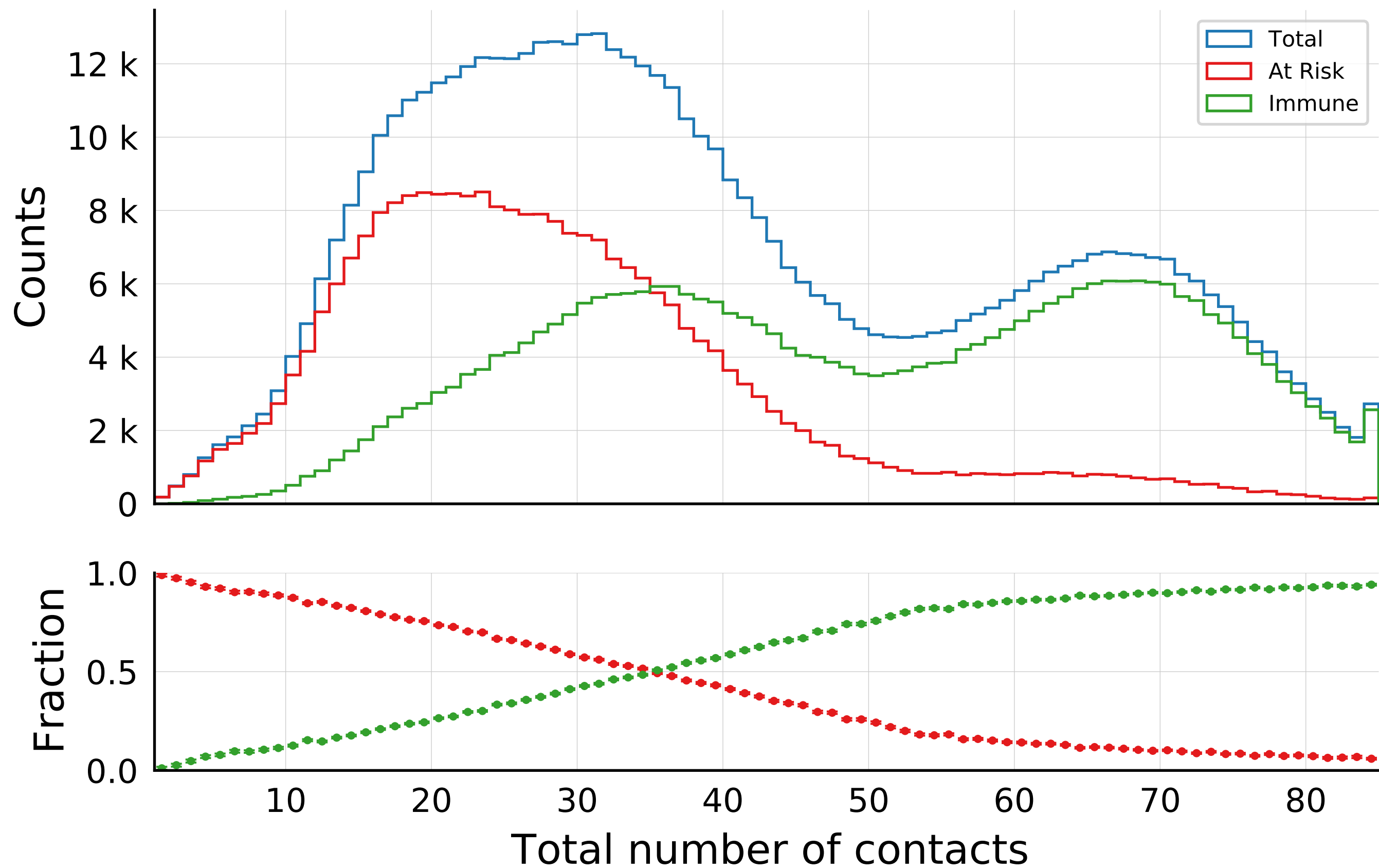$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$

$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.05$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
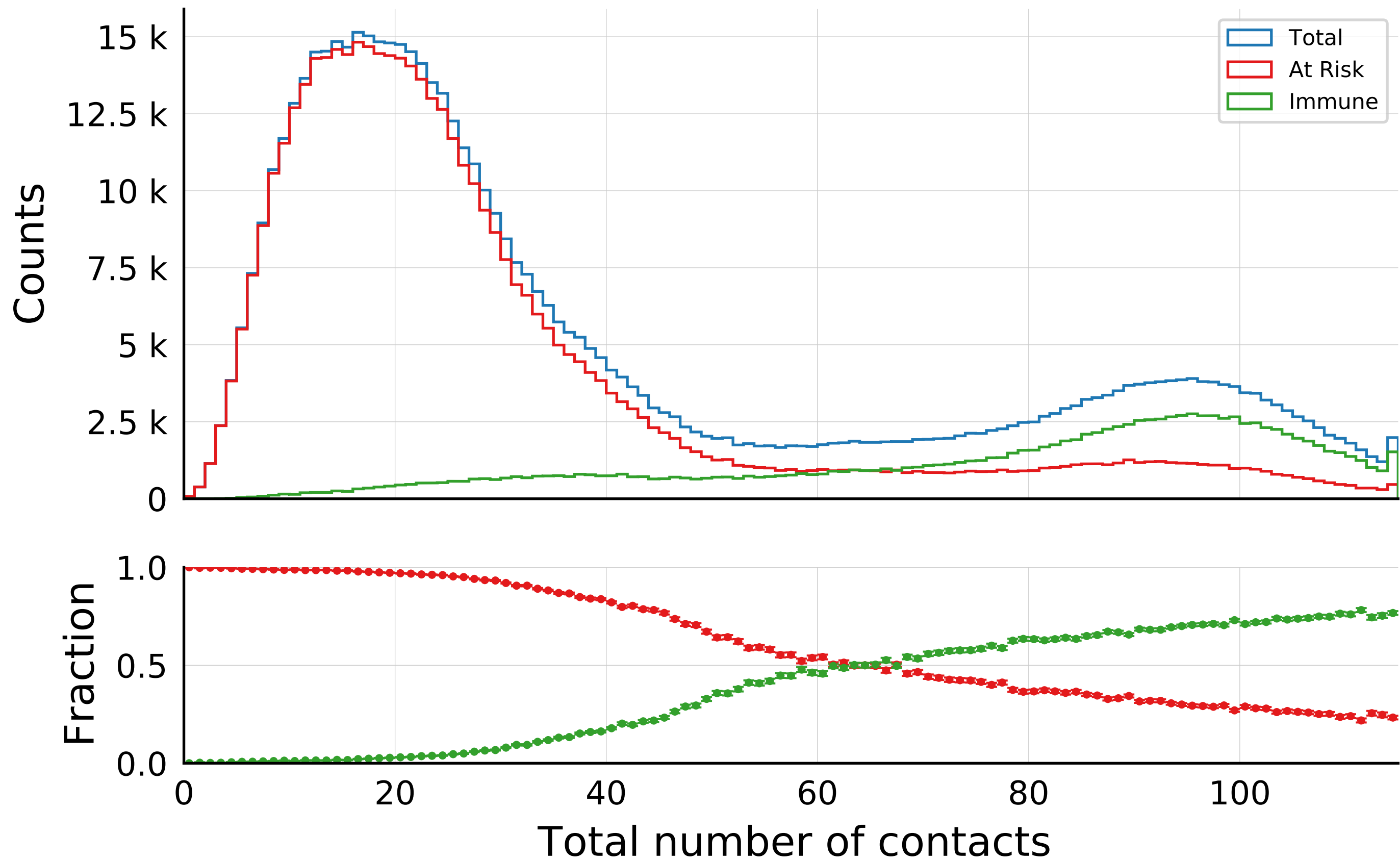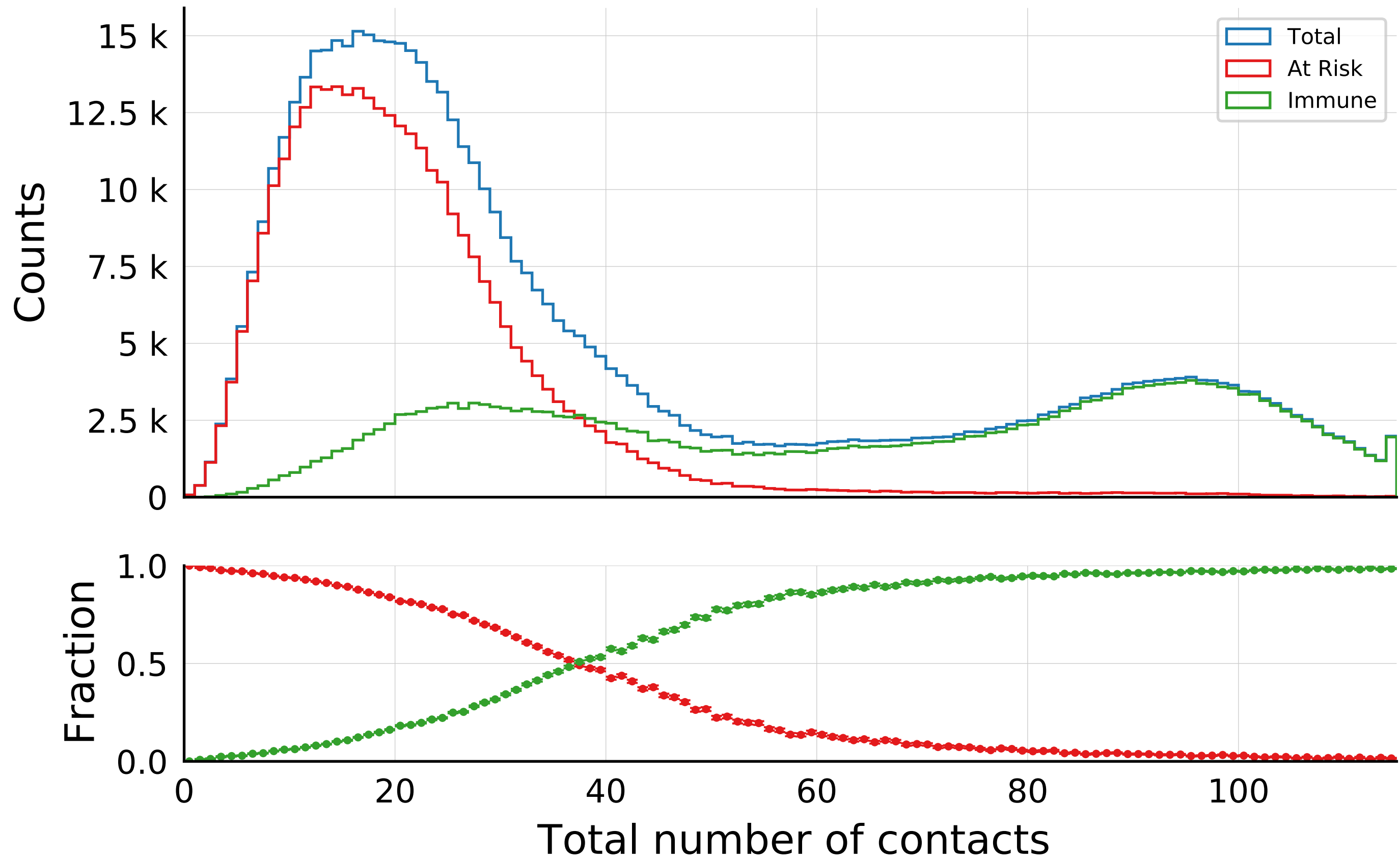$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.05$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
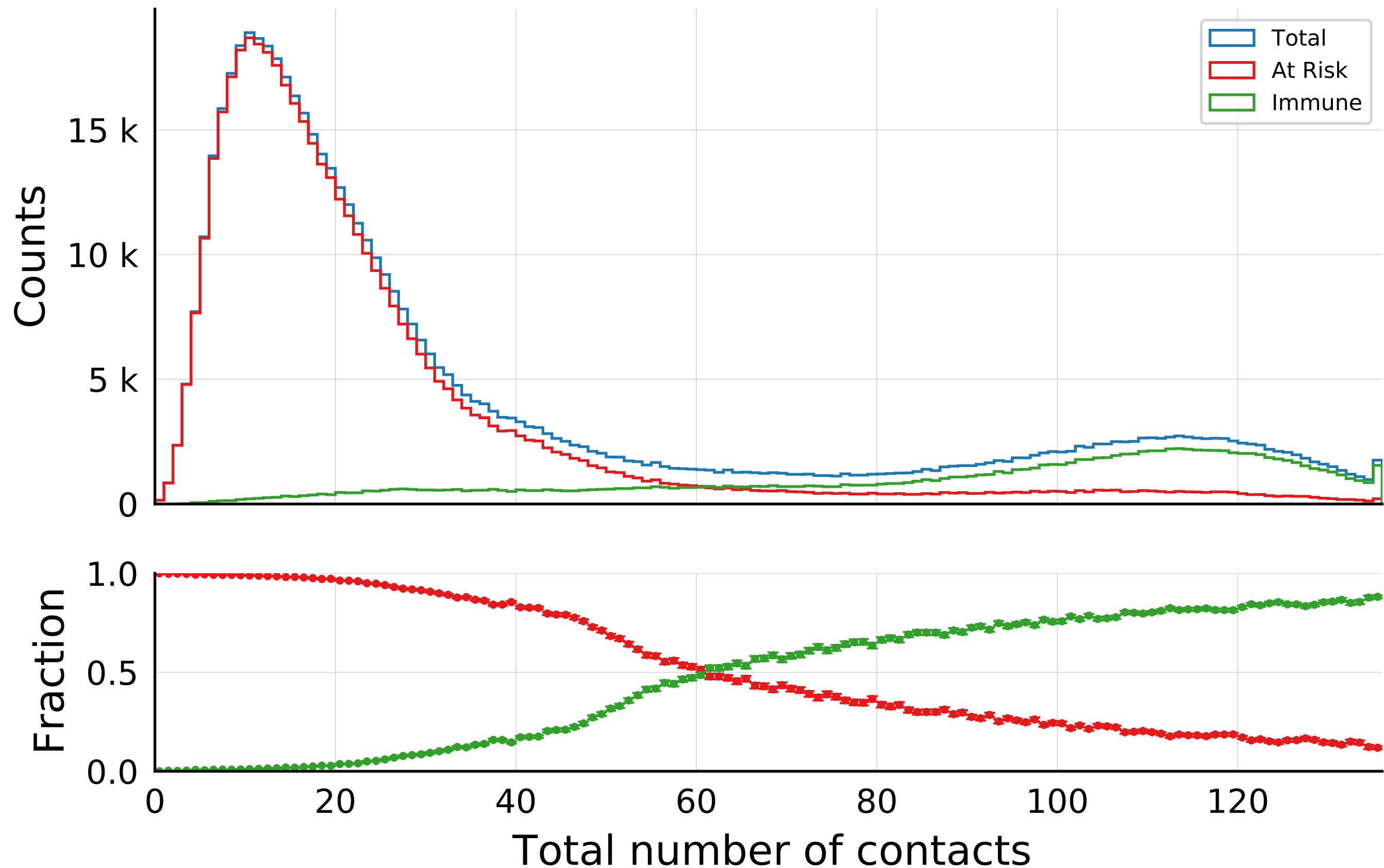$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.075$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
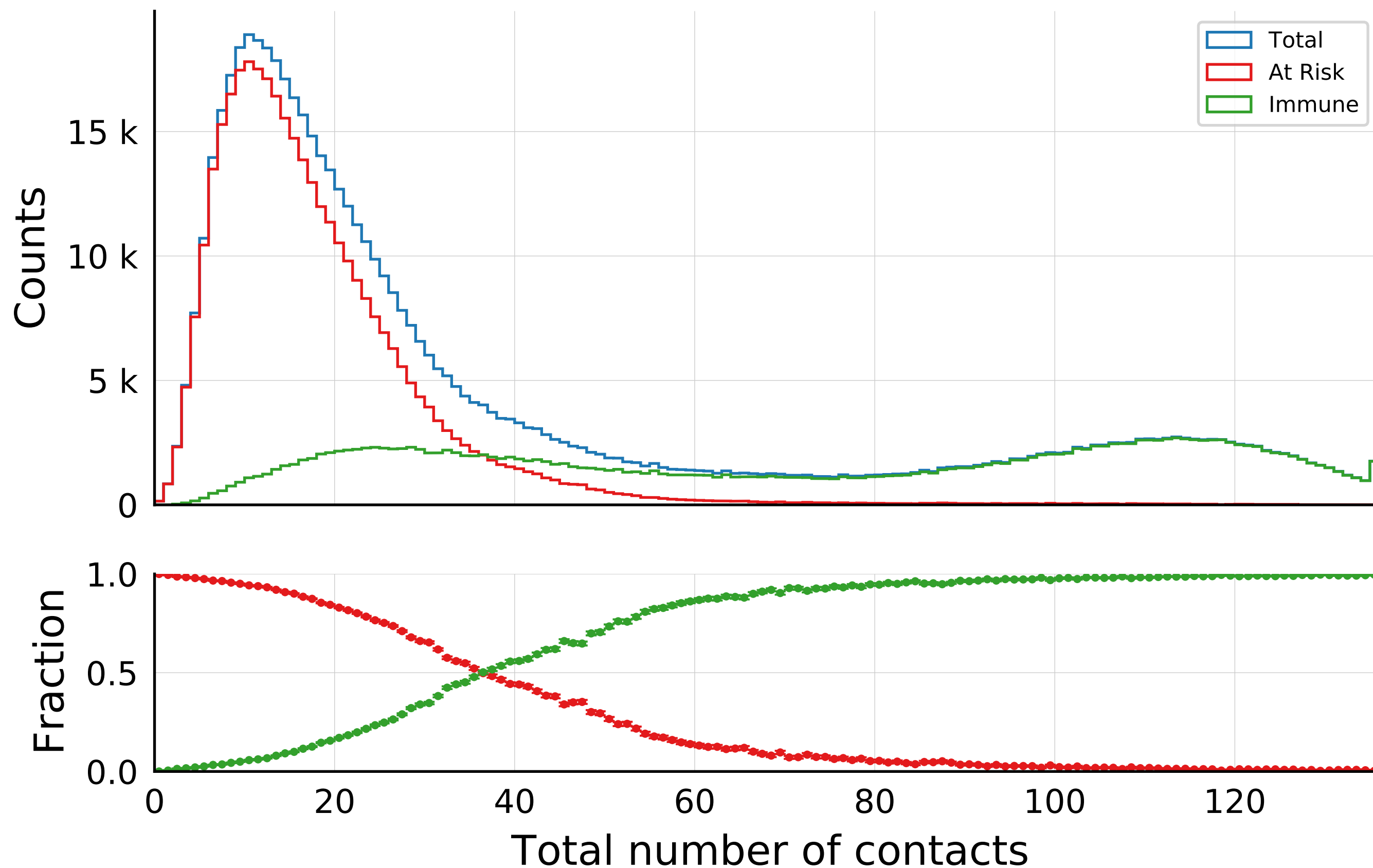$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.075,\ \epsilon_{\rho} = 0.04,\ \mu = 40.0,\ \sigma_{\mu} = 0.0,\ \beta = 0.01,\ \sigma_{\beta} = 0.0$
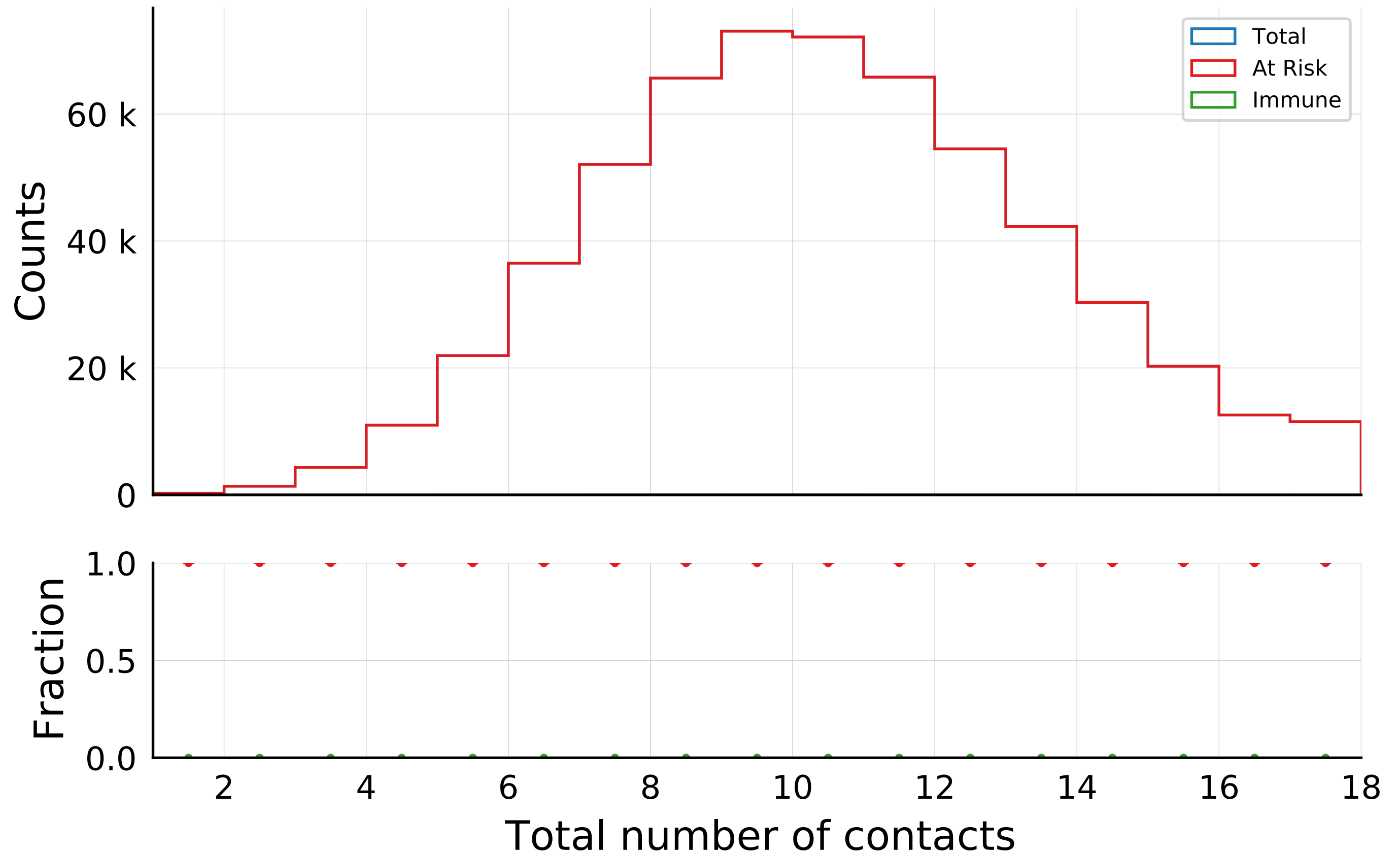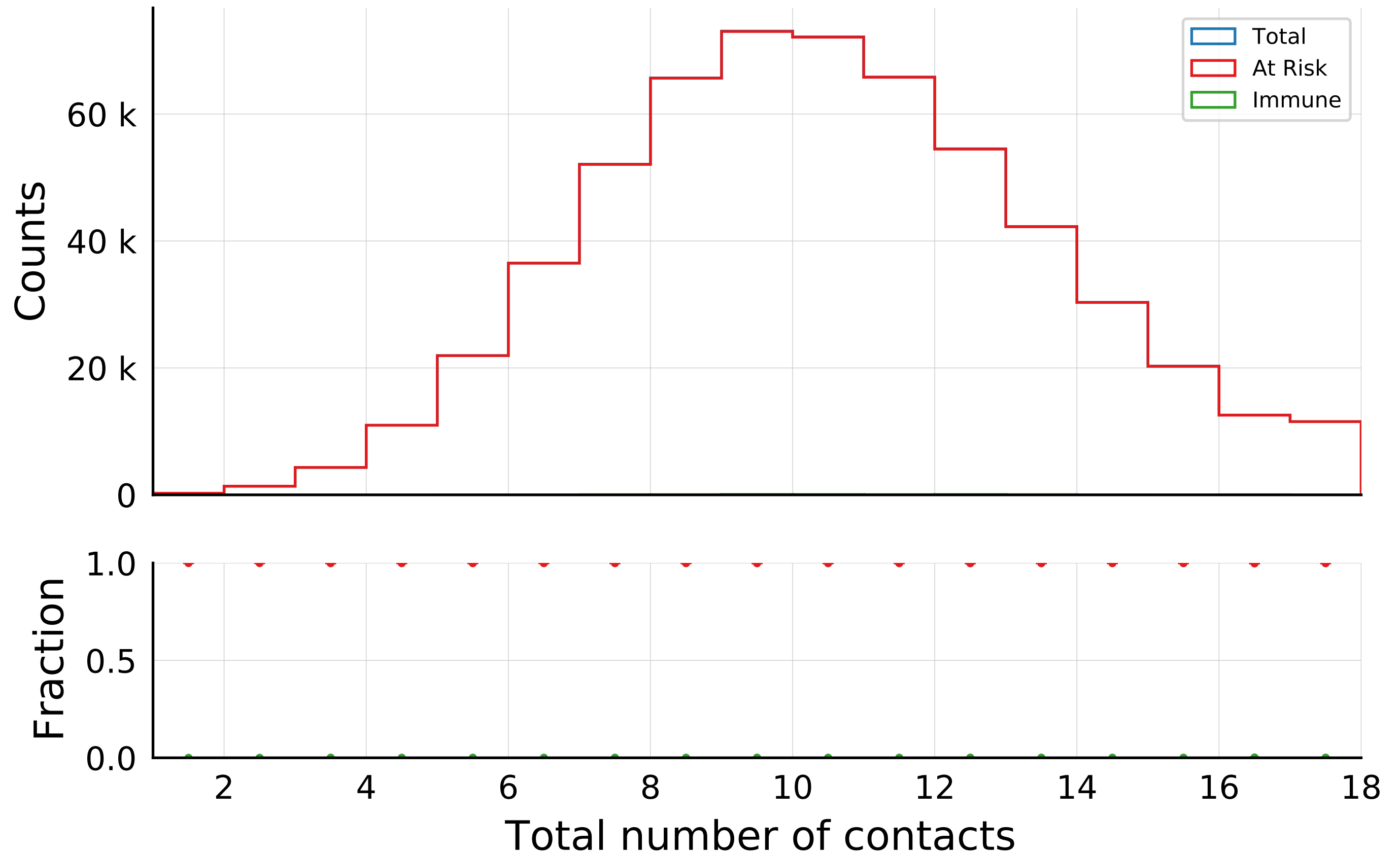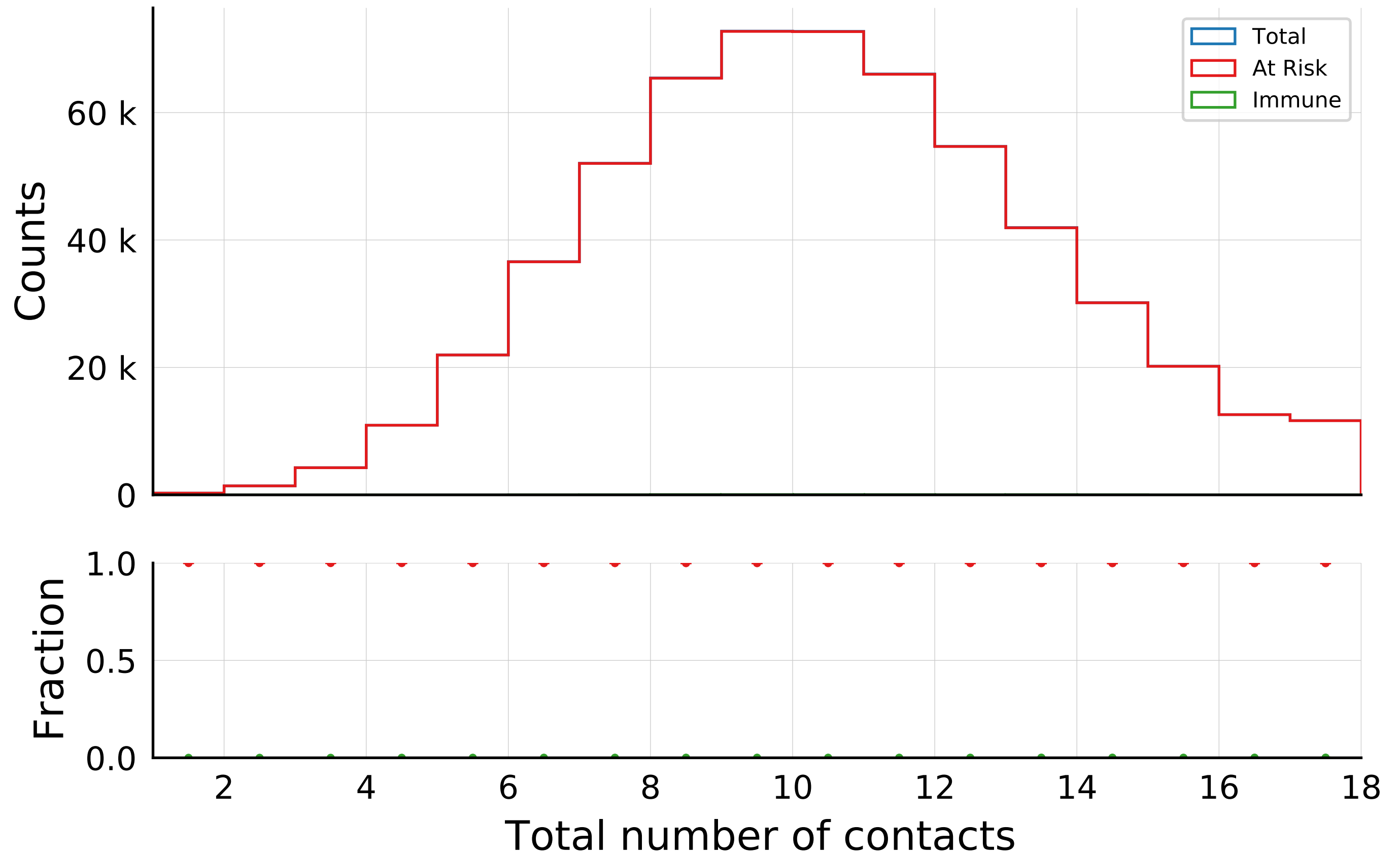$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
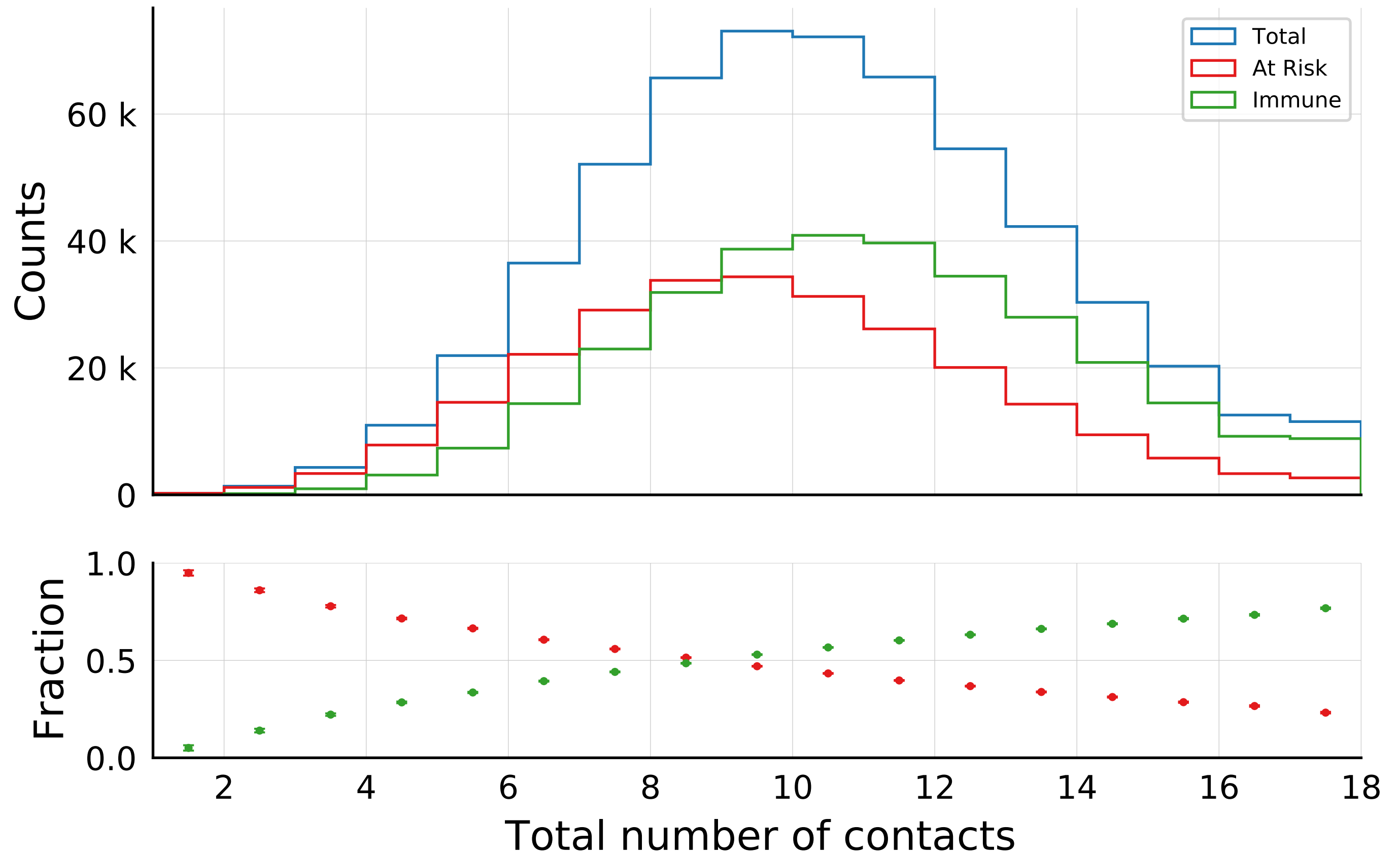$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
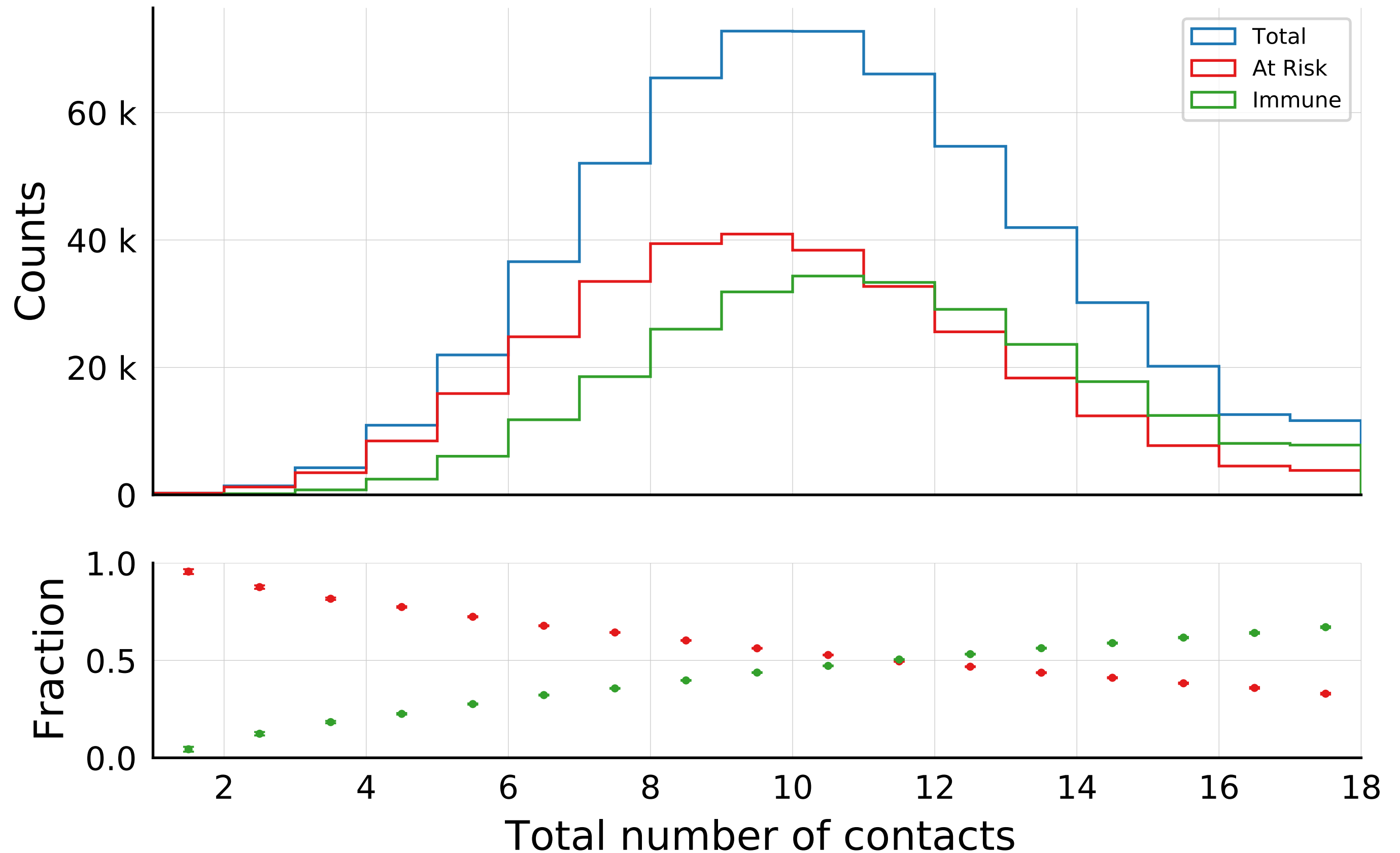$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
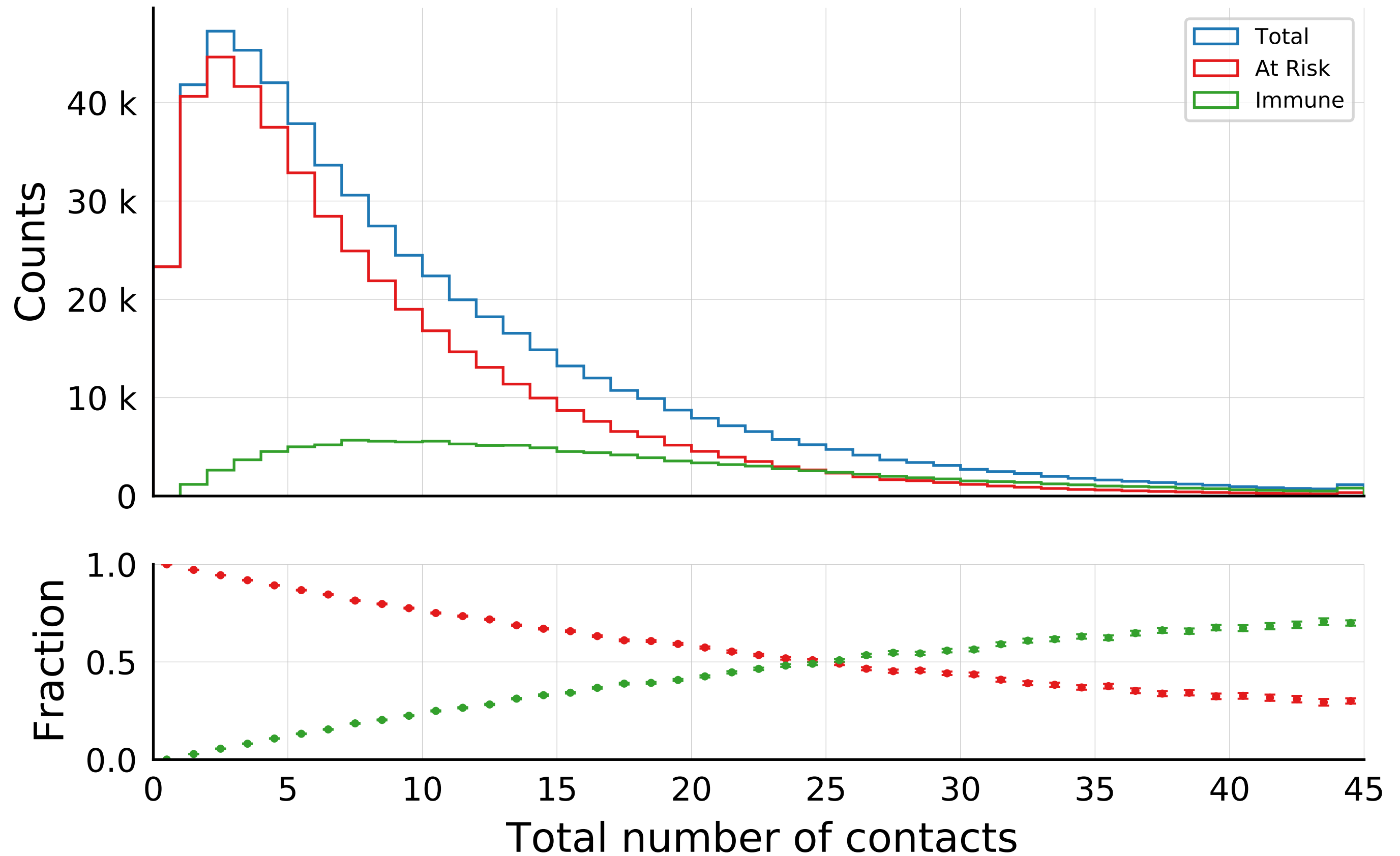$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
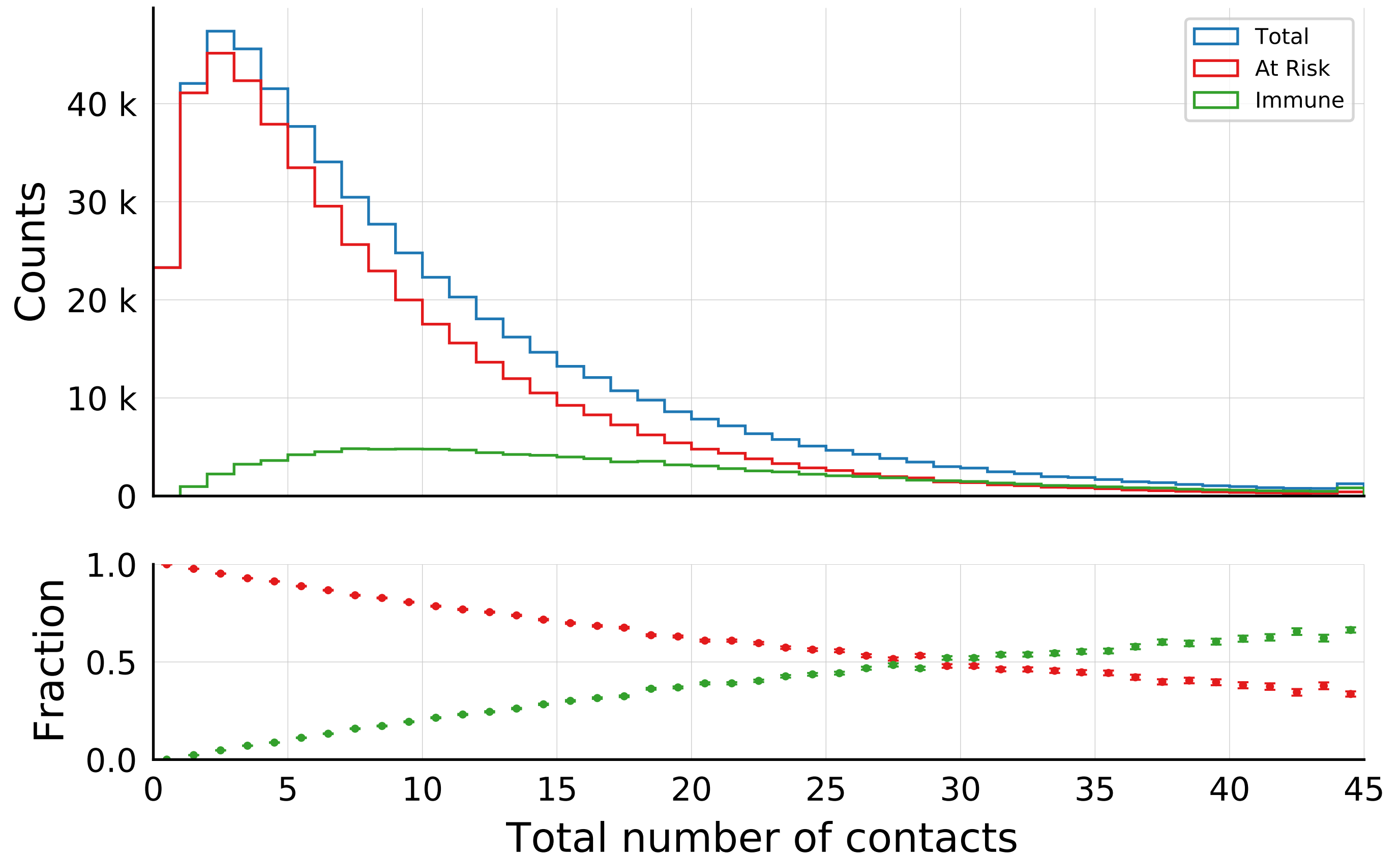$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K, \ N_{\text{init}} = 100, \ \rho = 0.0, \ \epsilon_\rho = 0.04, \ \mu = 10.0, \ \sigma_\mu = 1.0, \ \beta = 0.02, \ \sigma_\beta = 1.0$
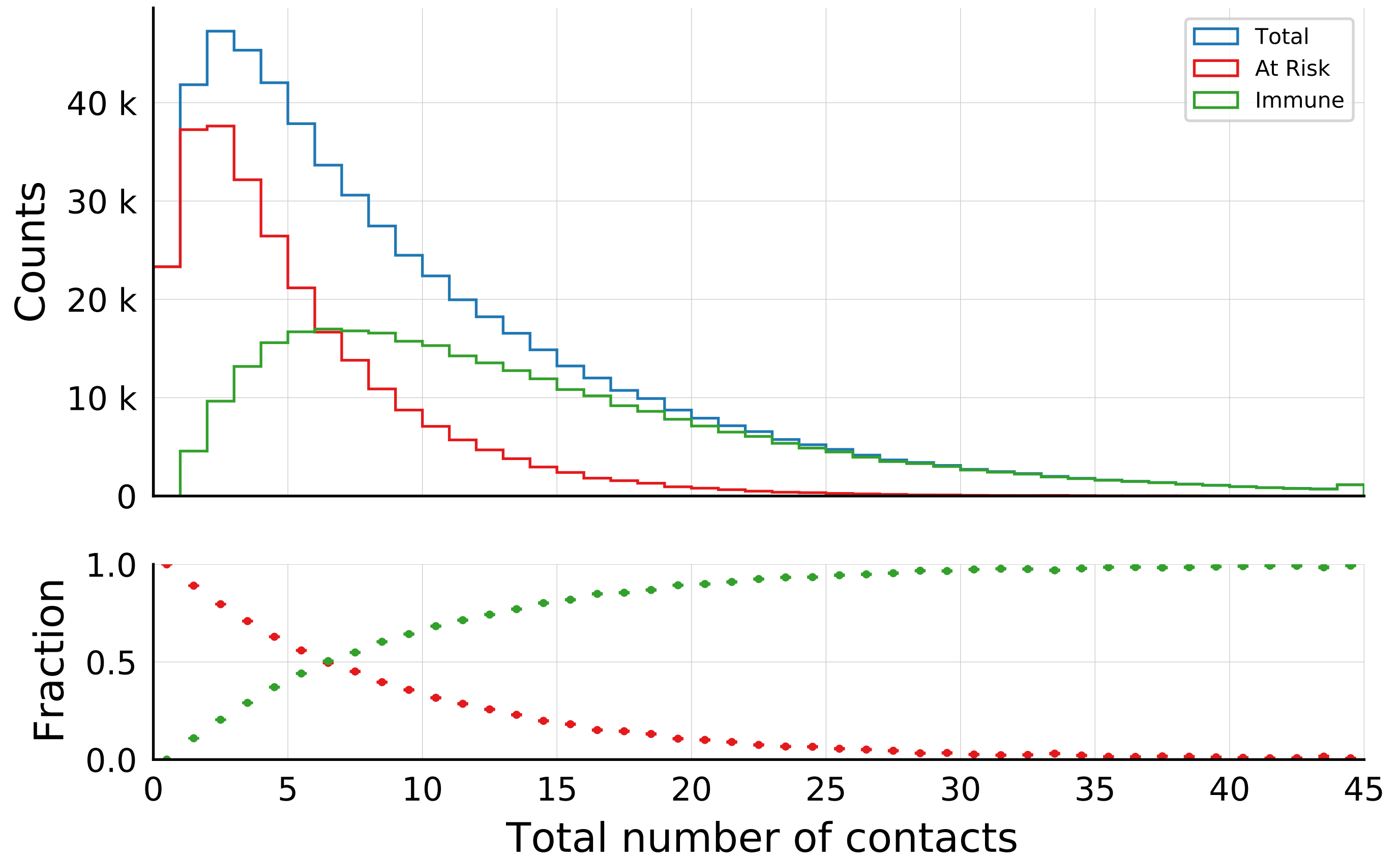$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
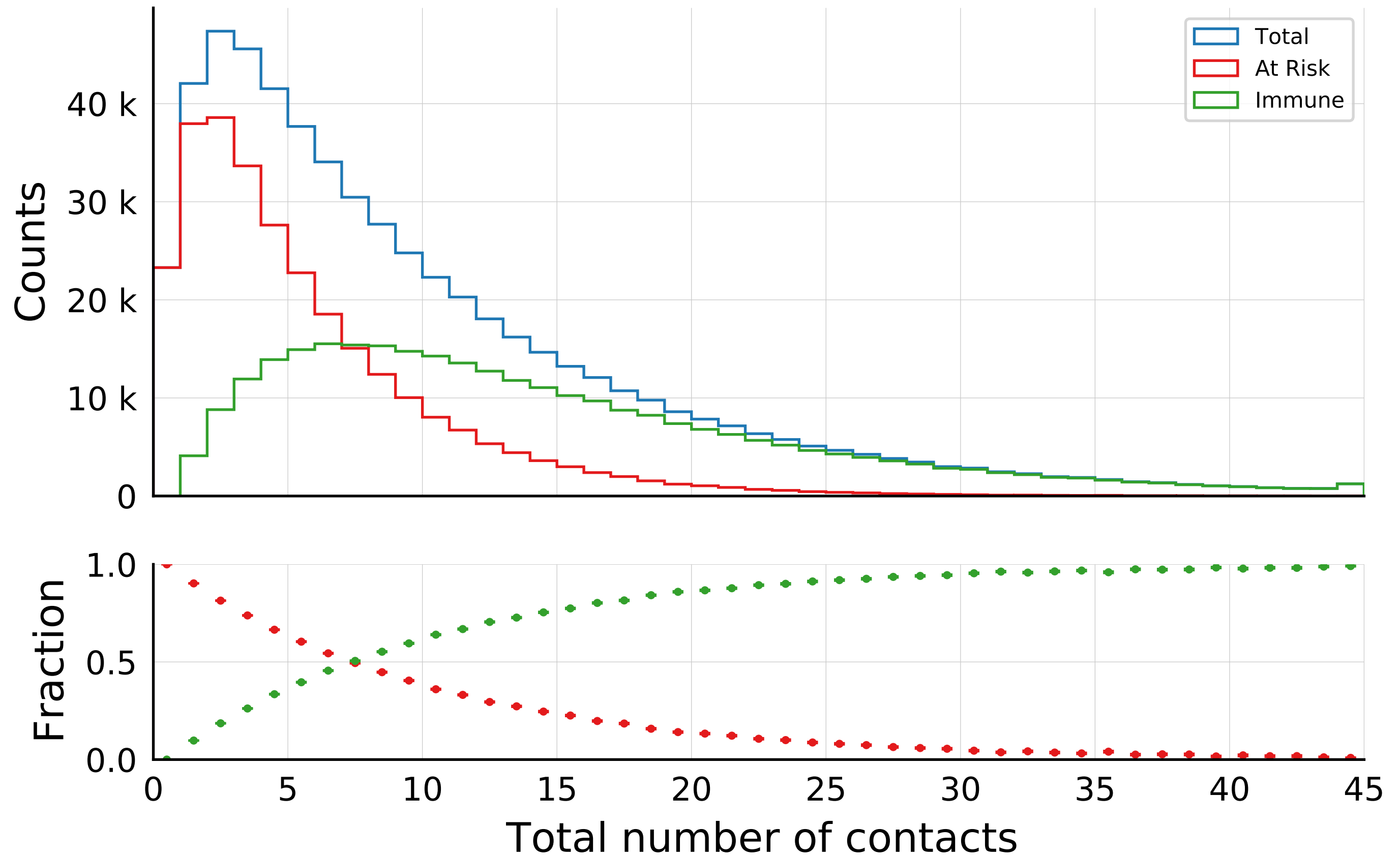$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
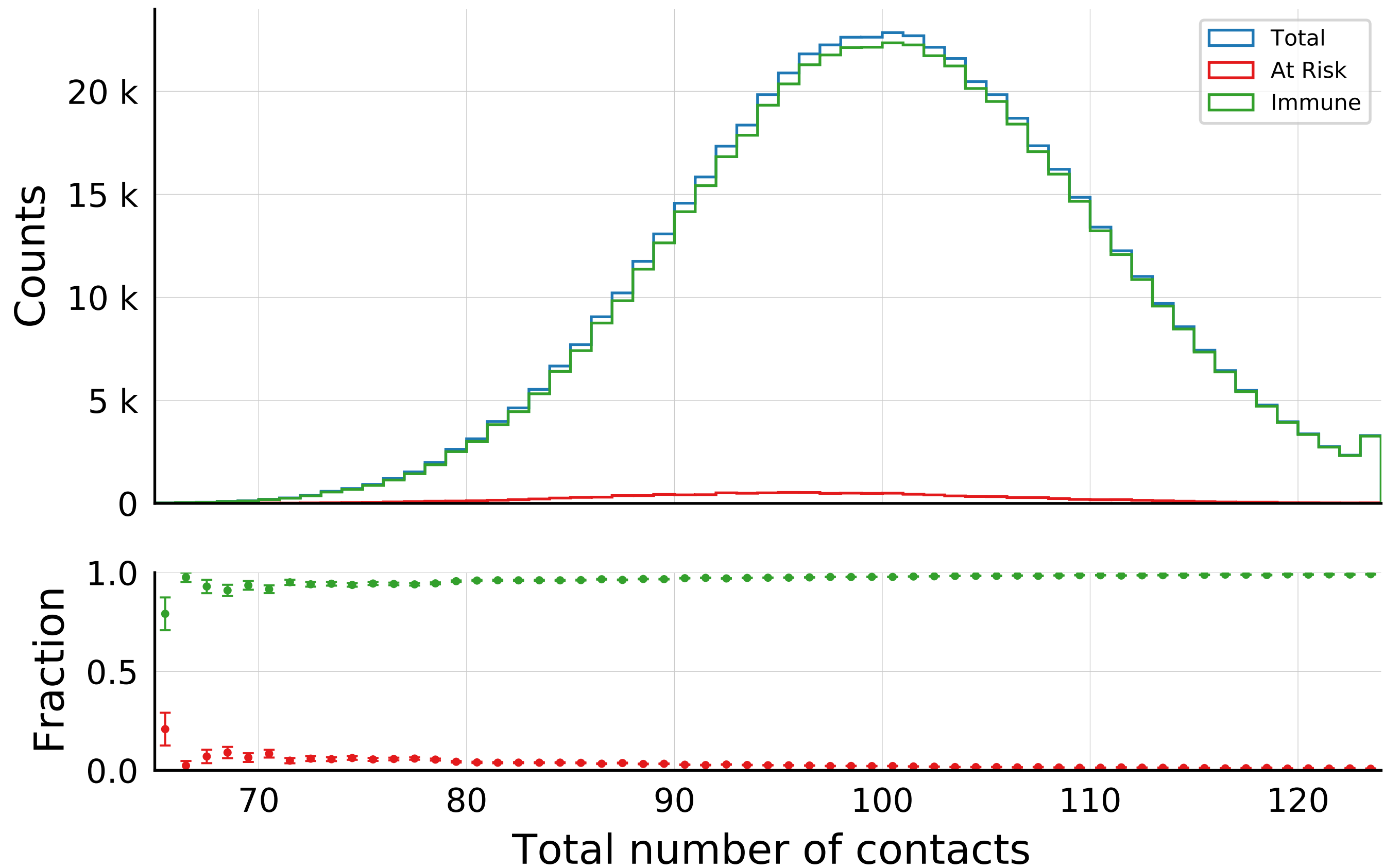$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 100.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
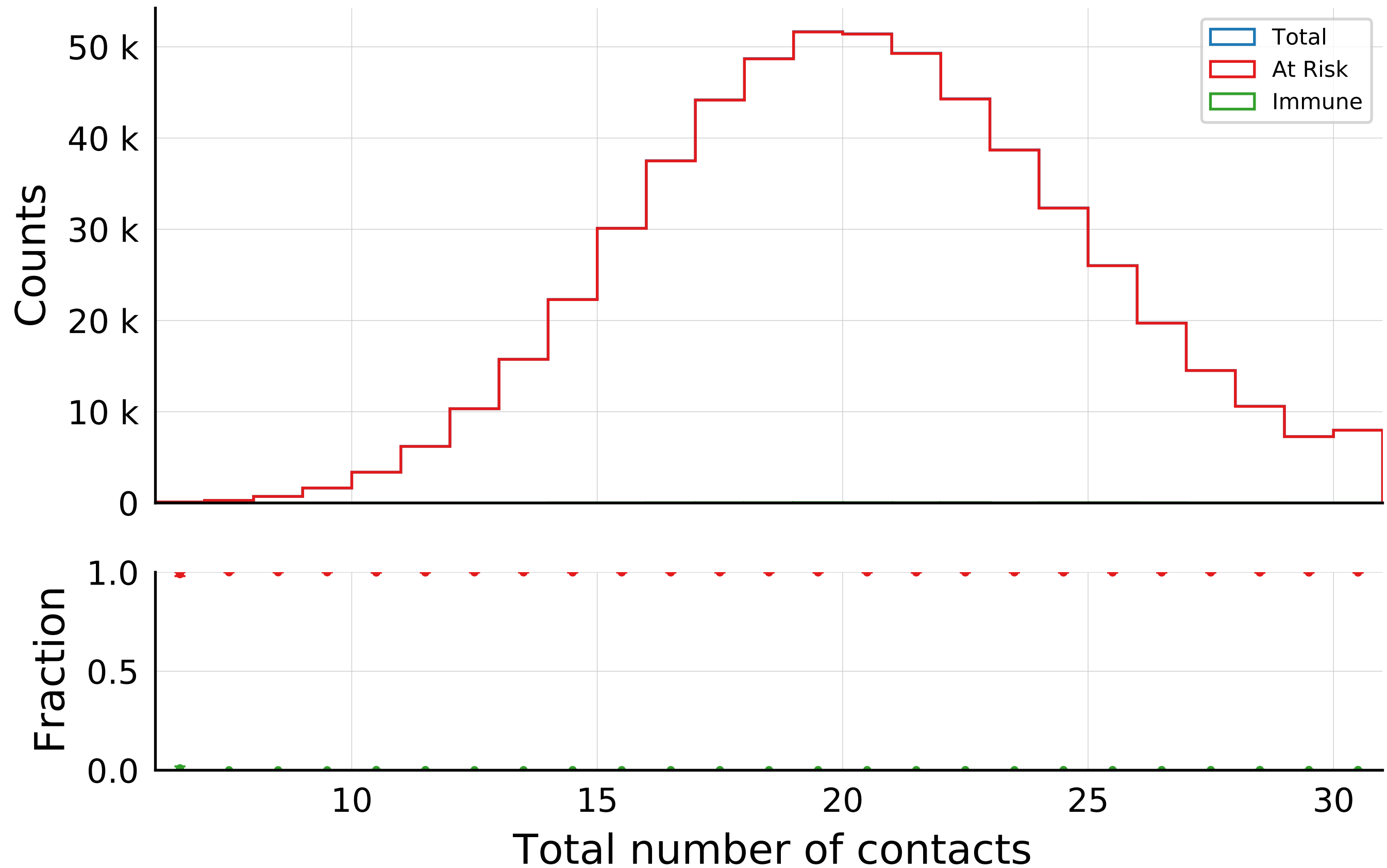$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 20.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
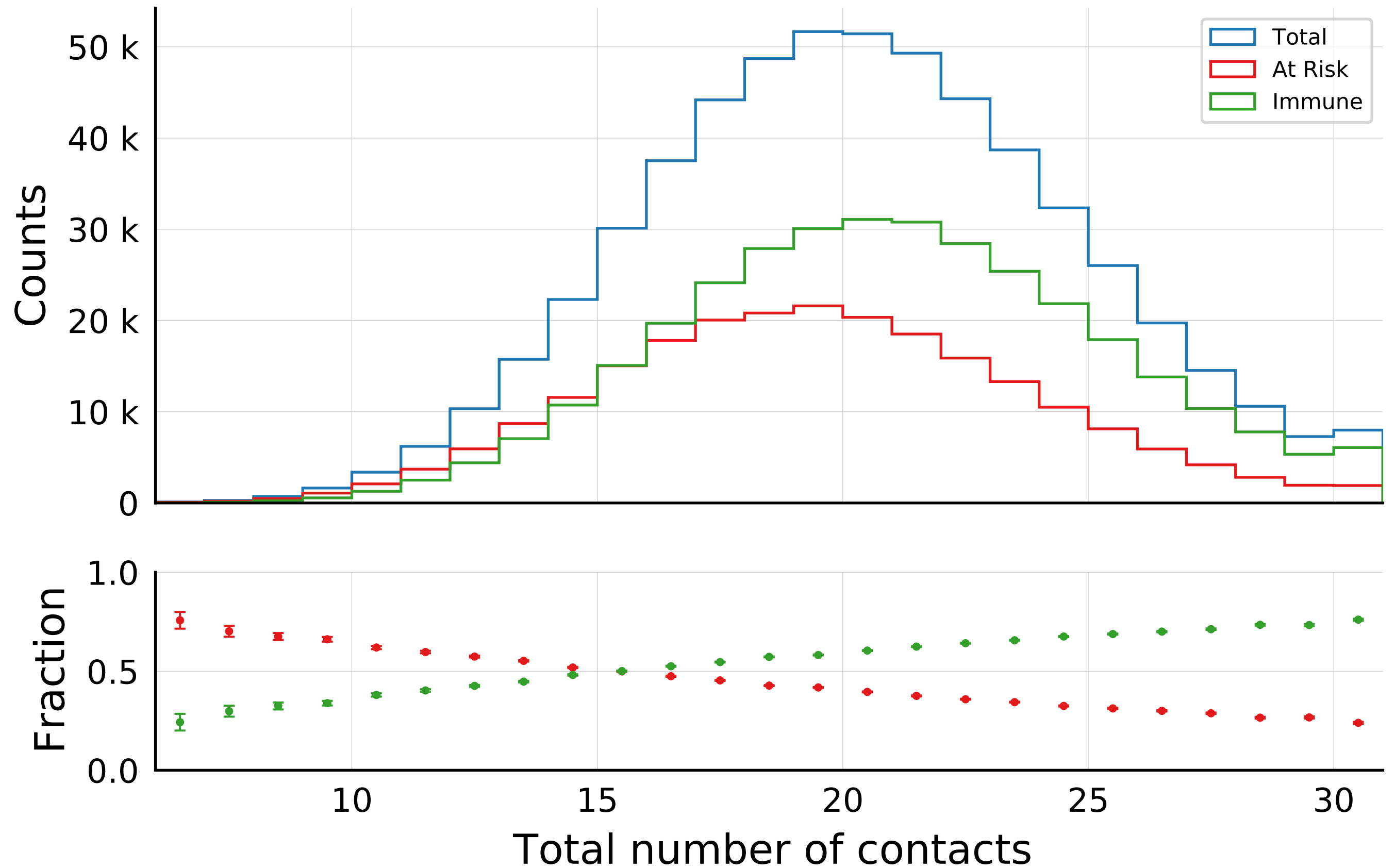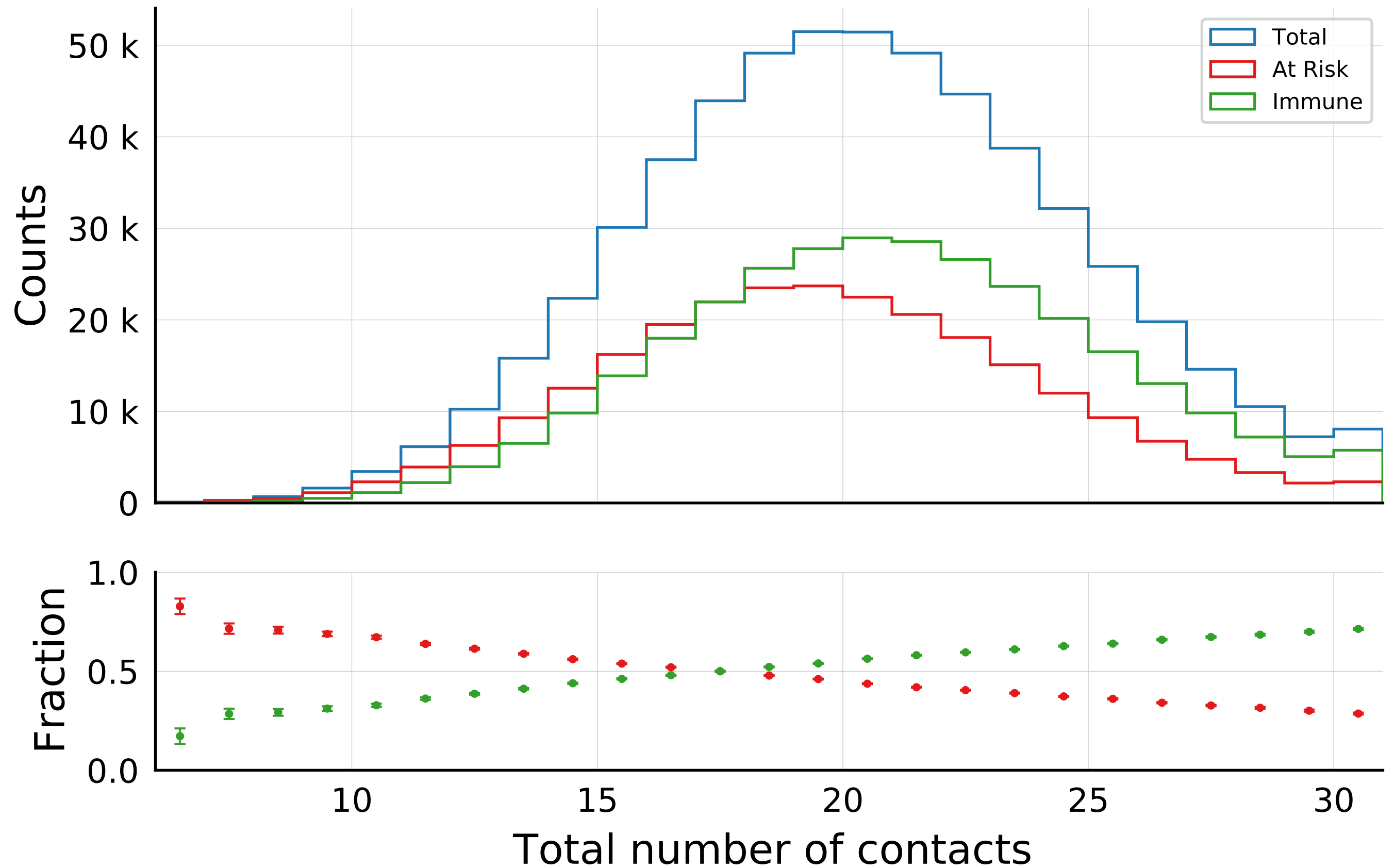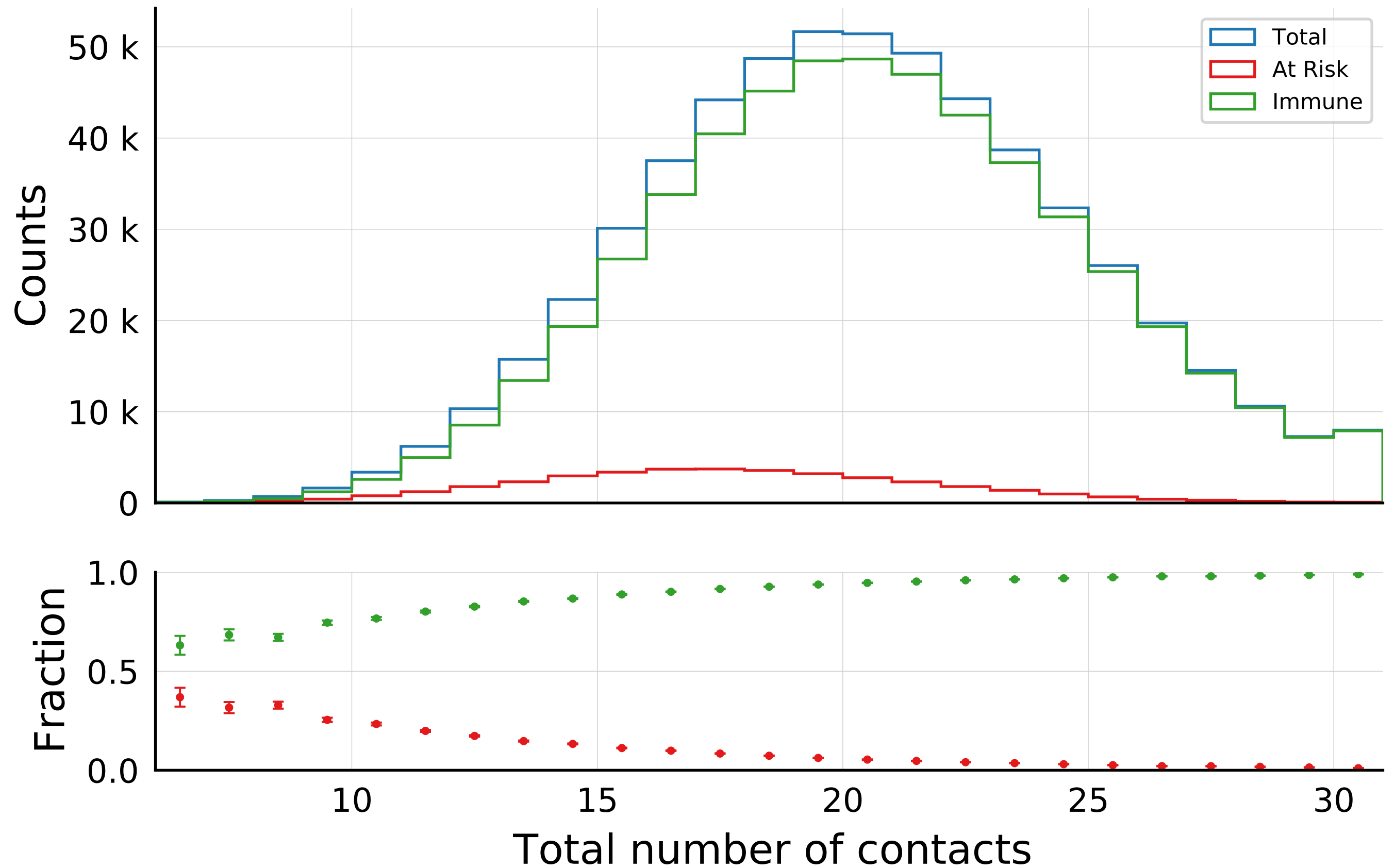$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
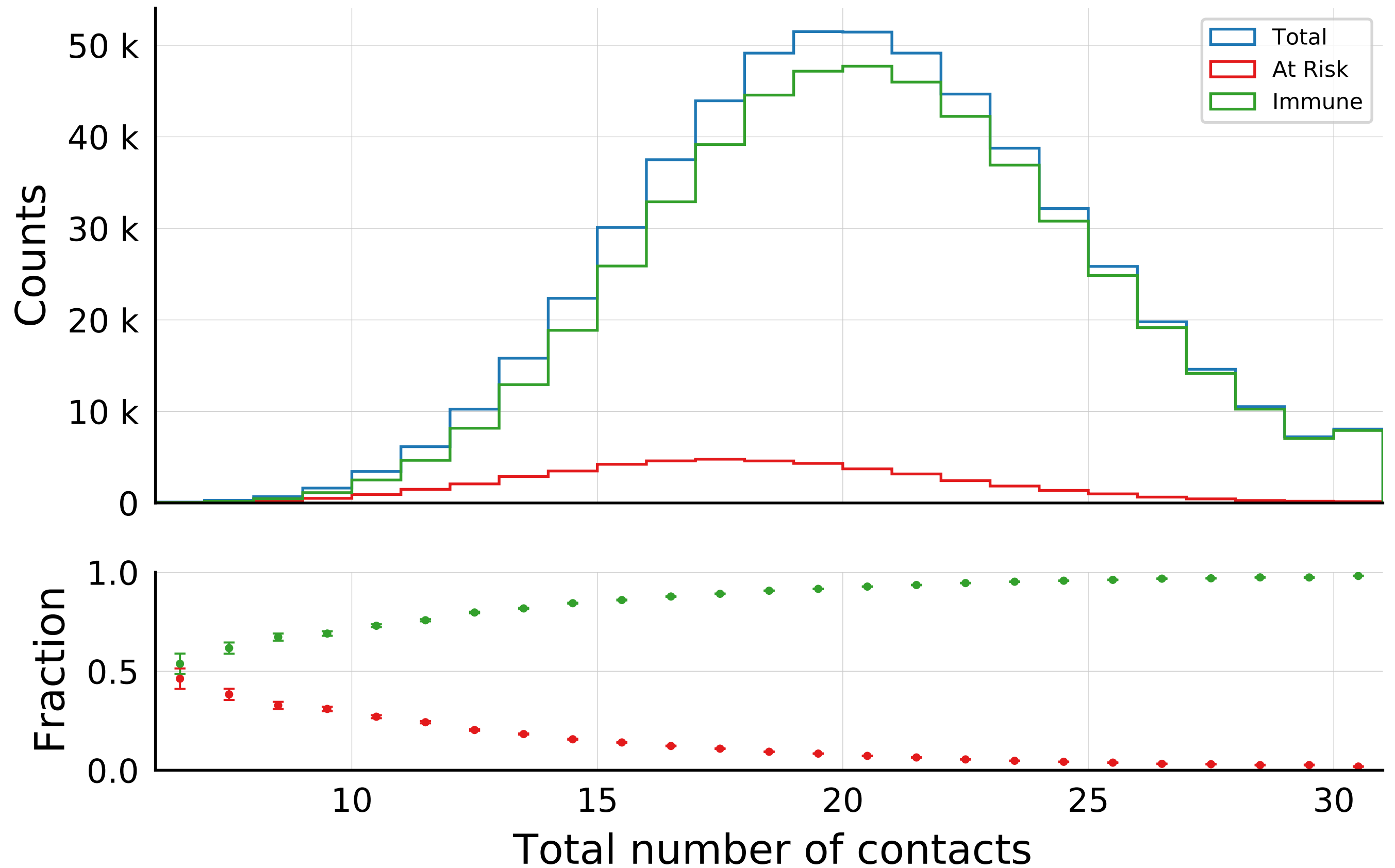$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
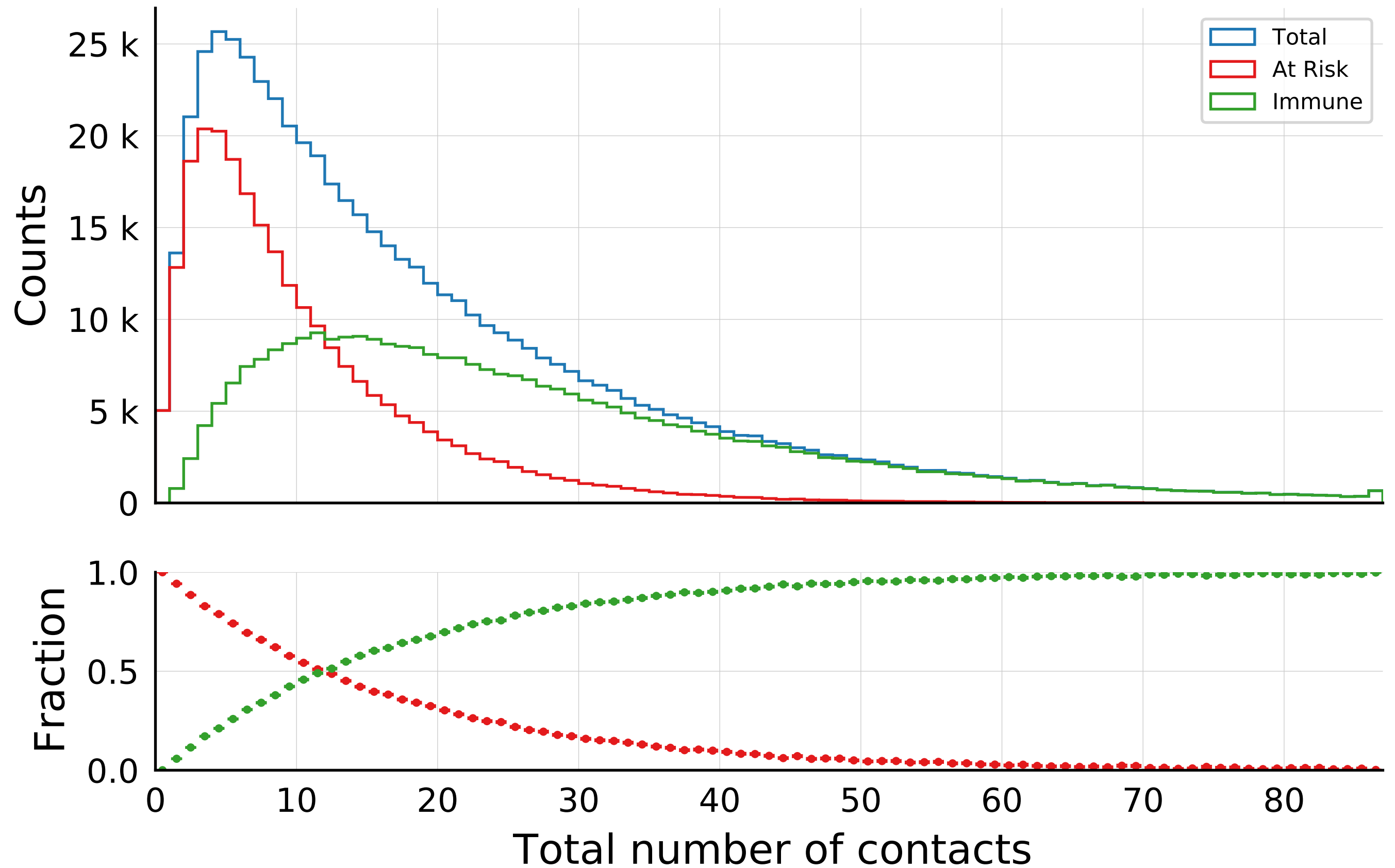$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
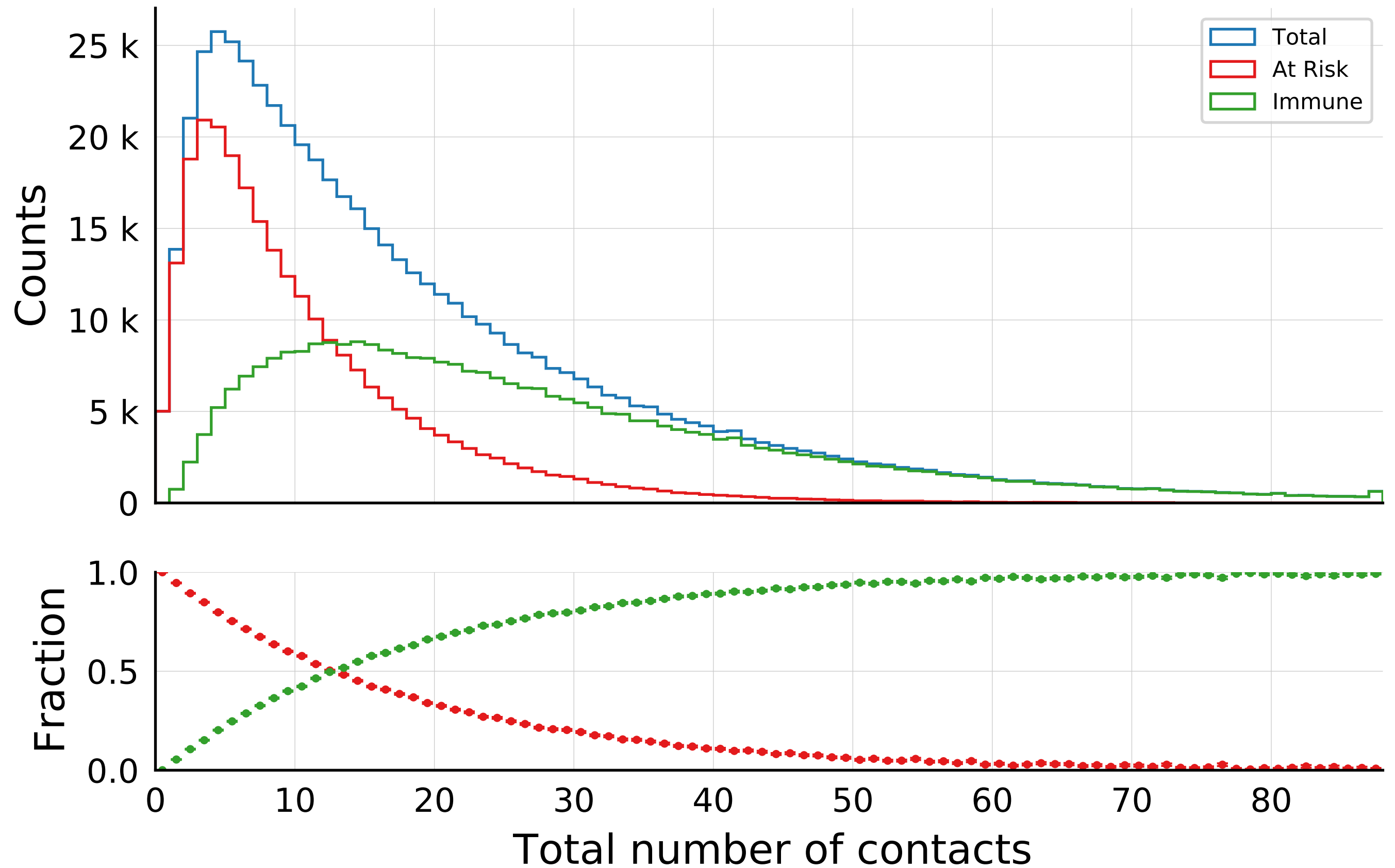$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
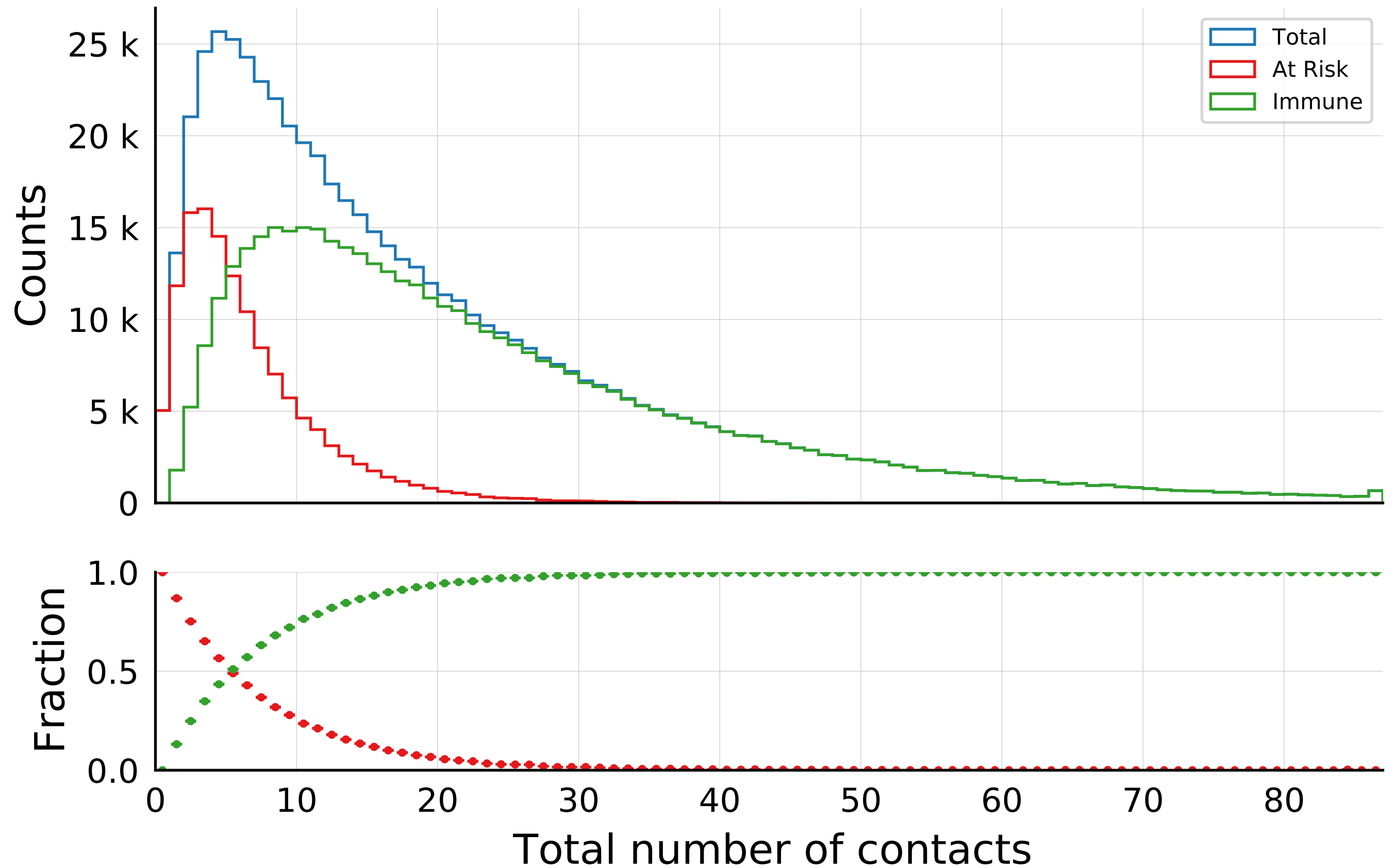$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
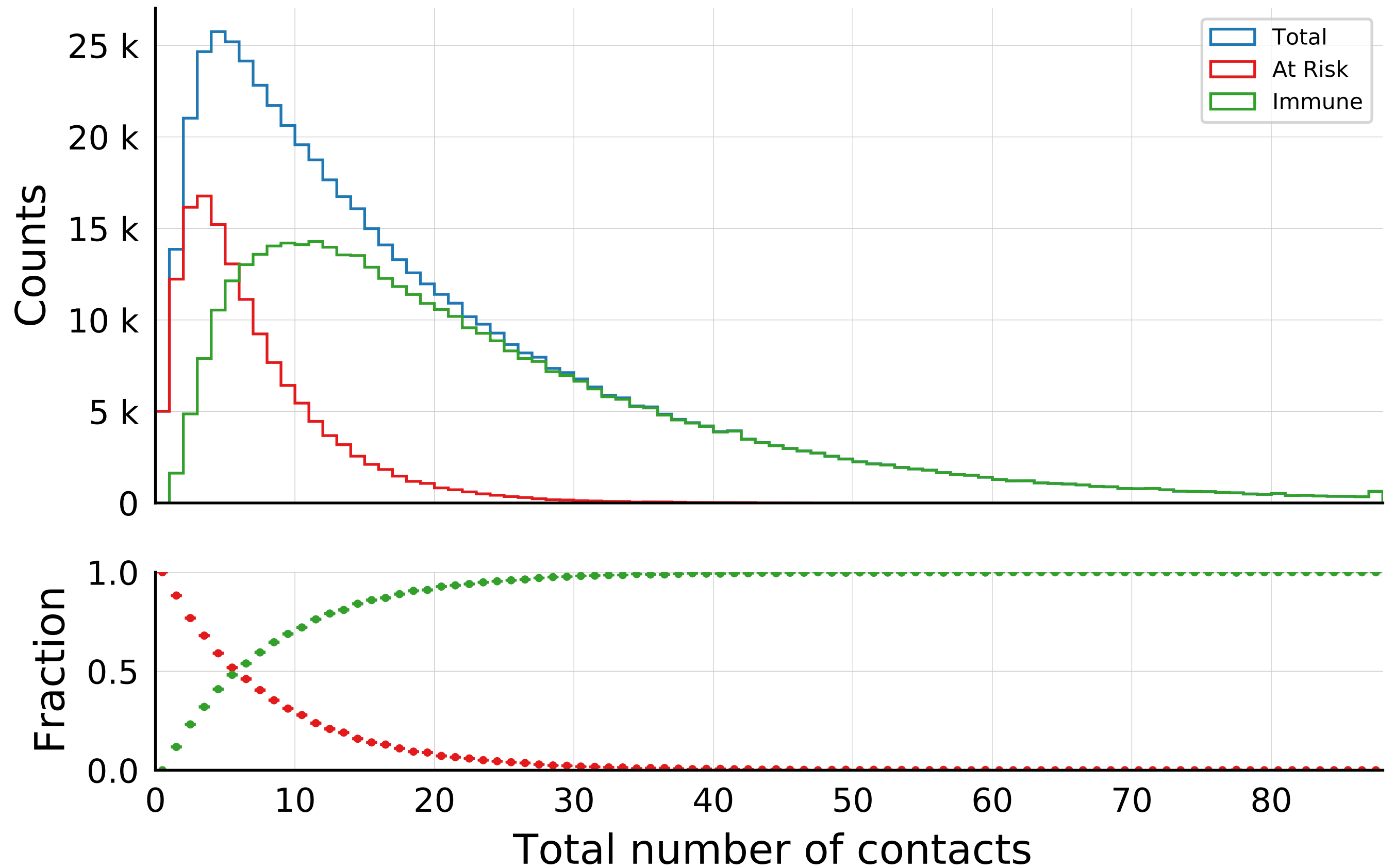$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
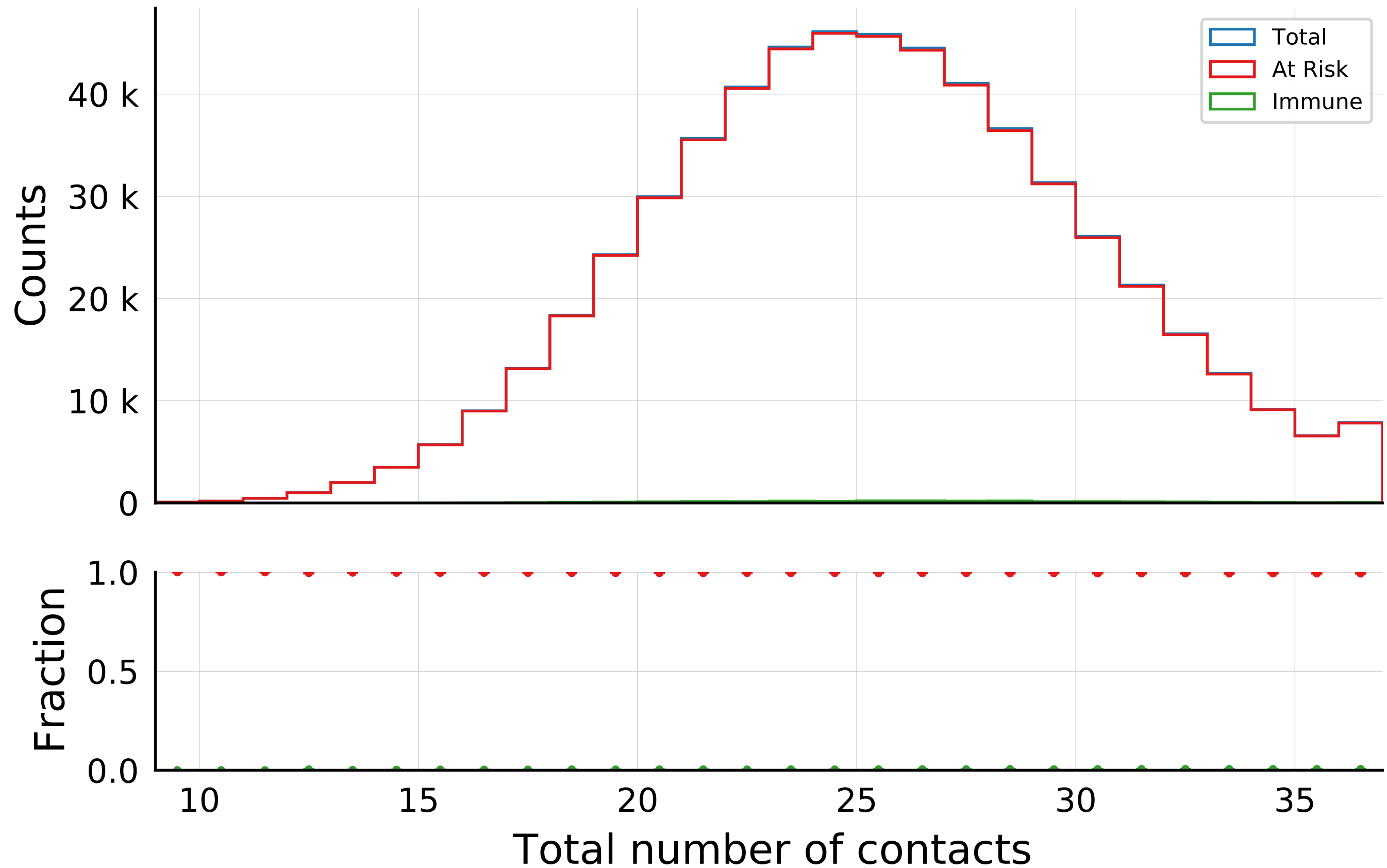$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
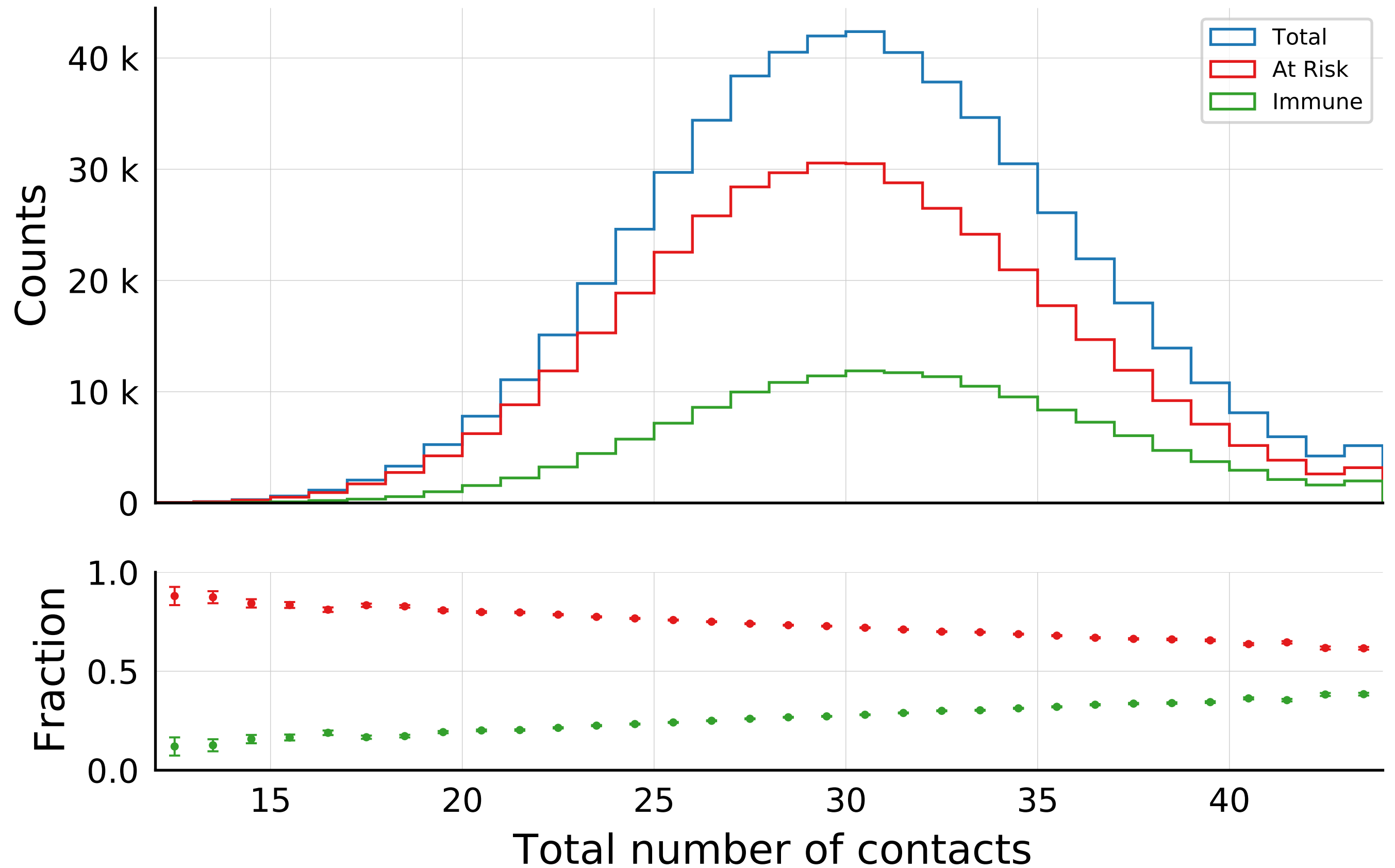$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 25.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
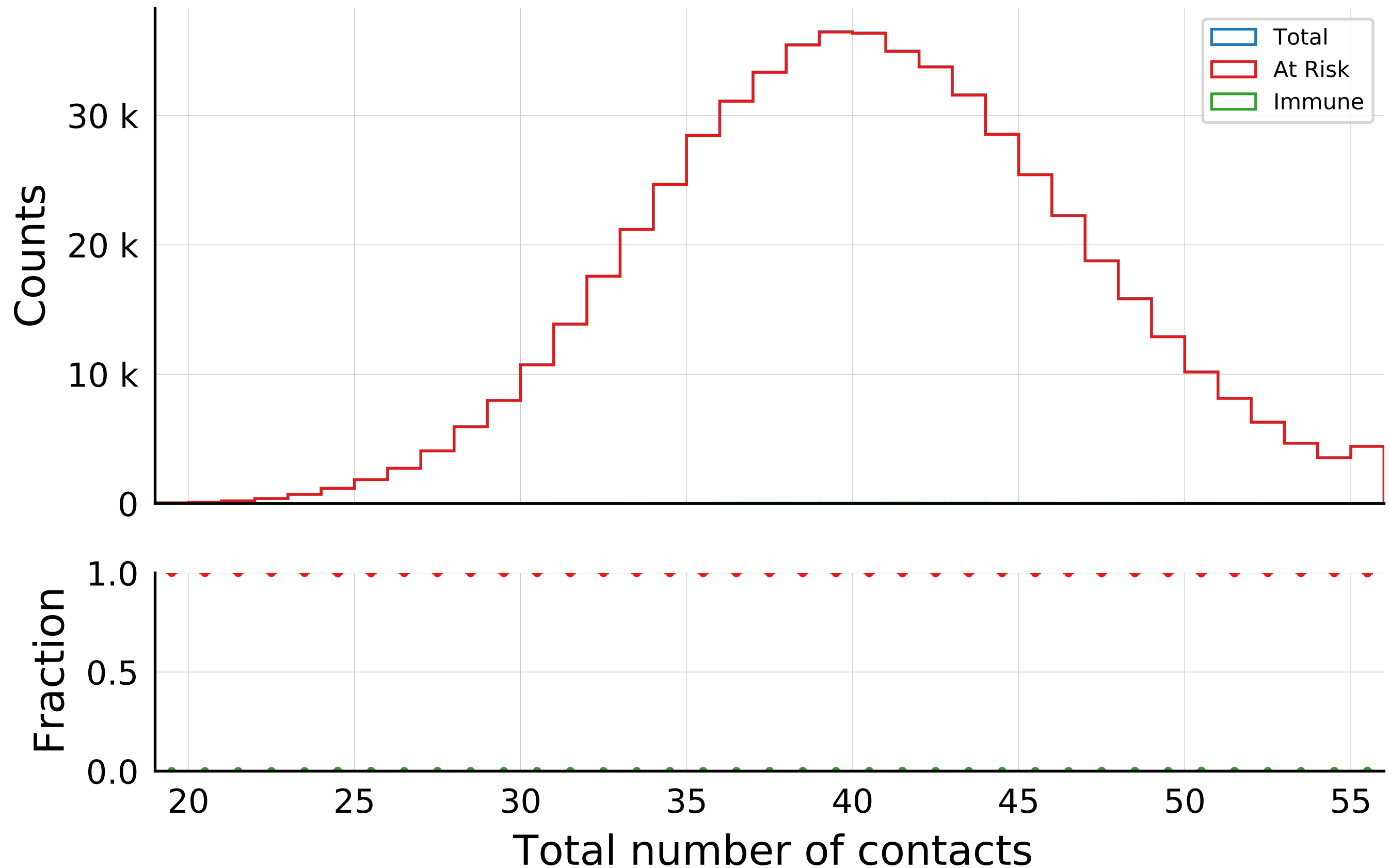$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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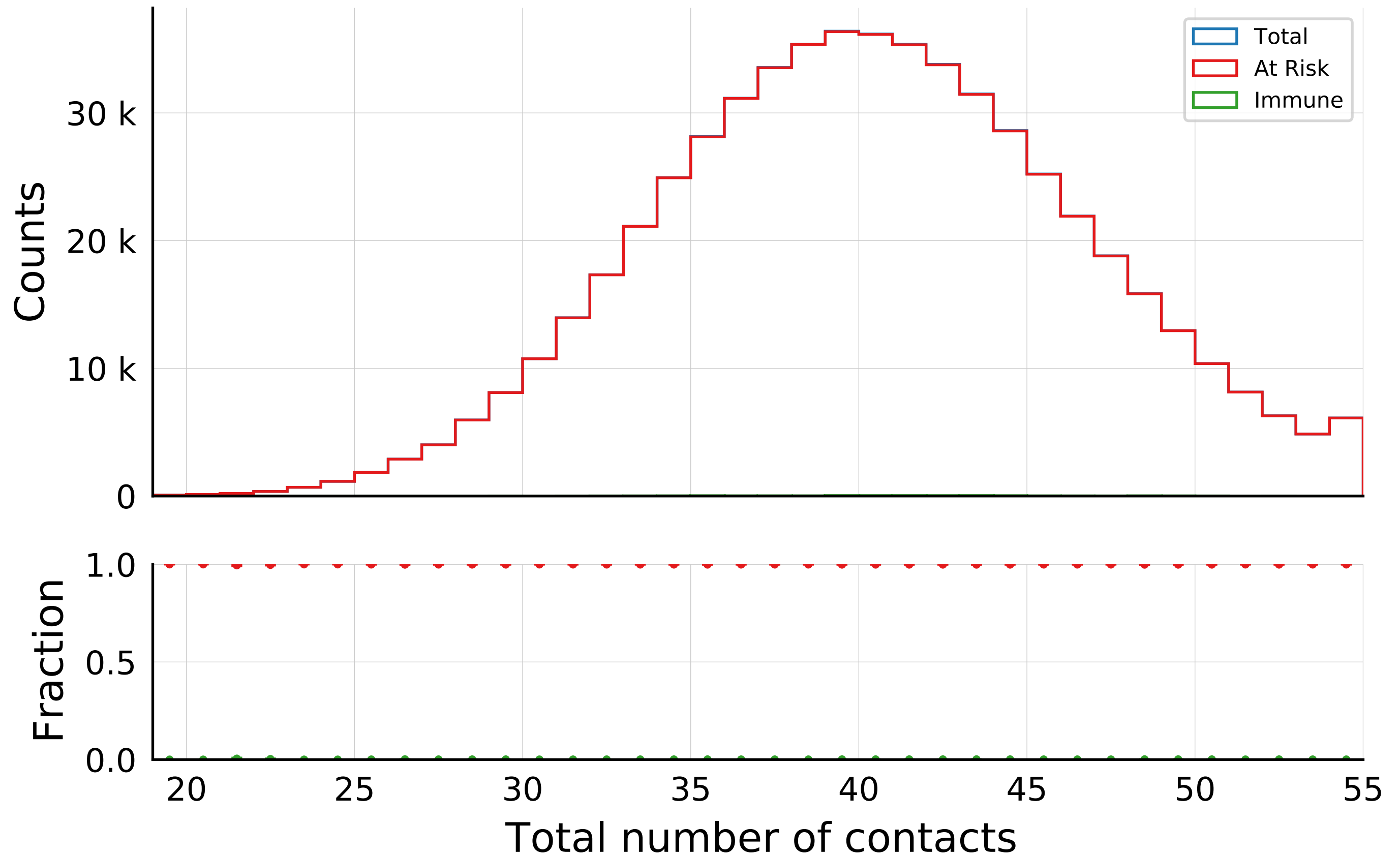$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.5$
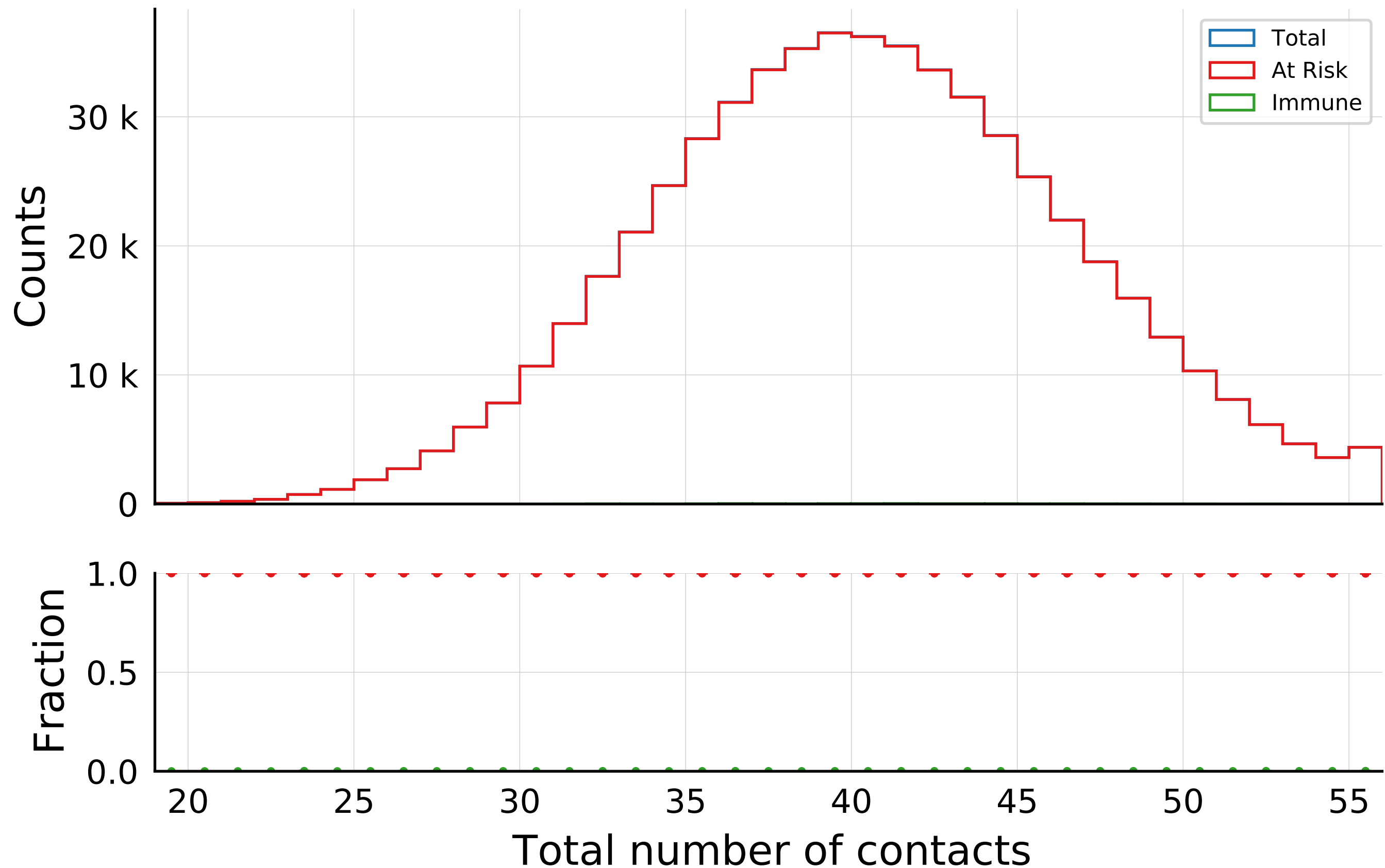$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.005,\ \sigma_\beta = 1.0$
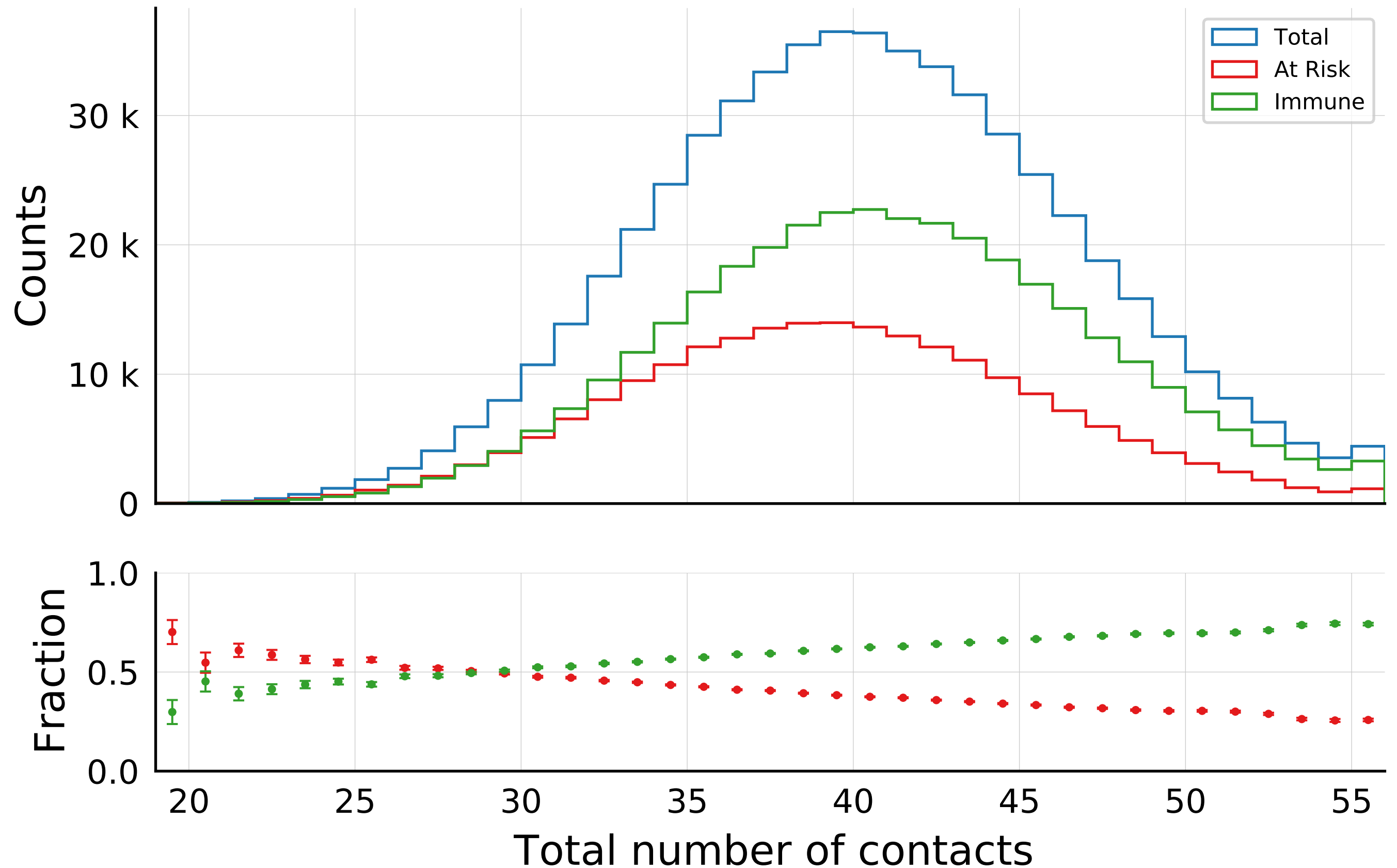$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
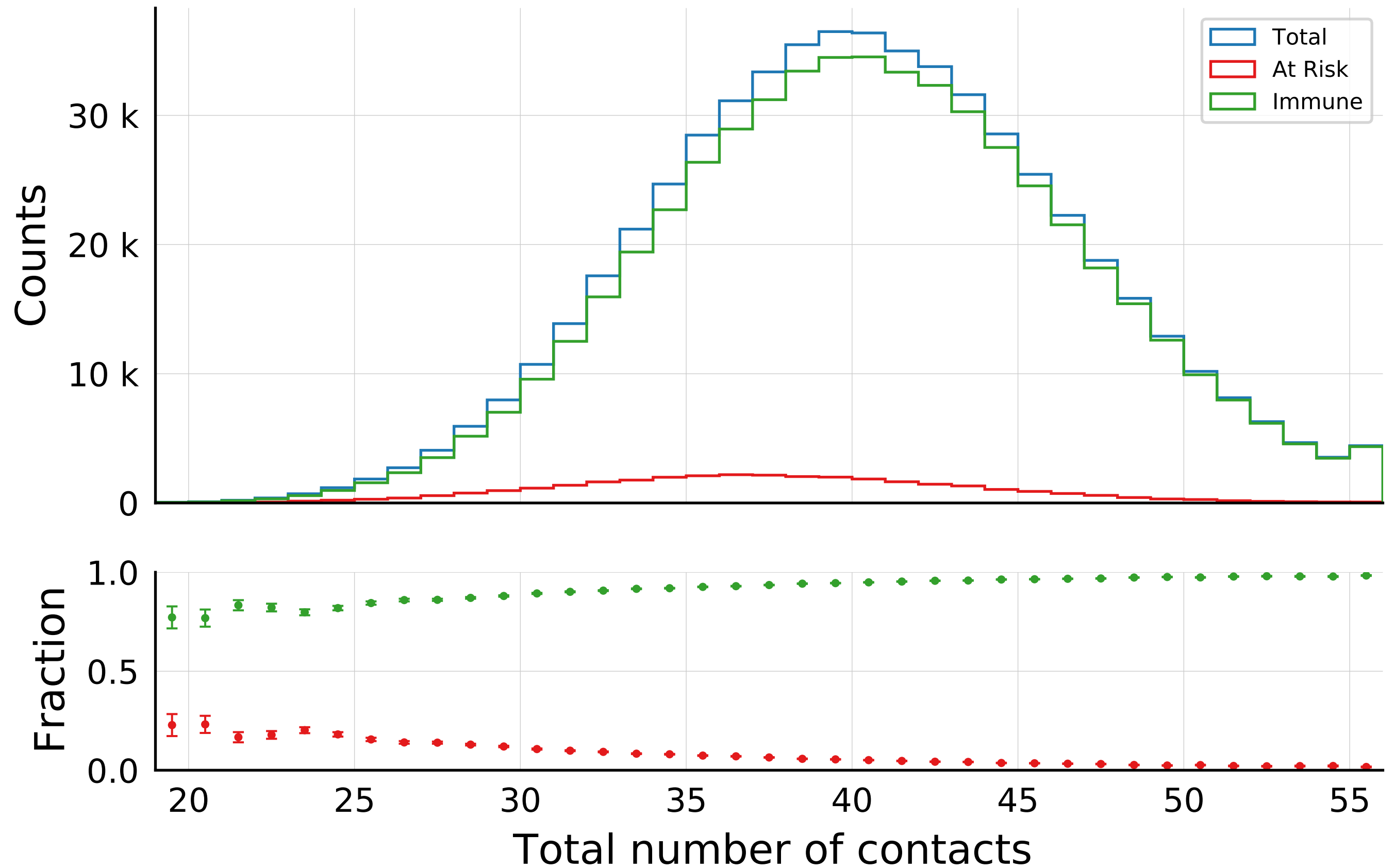$\lambda_E = 0.5$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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$\lambda_E = 1.0$, $\lambda_I = 0.5$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
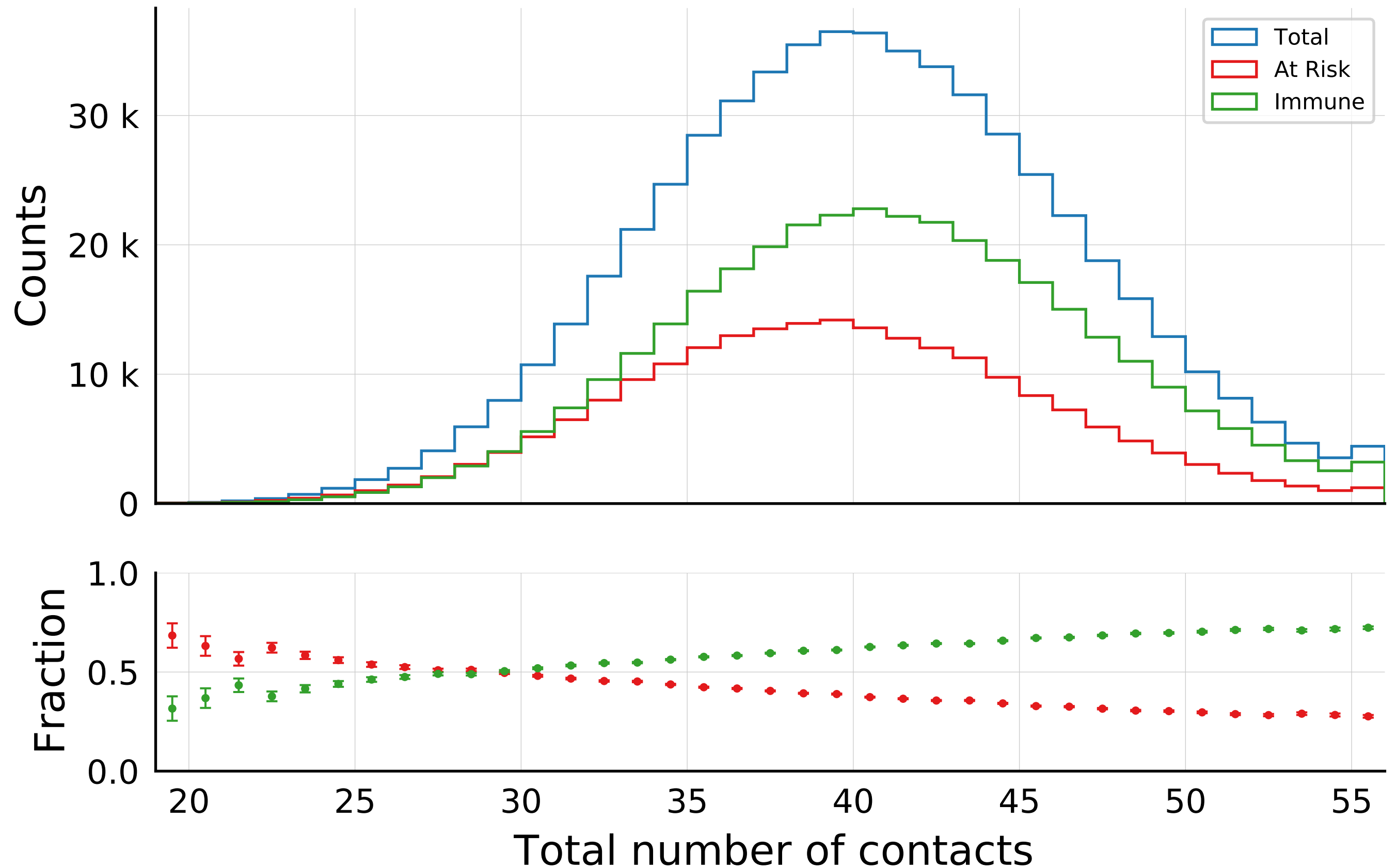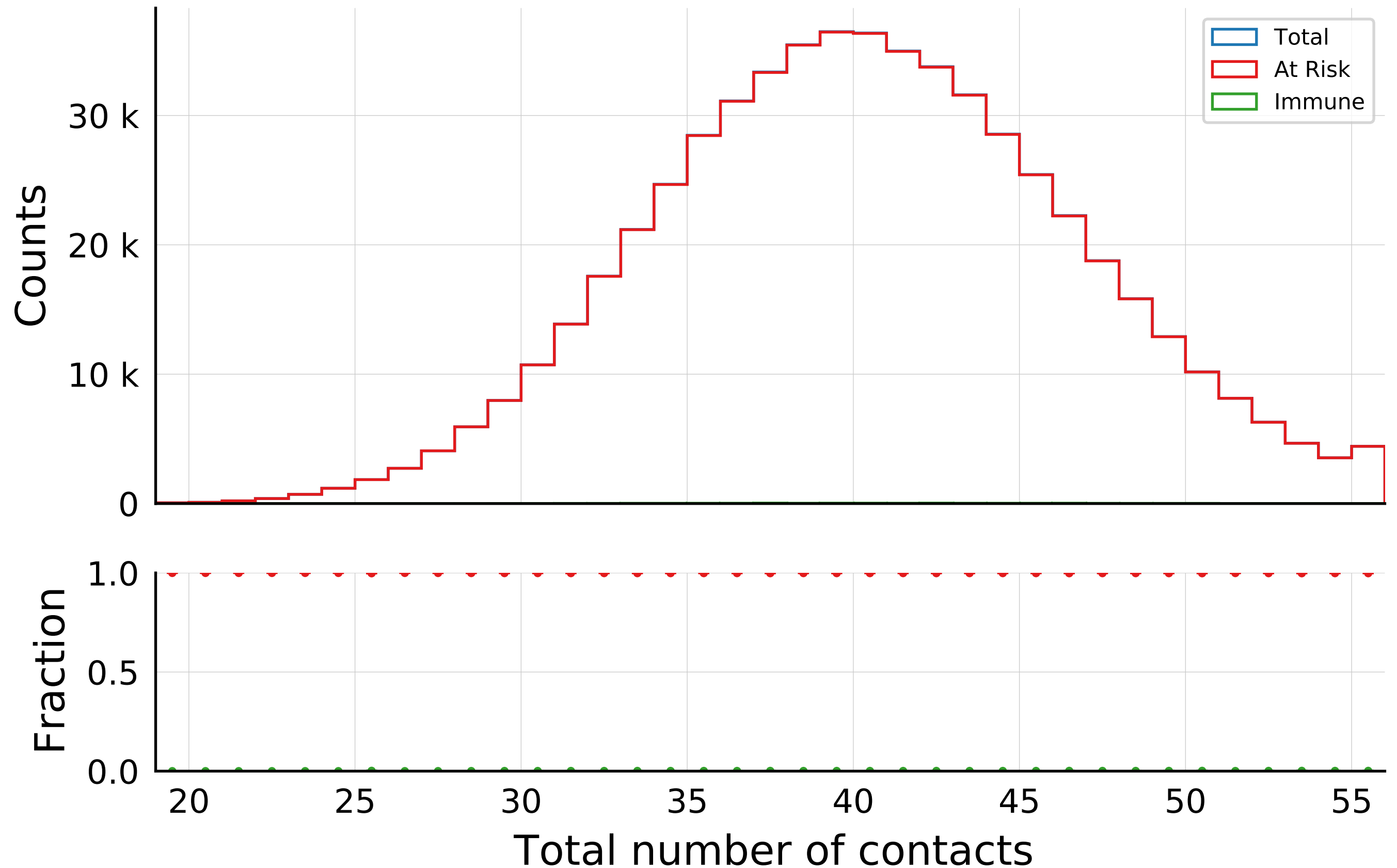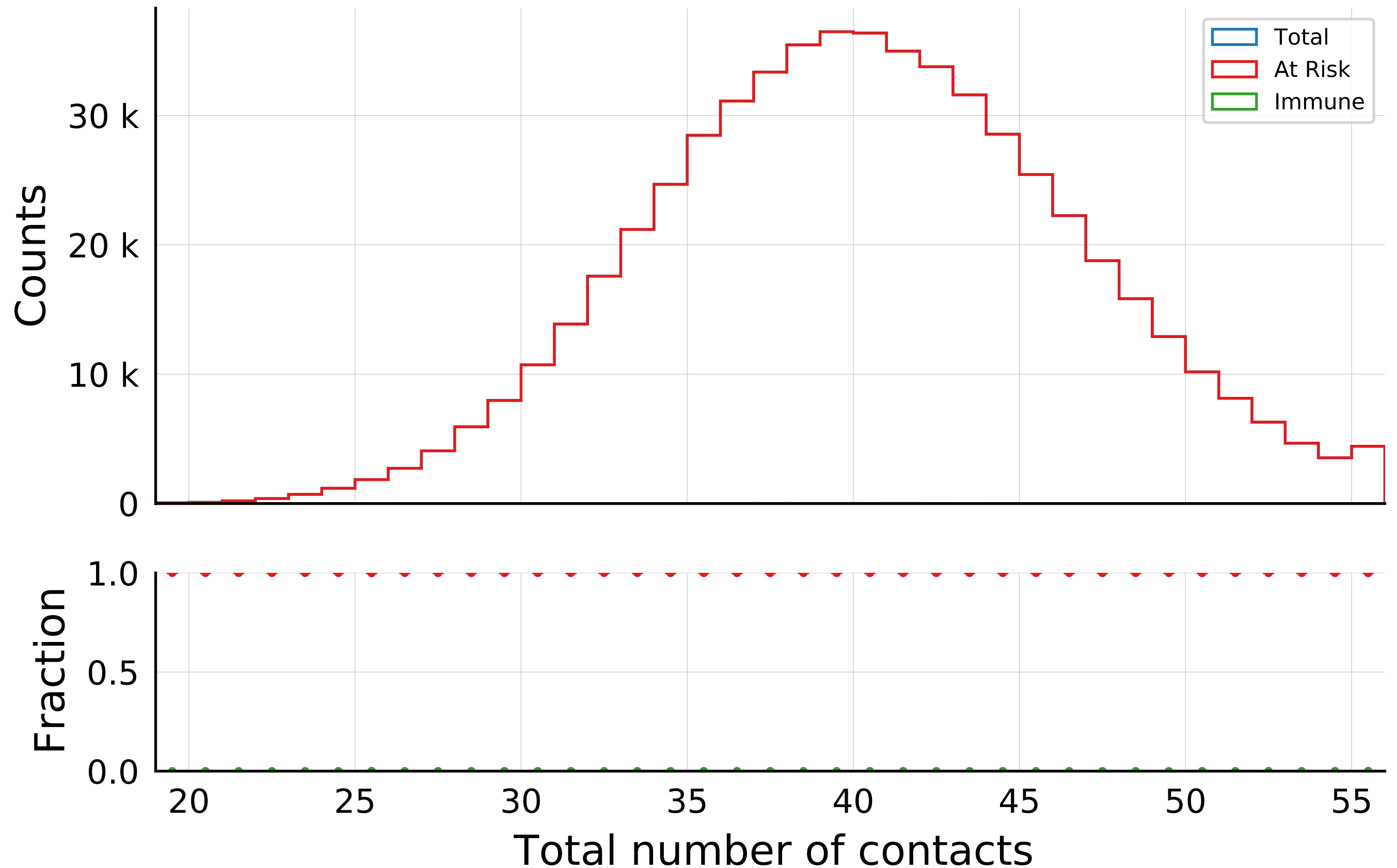$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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$\lambda_E = 1.0$, $\lambda_I = 2.0$, algo $= 2$, $ID = 0$

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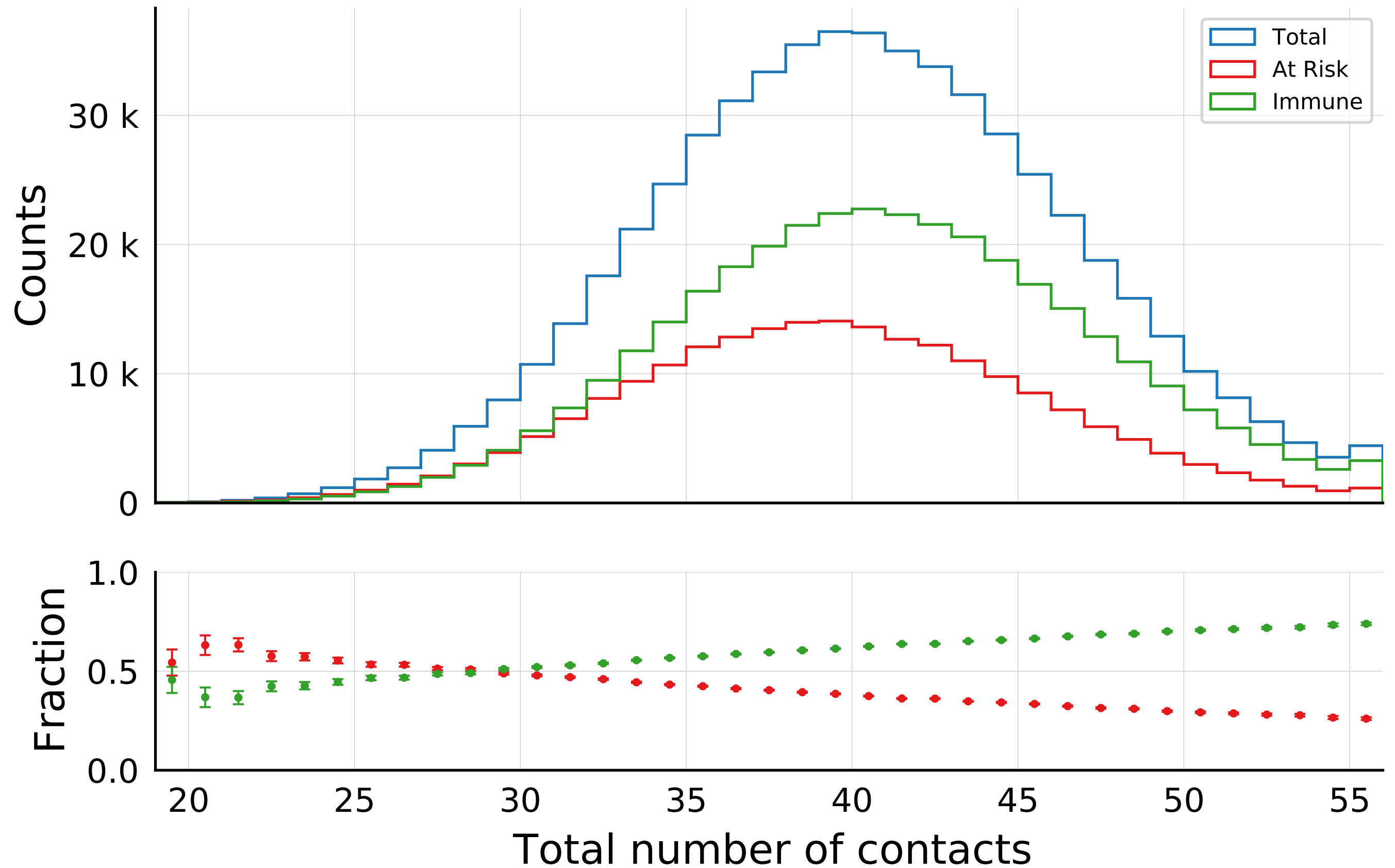$\lambda_E = 1.0$, $\lambda_I = 4.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
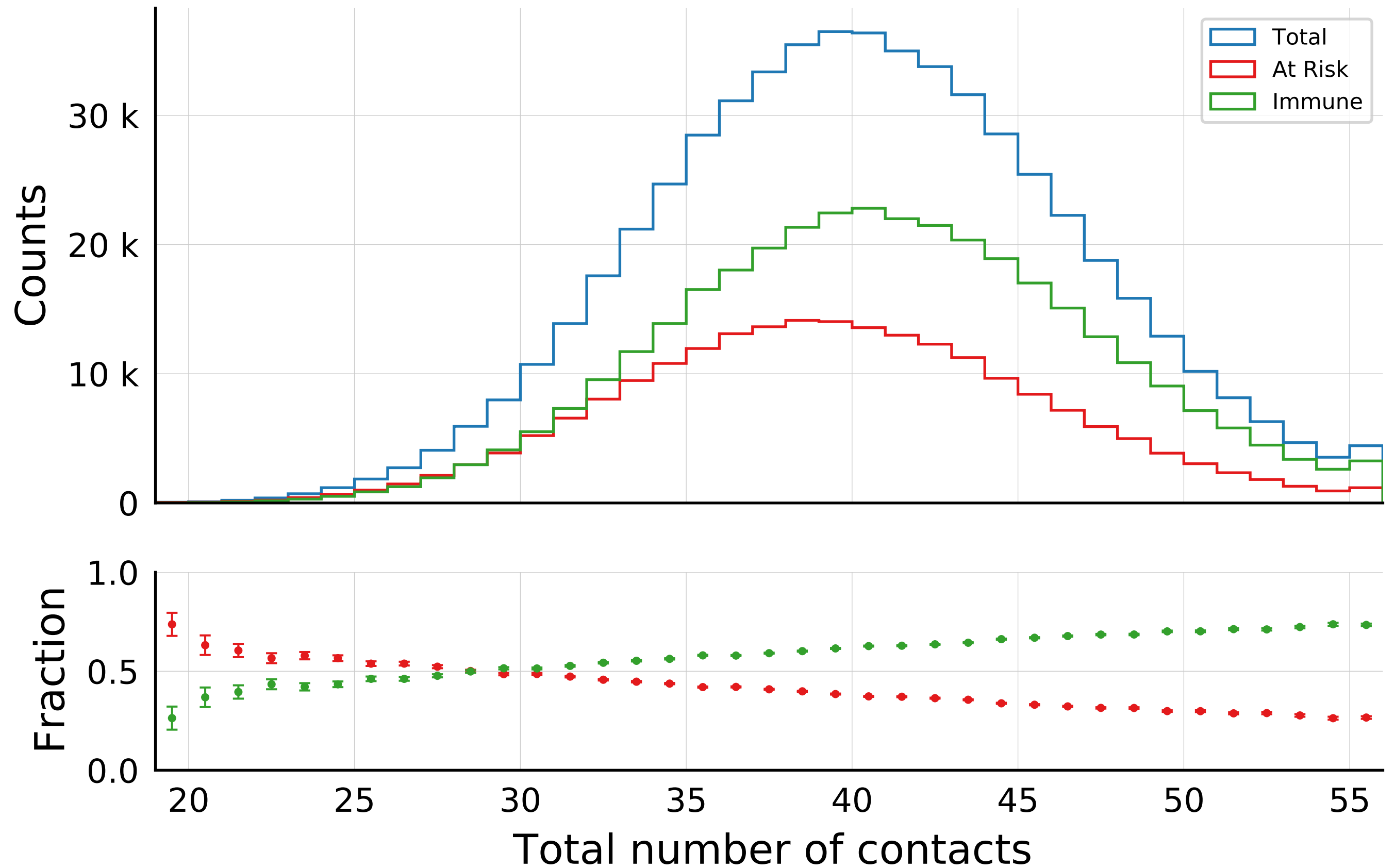$\lambda_E = 2.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
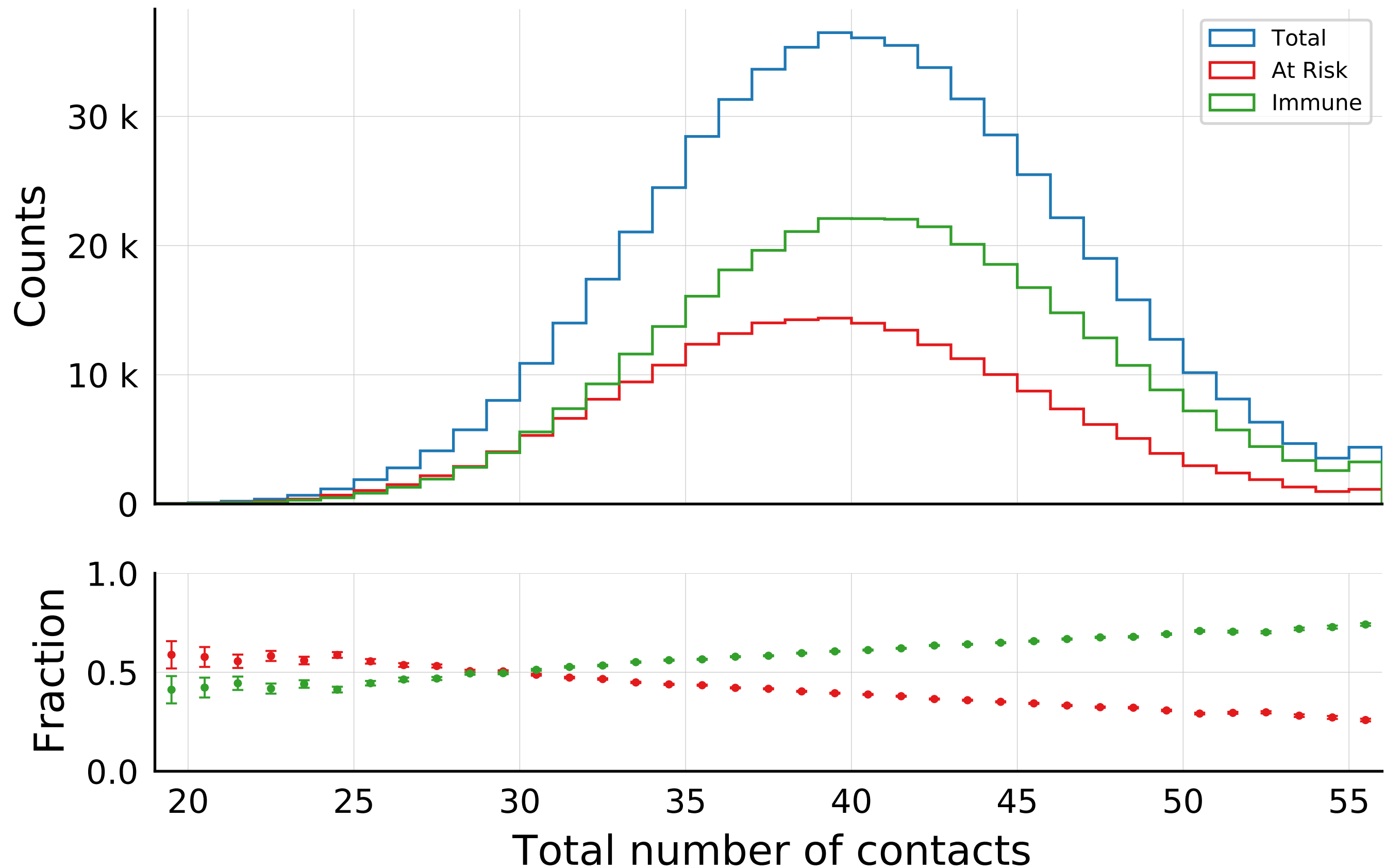$\lambda_E = 4.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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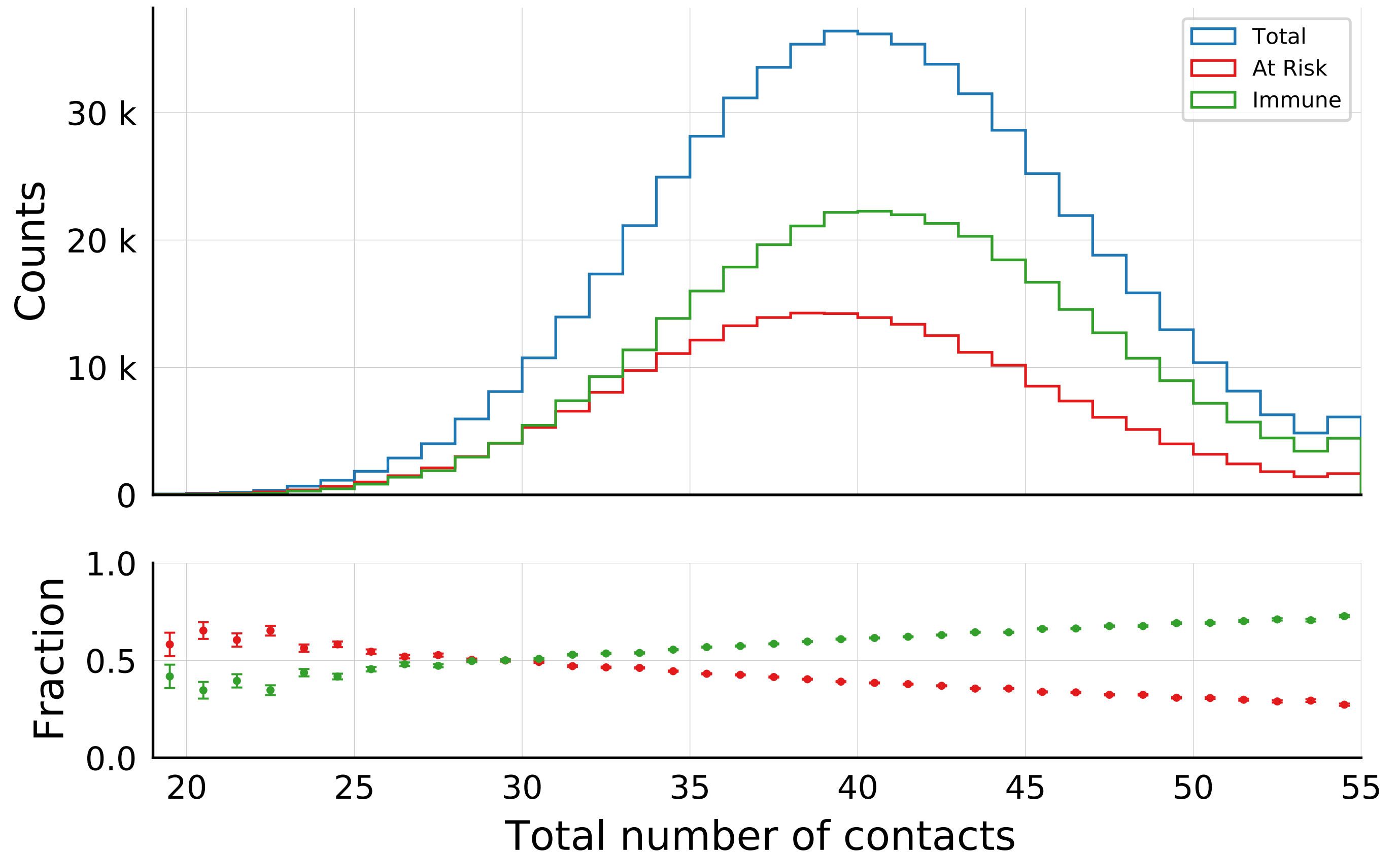$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$
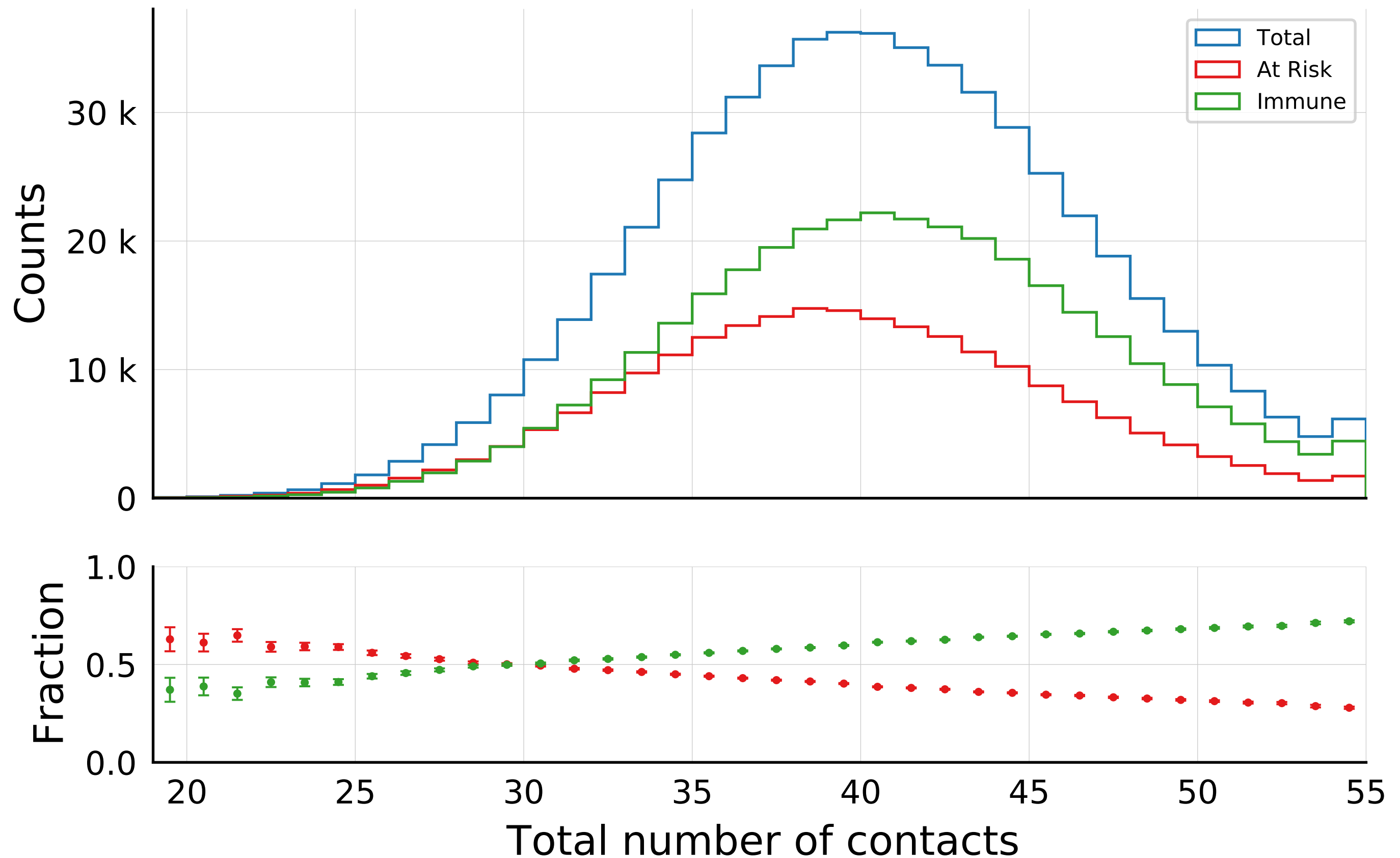$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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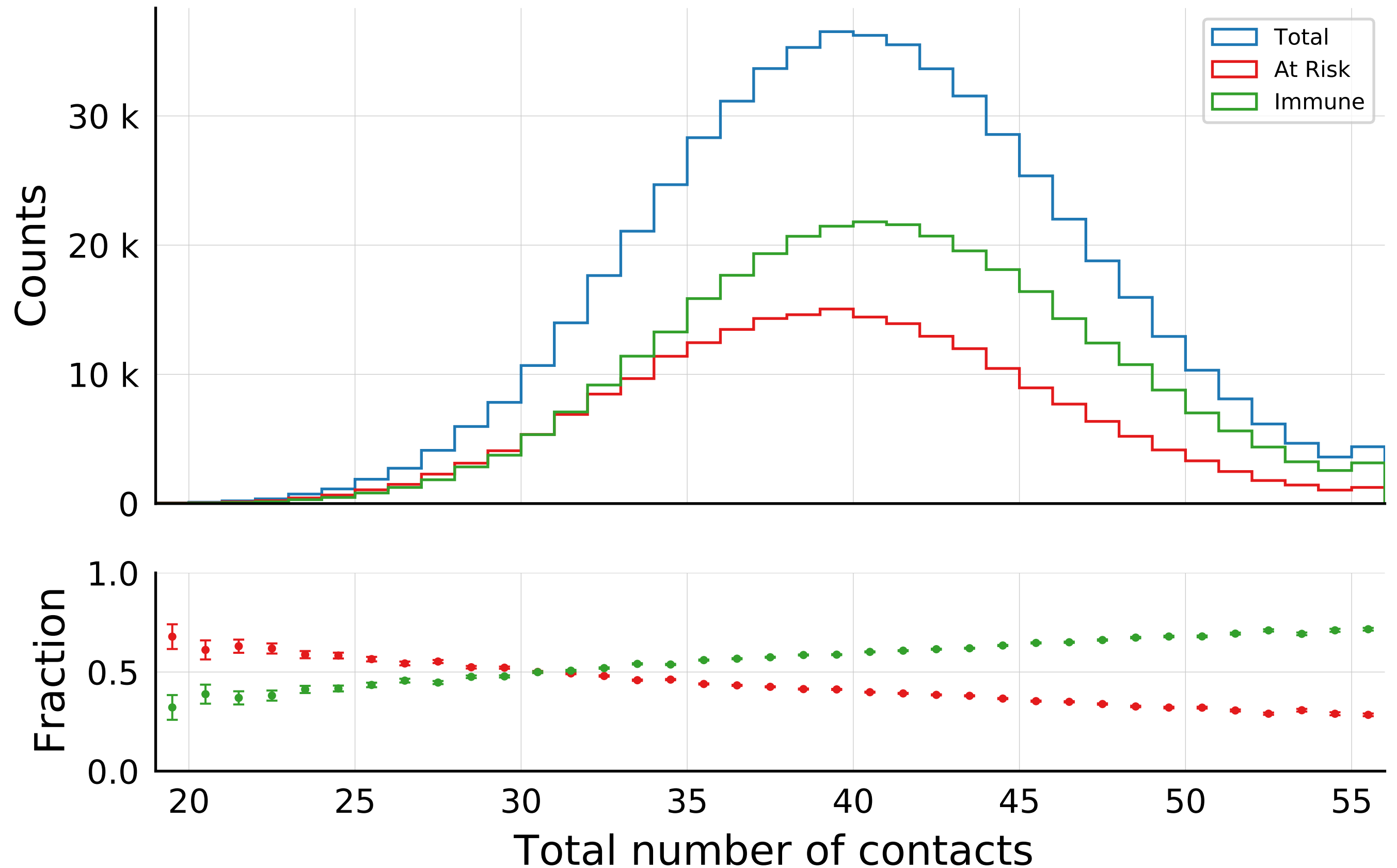$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$

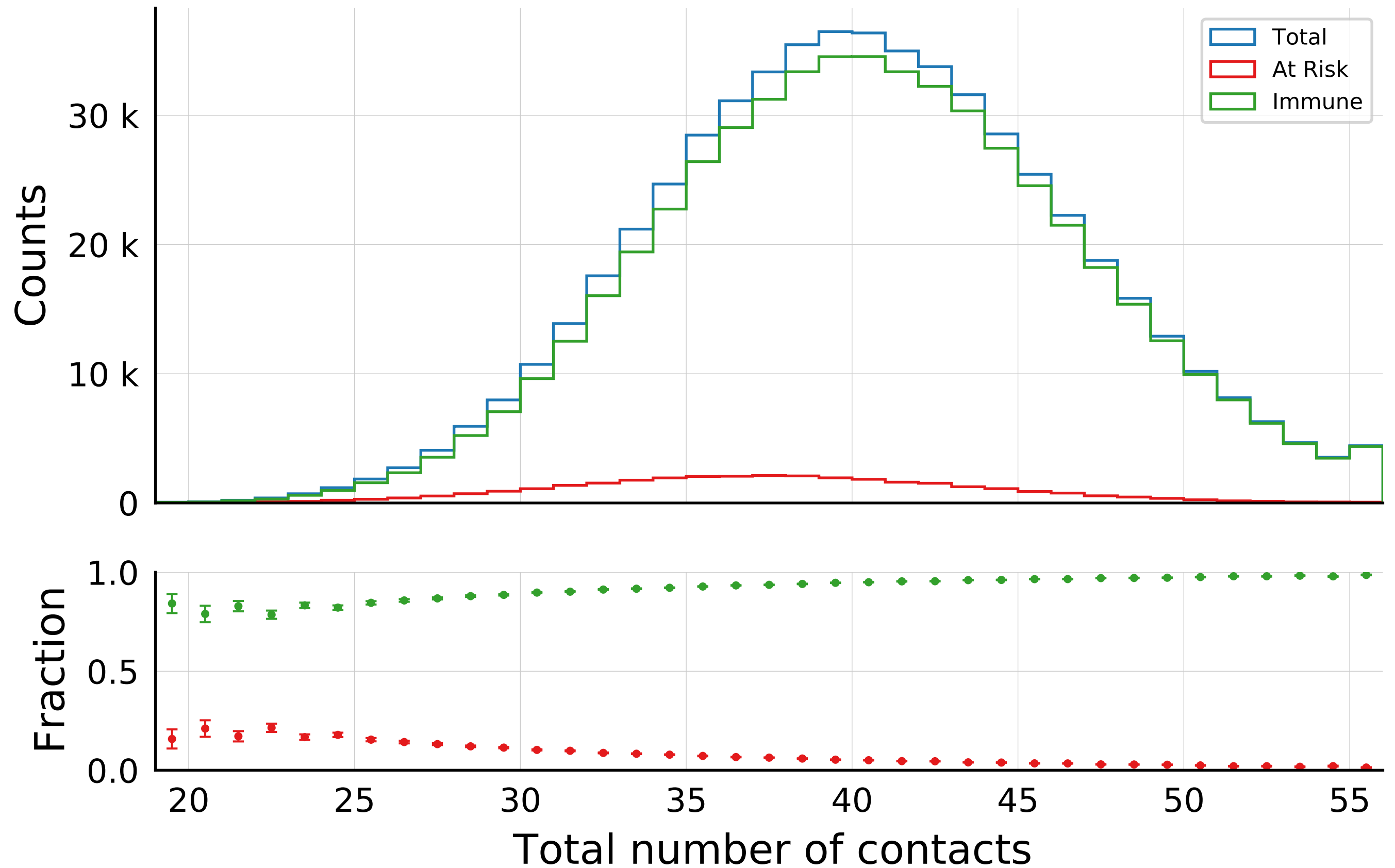$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

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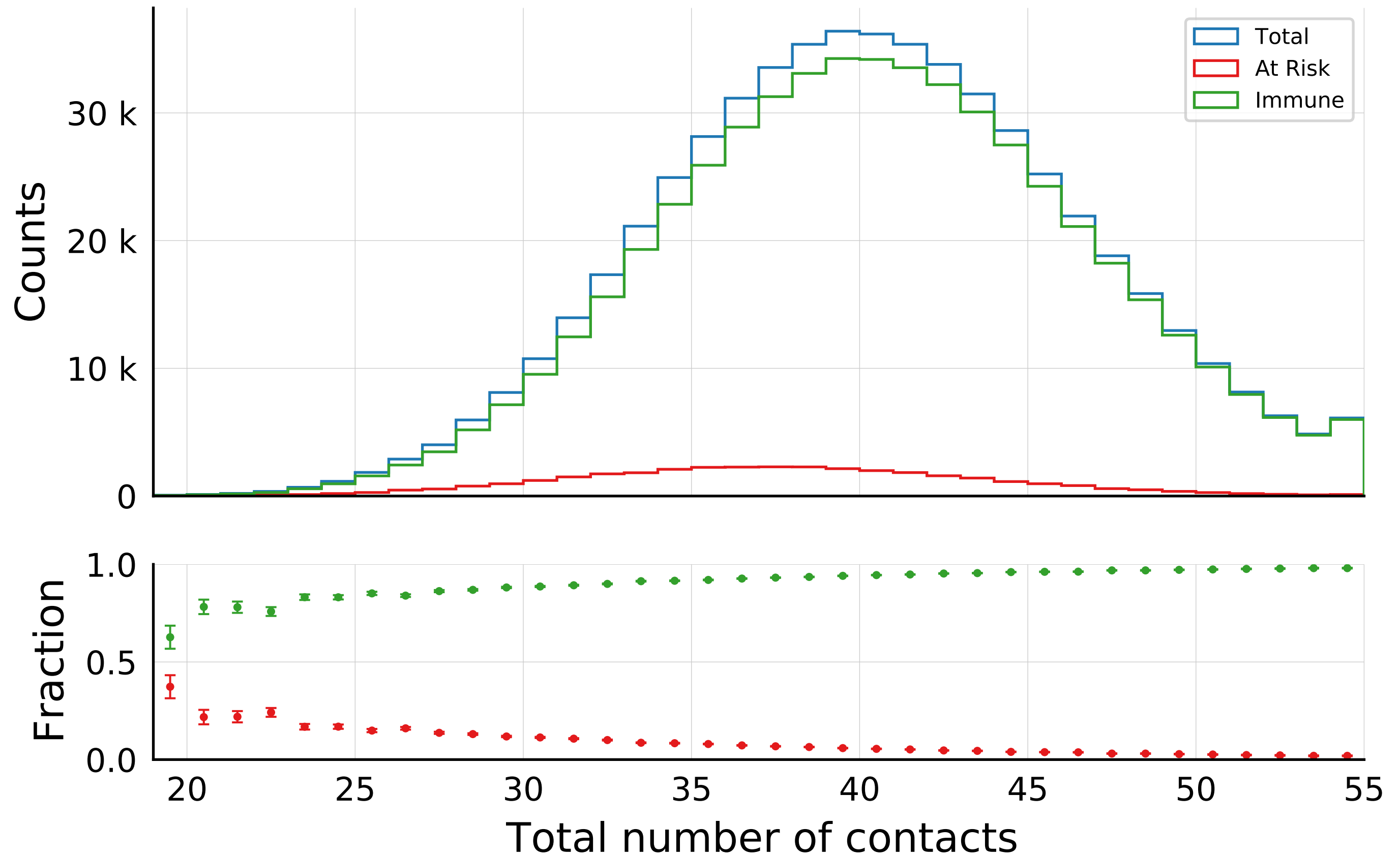$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.5$
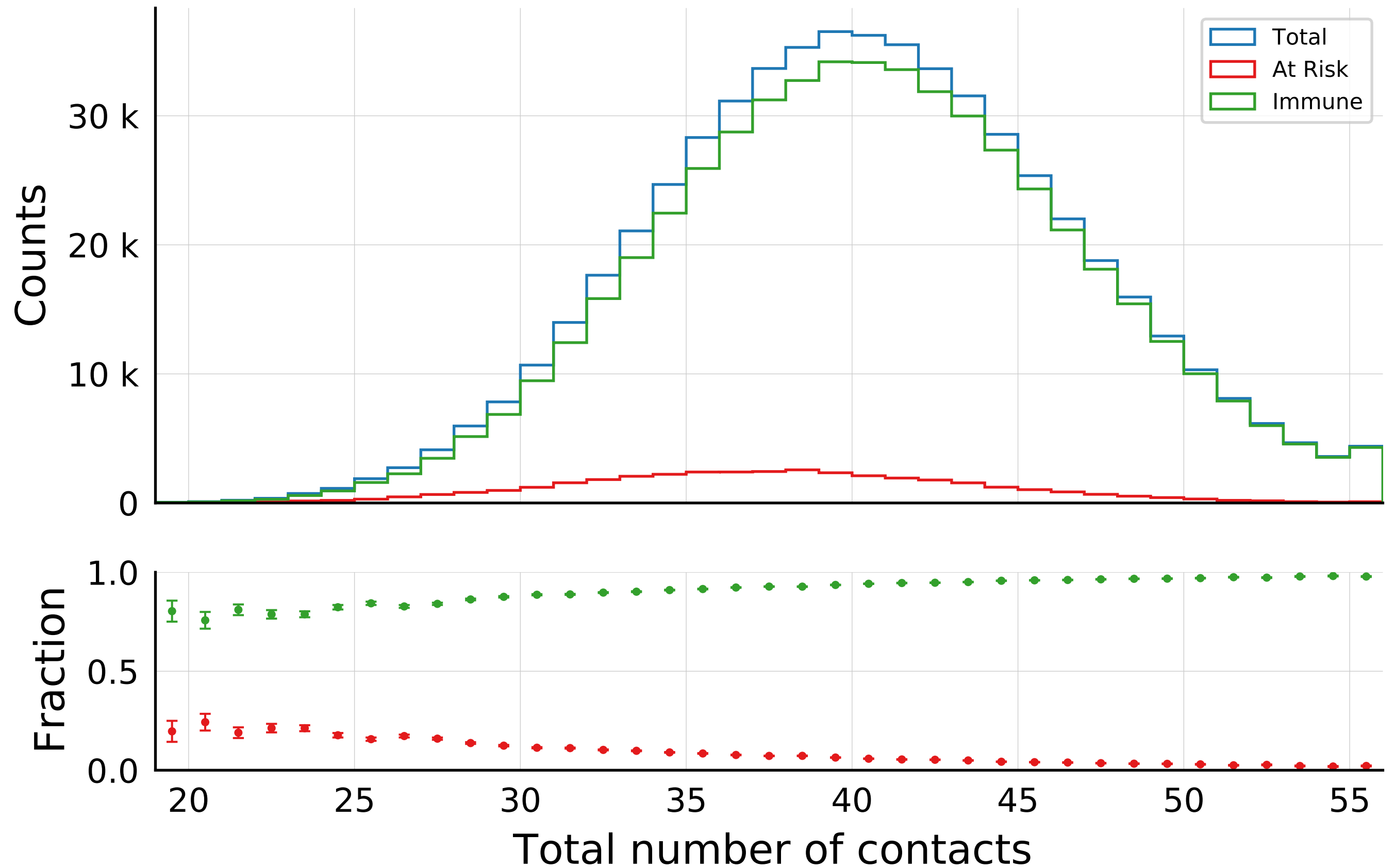$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
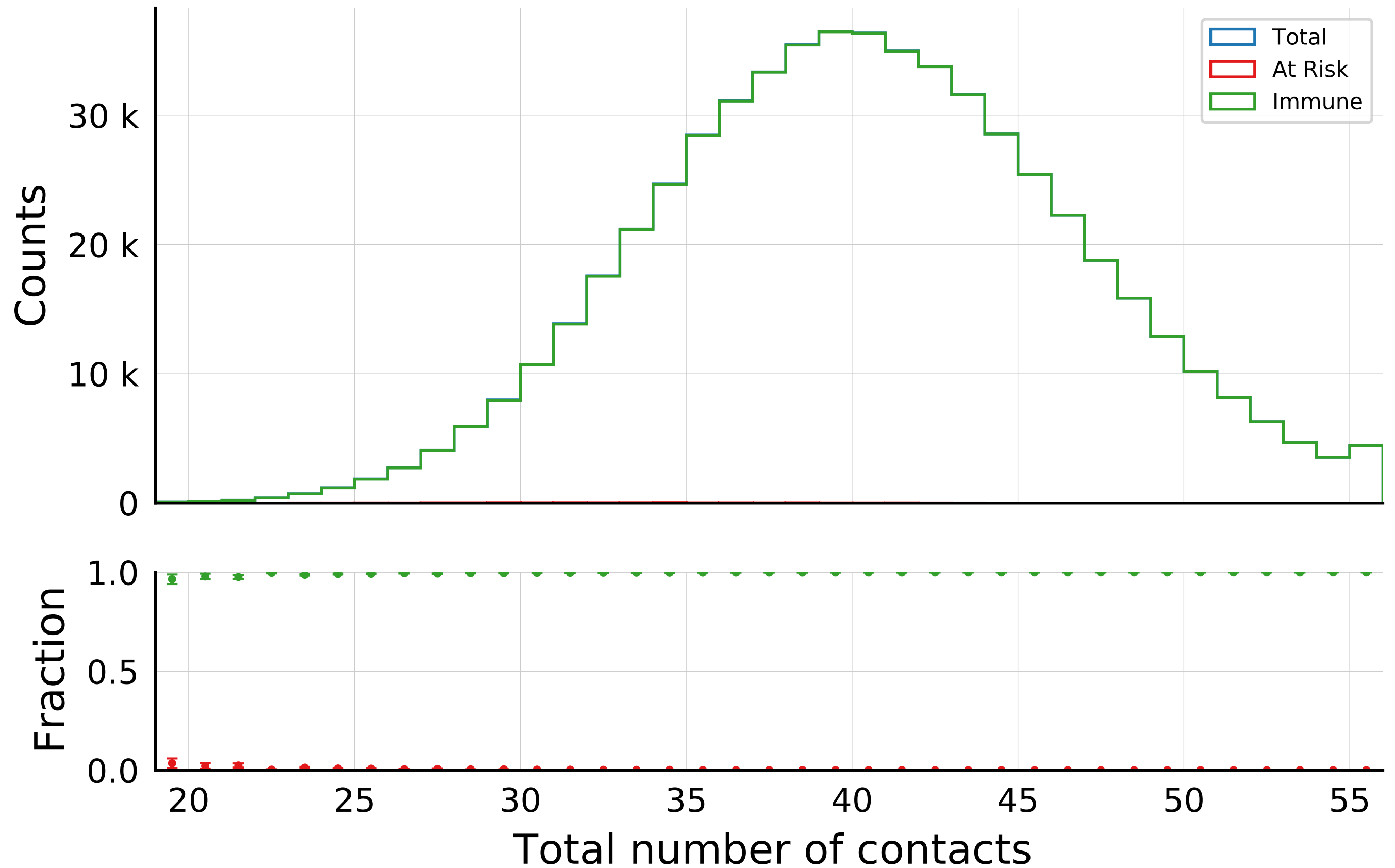$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 0.0$
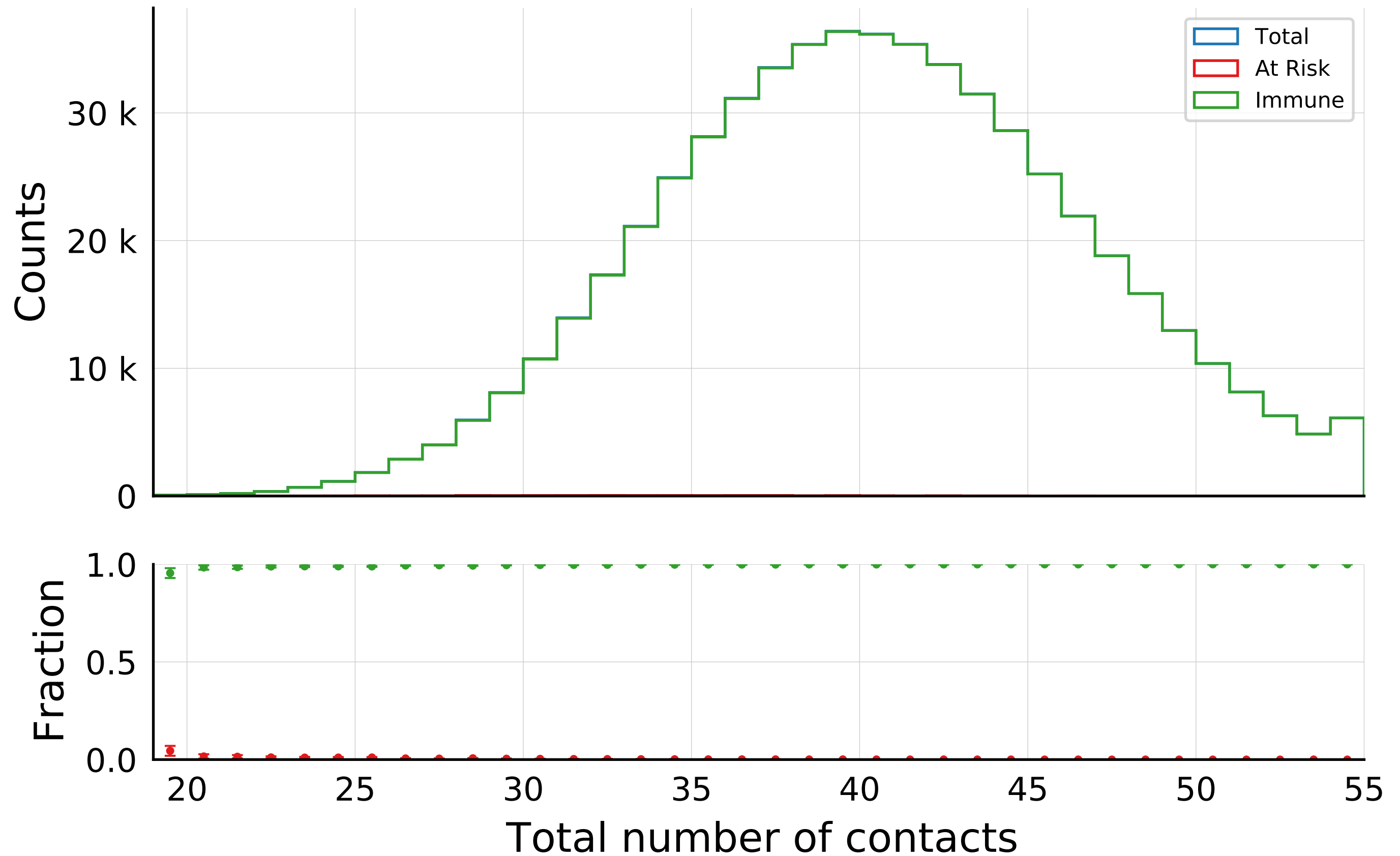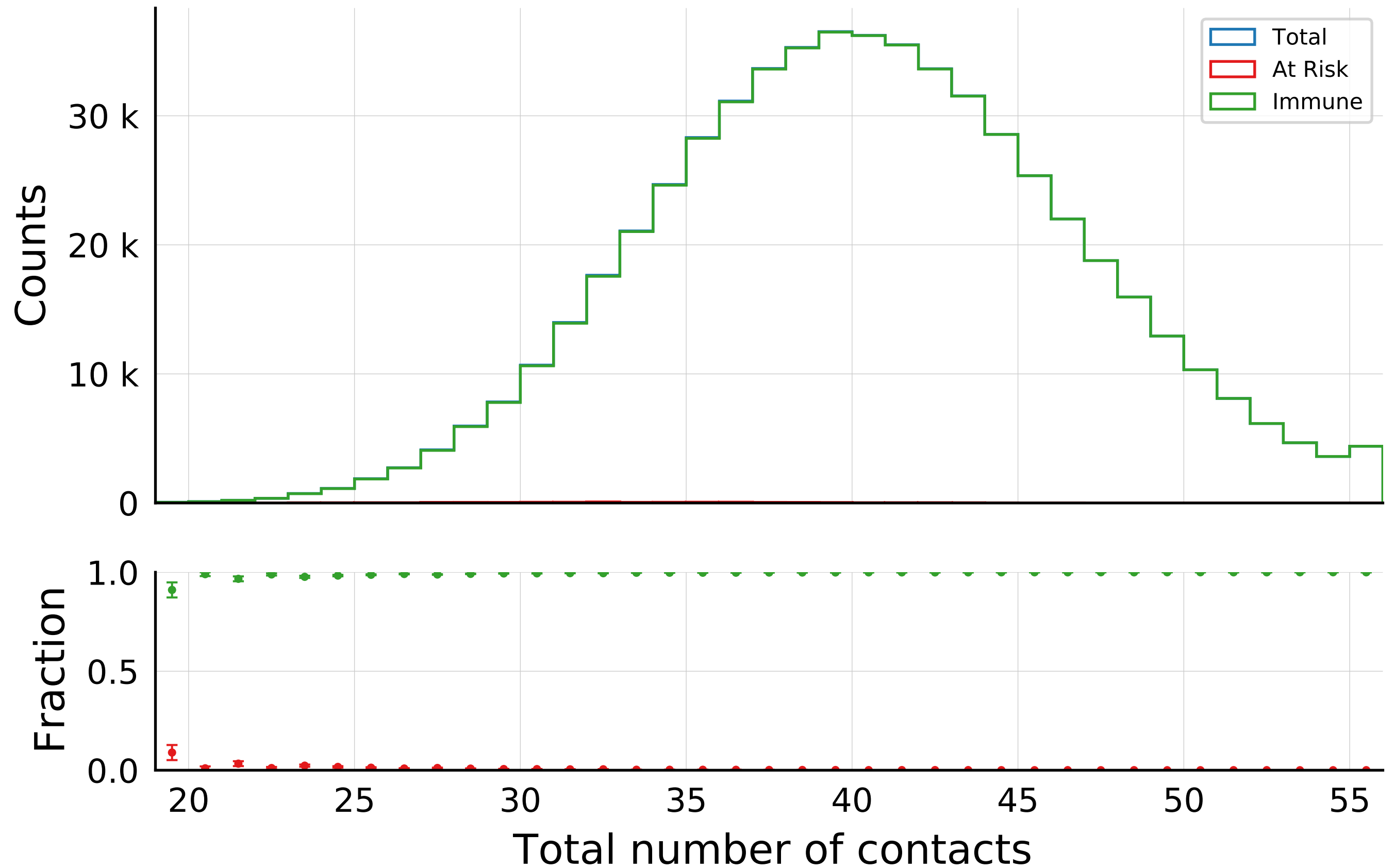$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 0.5$
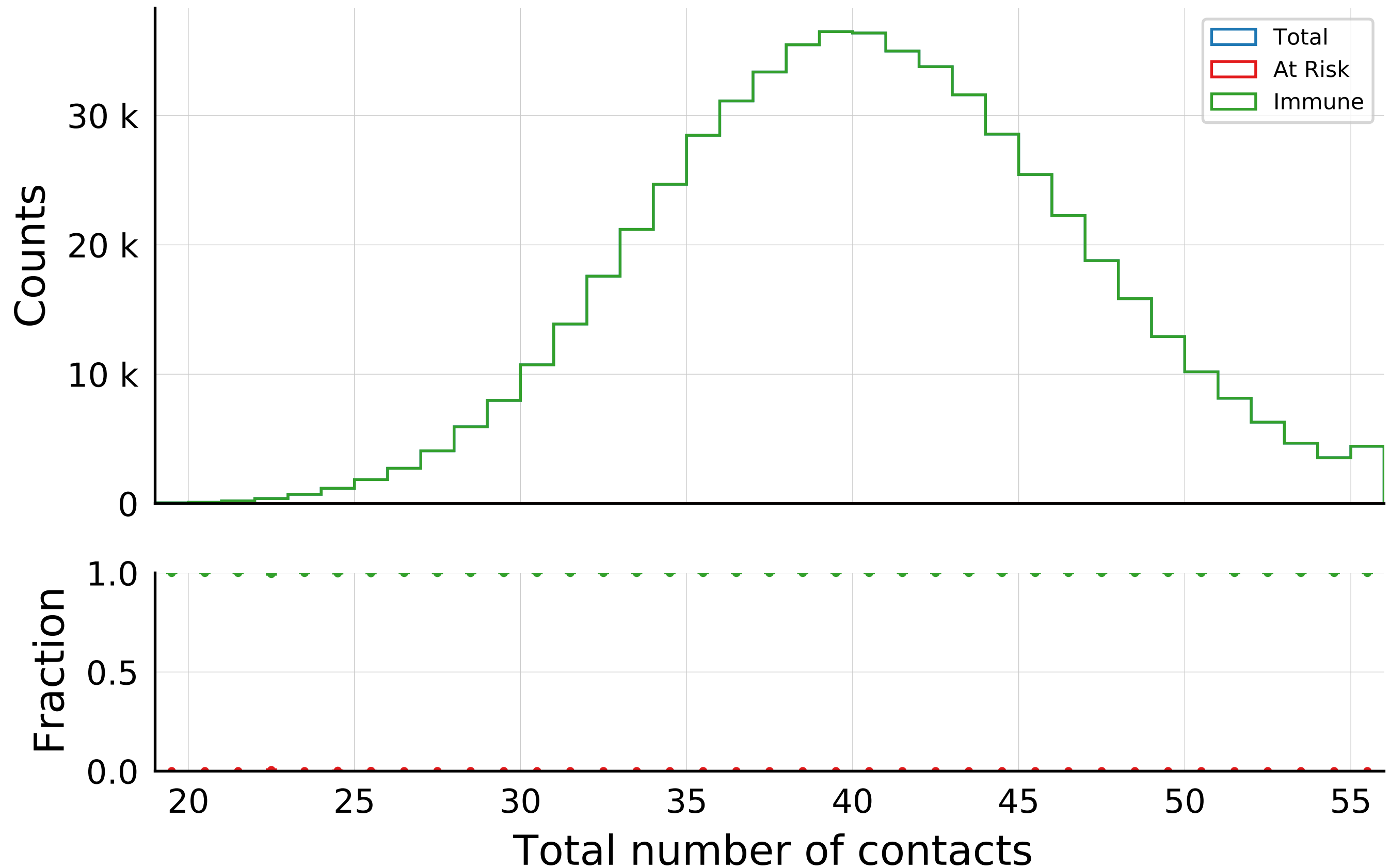$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\mathrm{tot}} = 580K$, $N_{\mathrm{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.075$, $\sigma_\beta = 0.0$
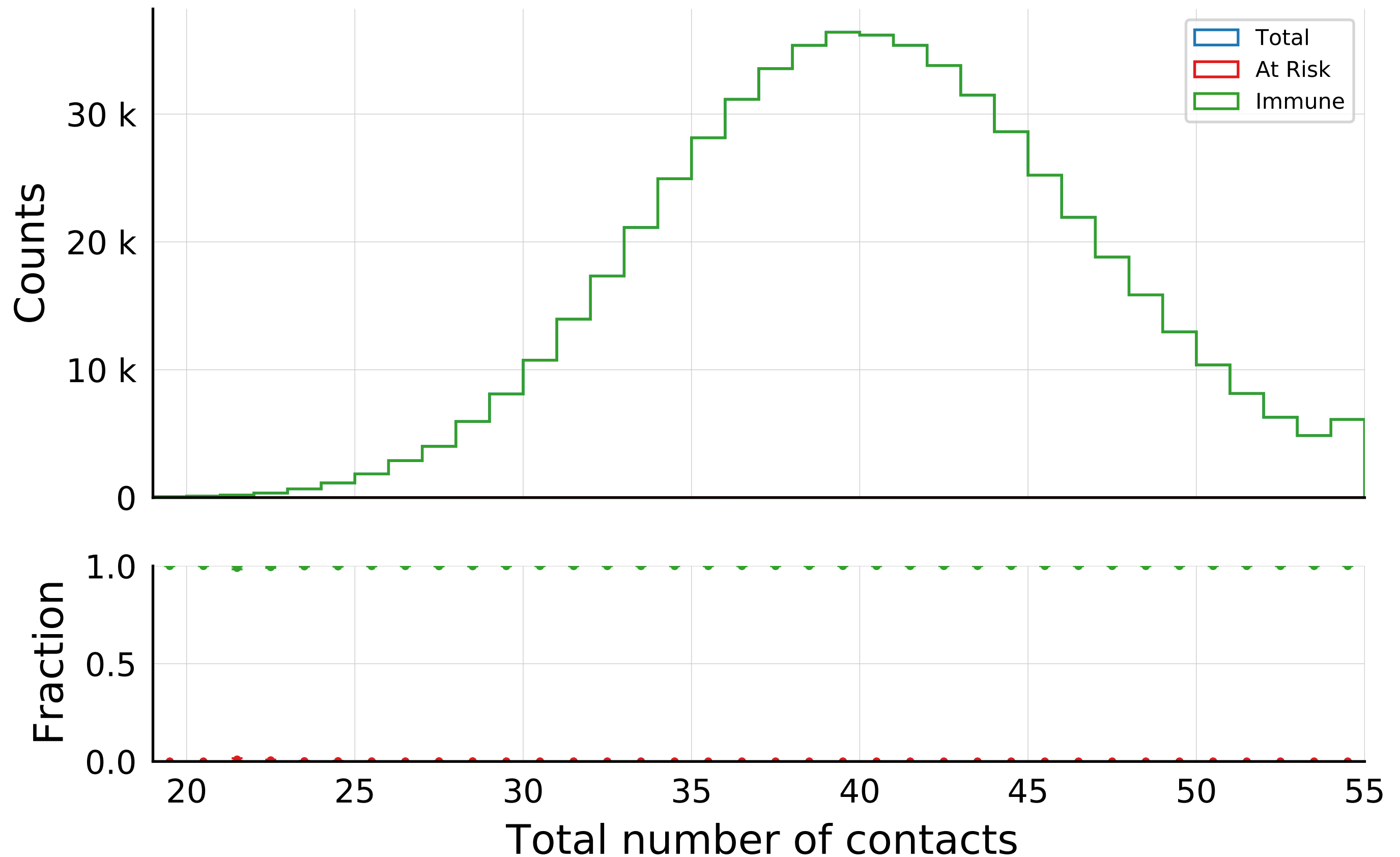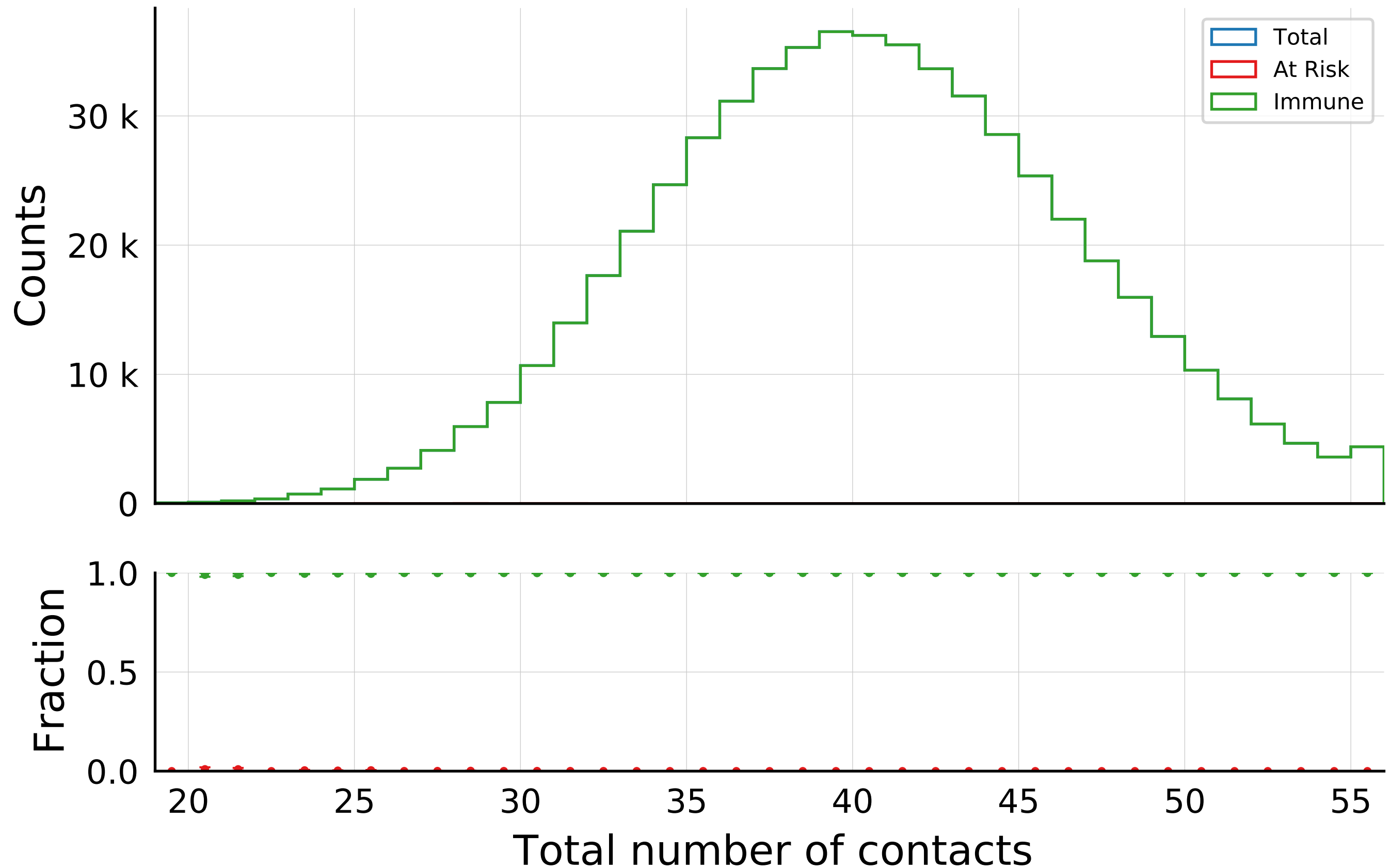$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.075$, $\sigma_\beta = 0.5$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K, \; N_{\text{init}} = 100, \; \rho = 0.0, \; \epsilon_\rho = 0.04, \; \mu = 40.0, \; \sigma_\mu = 0.0, \; \beta = 0.075, \; \sigma_\beta = 1.0$
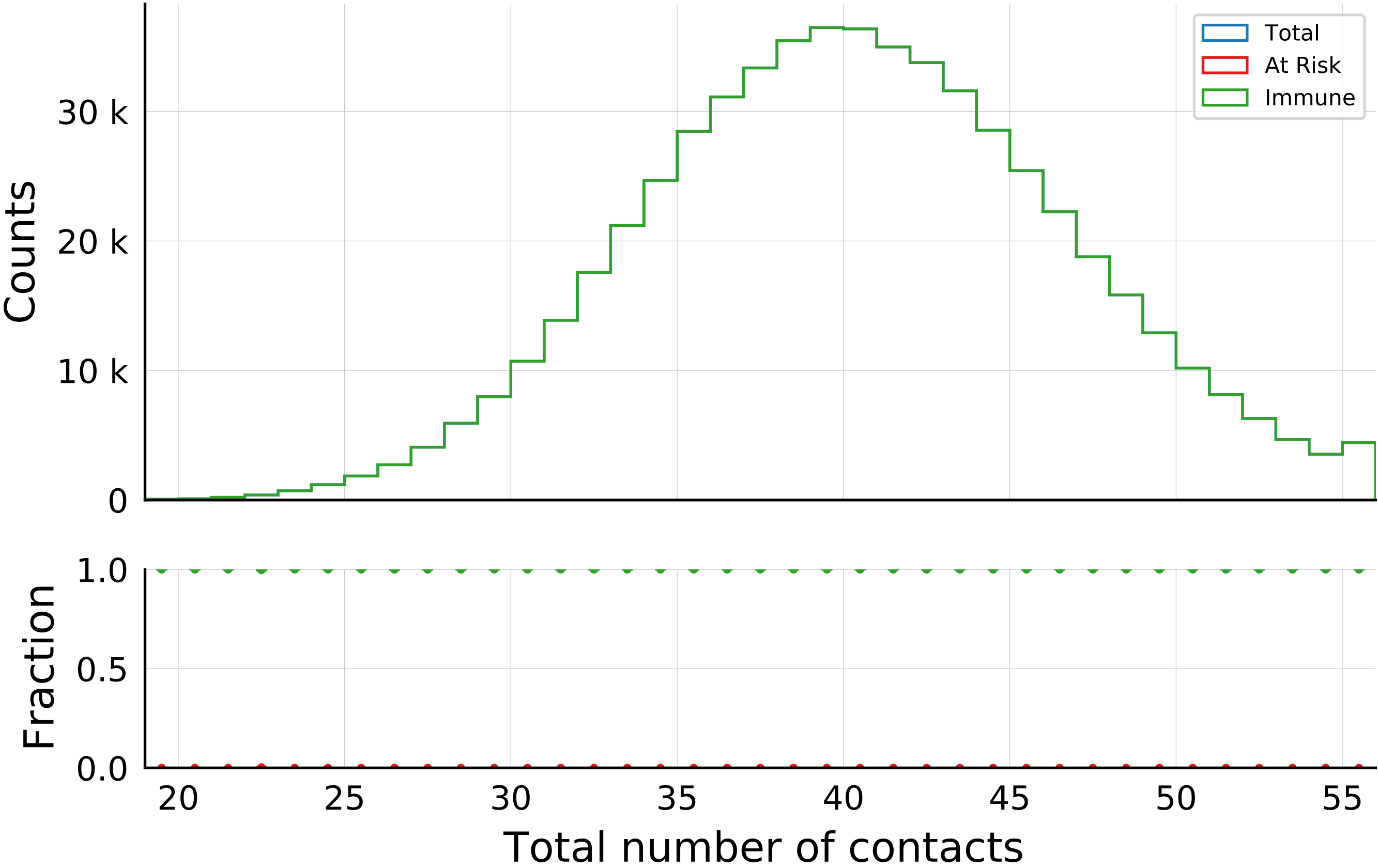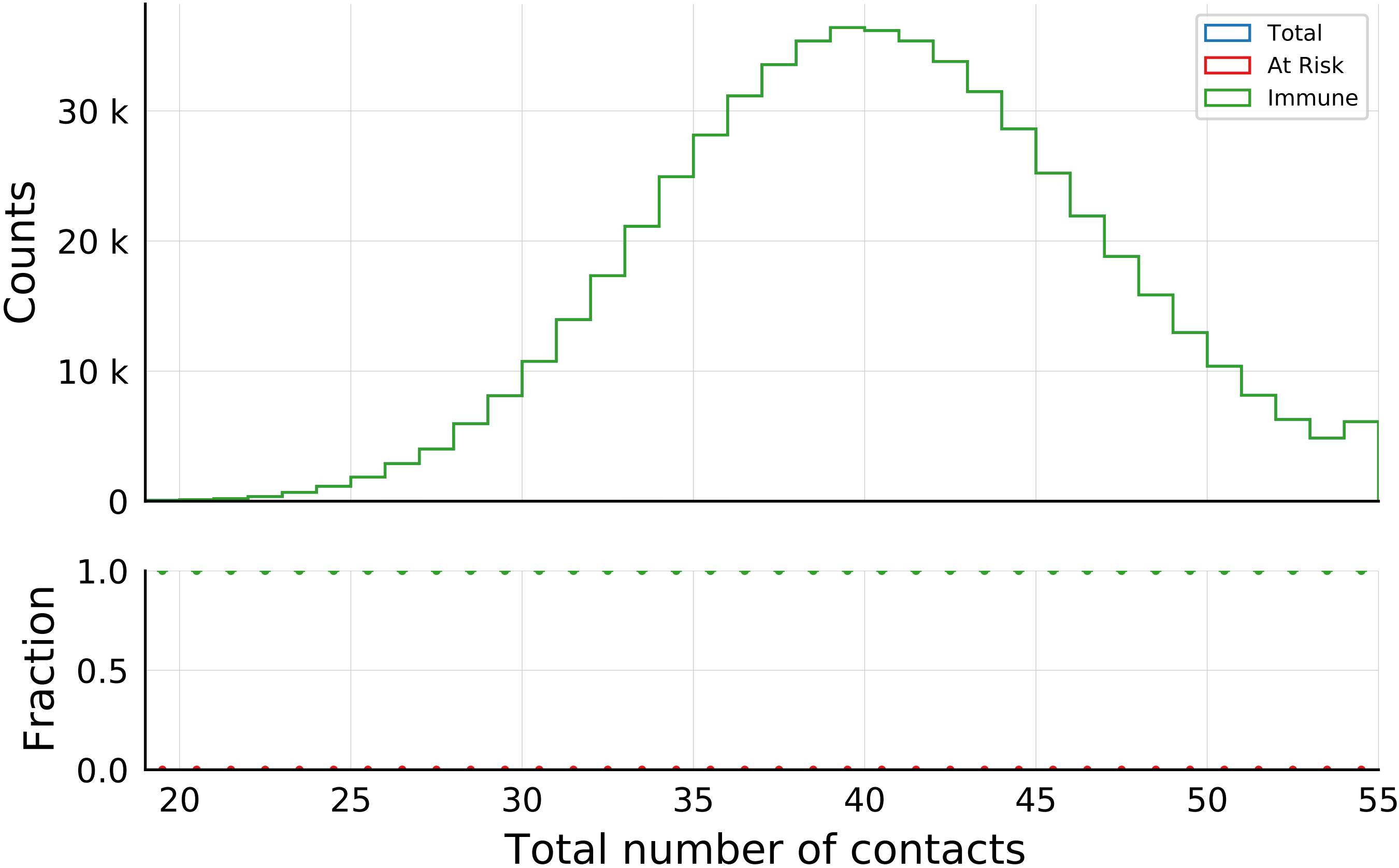$\lambda_E = 1.0, \; \lambda_I = 1.0, \; \text{algo} = 2, \; ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.1$, $\sigma_\beta = 0.0$
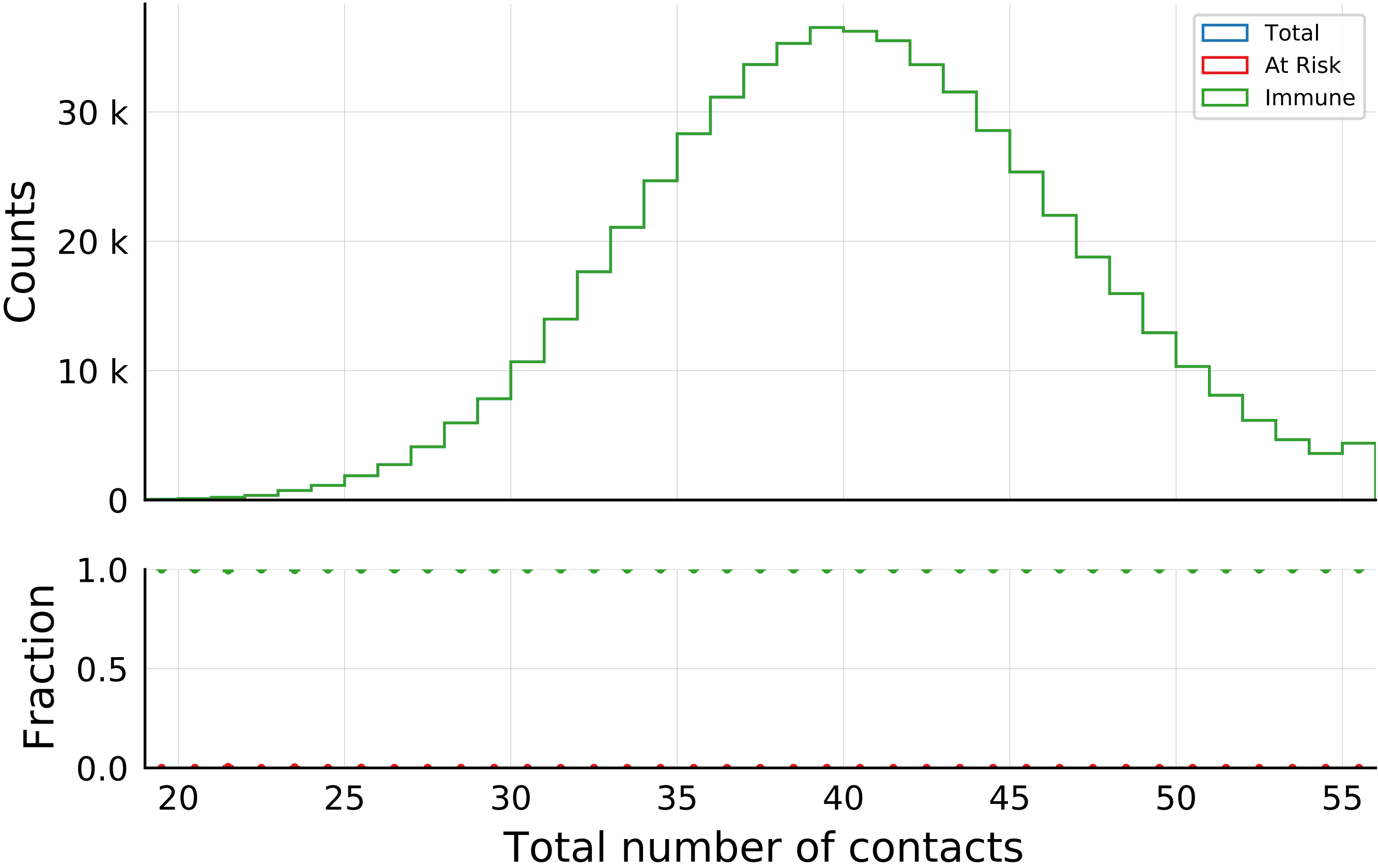$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.1,\ \sigma_\beta = 0.5$
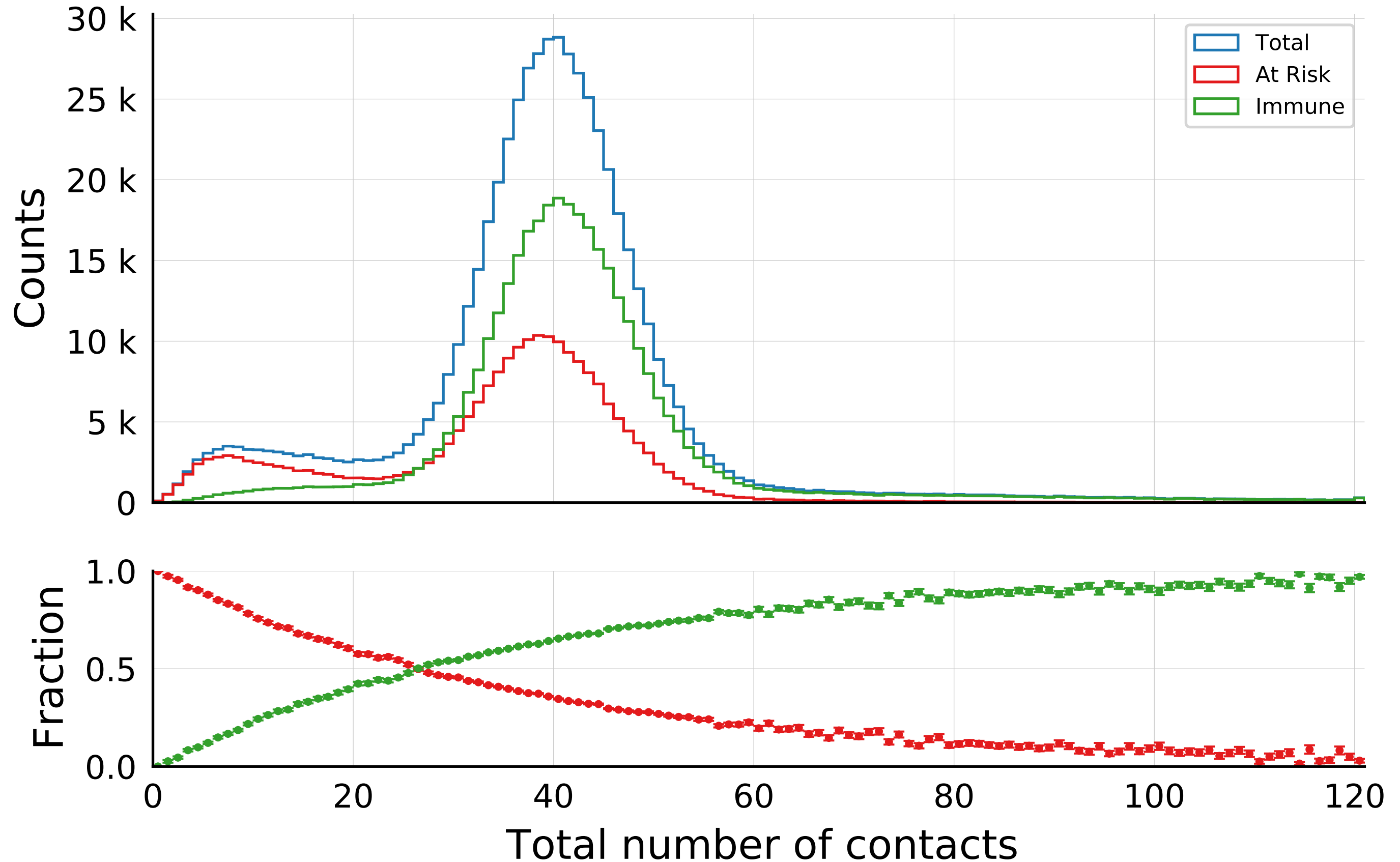$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.1$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 0.0$
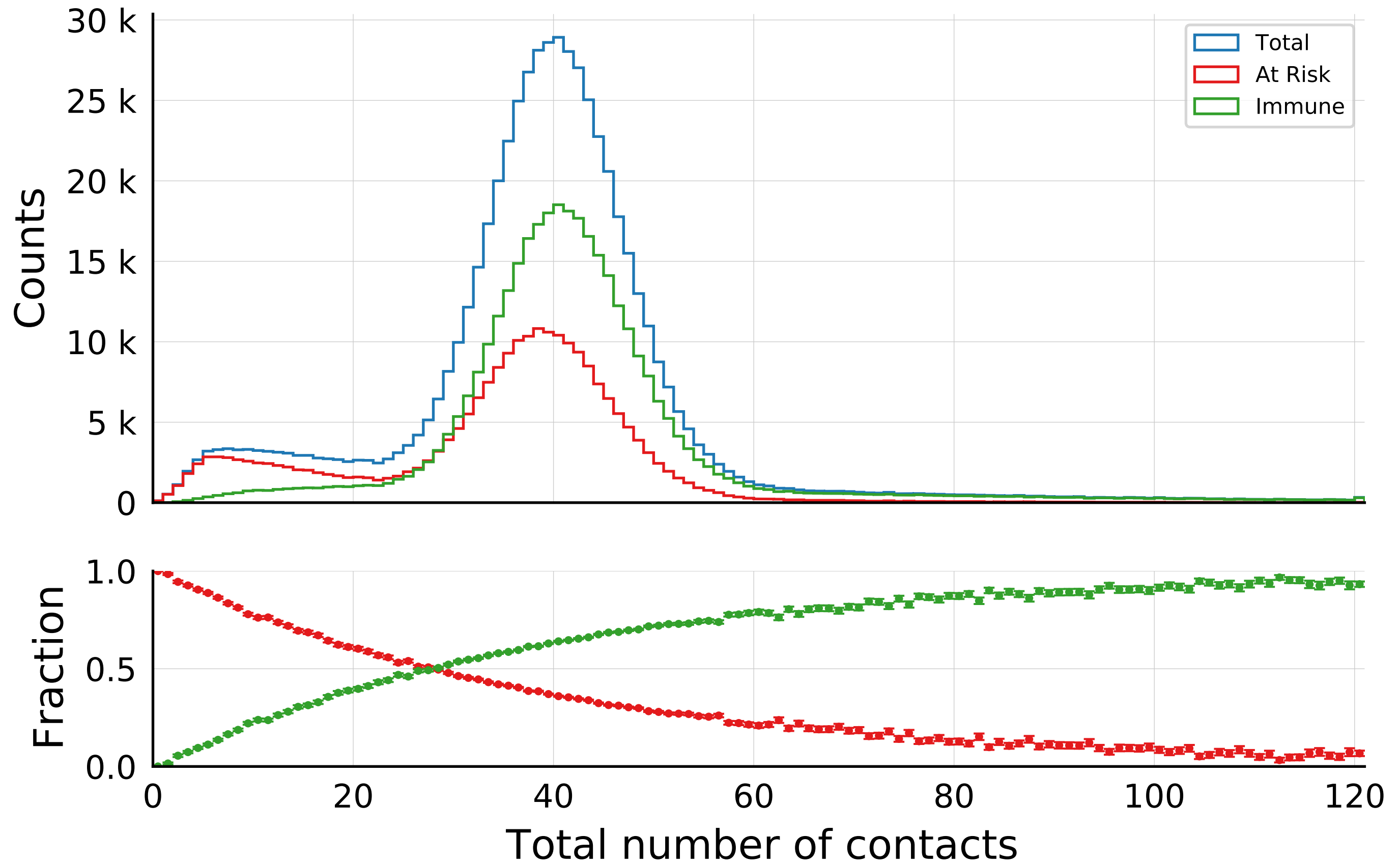$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 0.0$
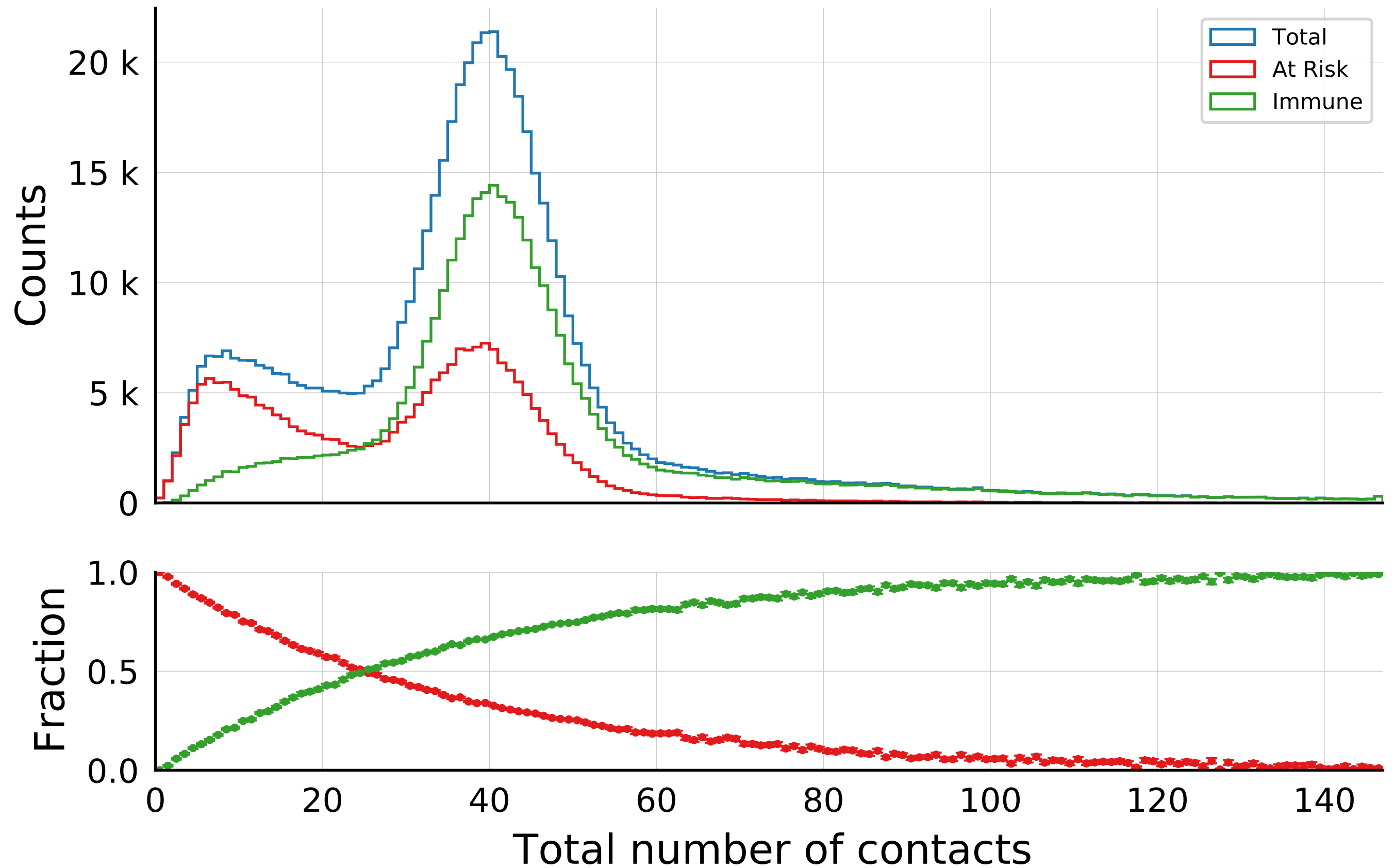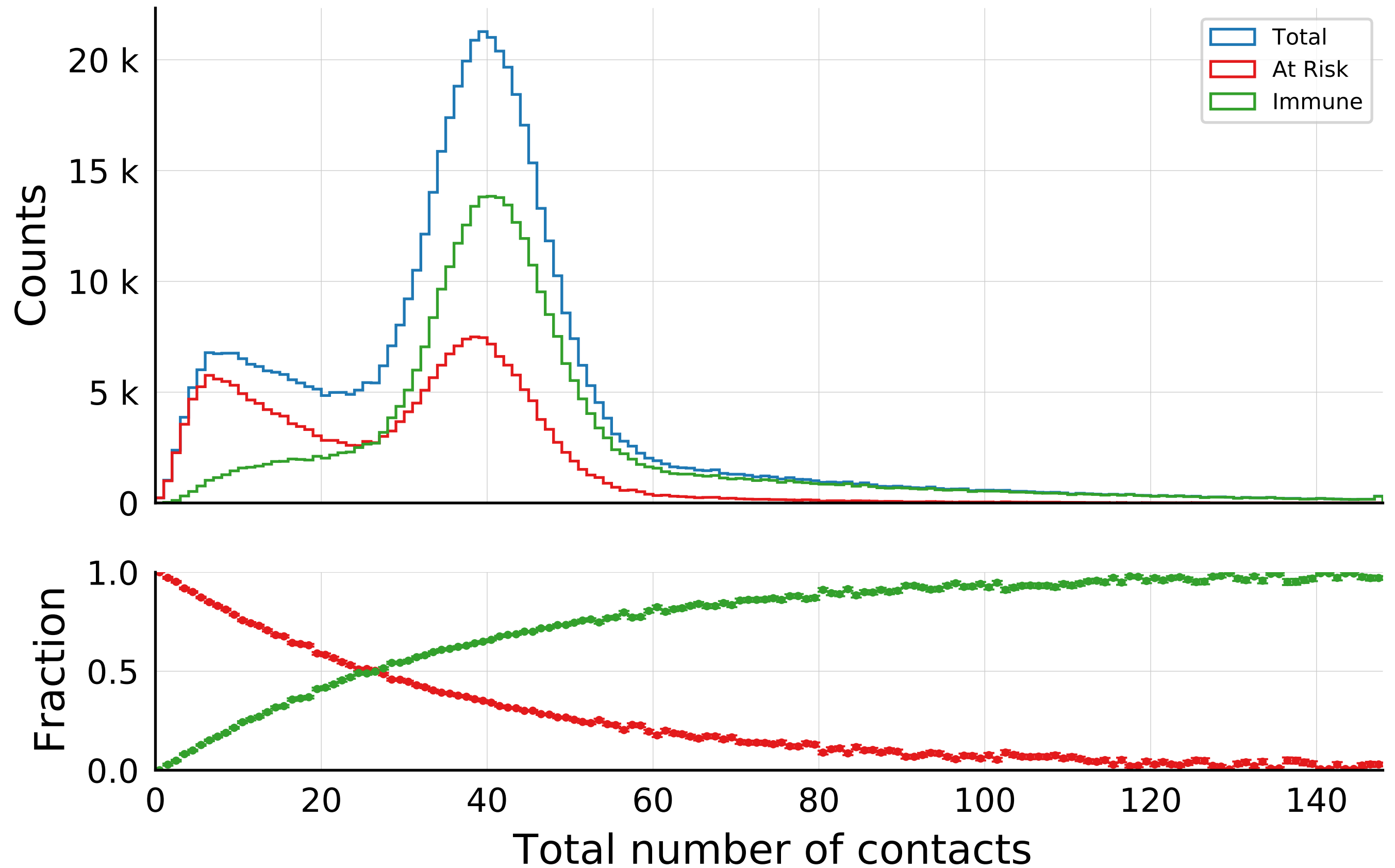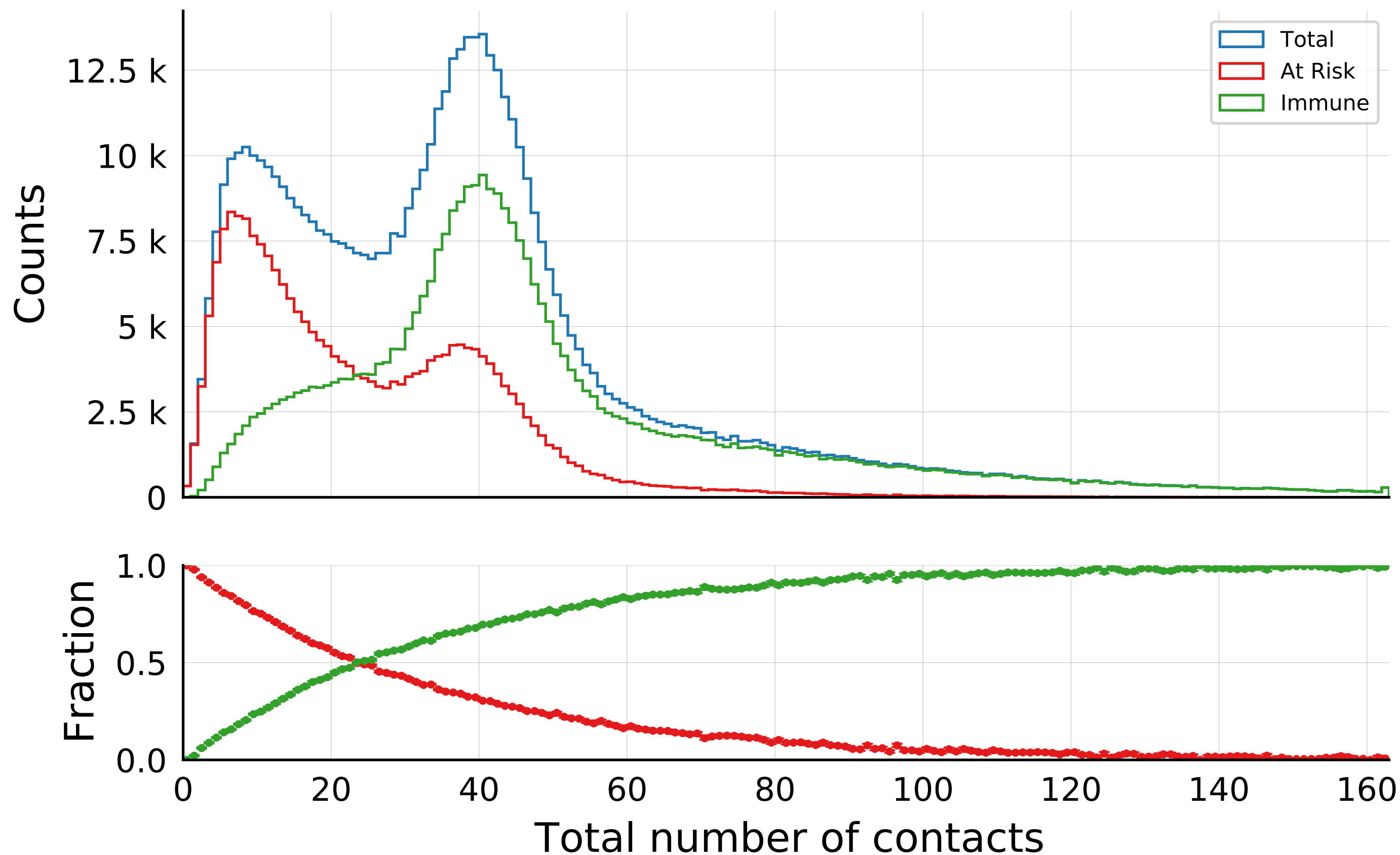$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 0.0$
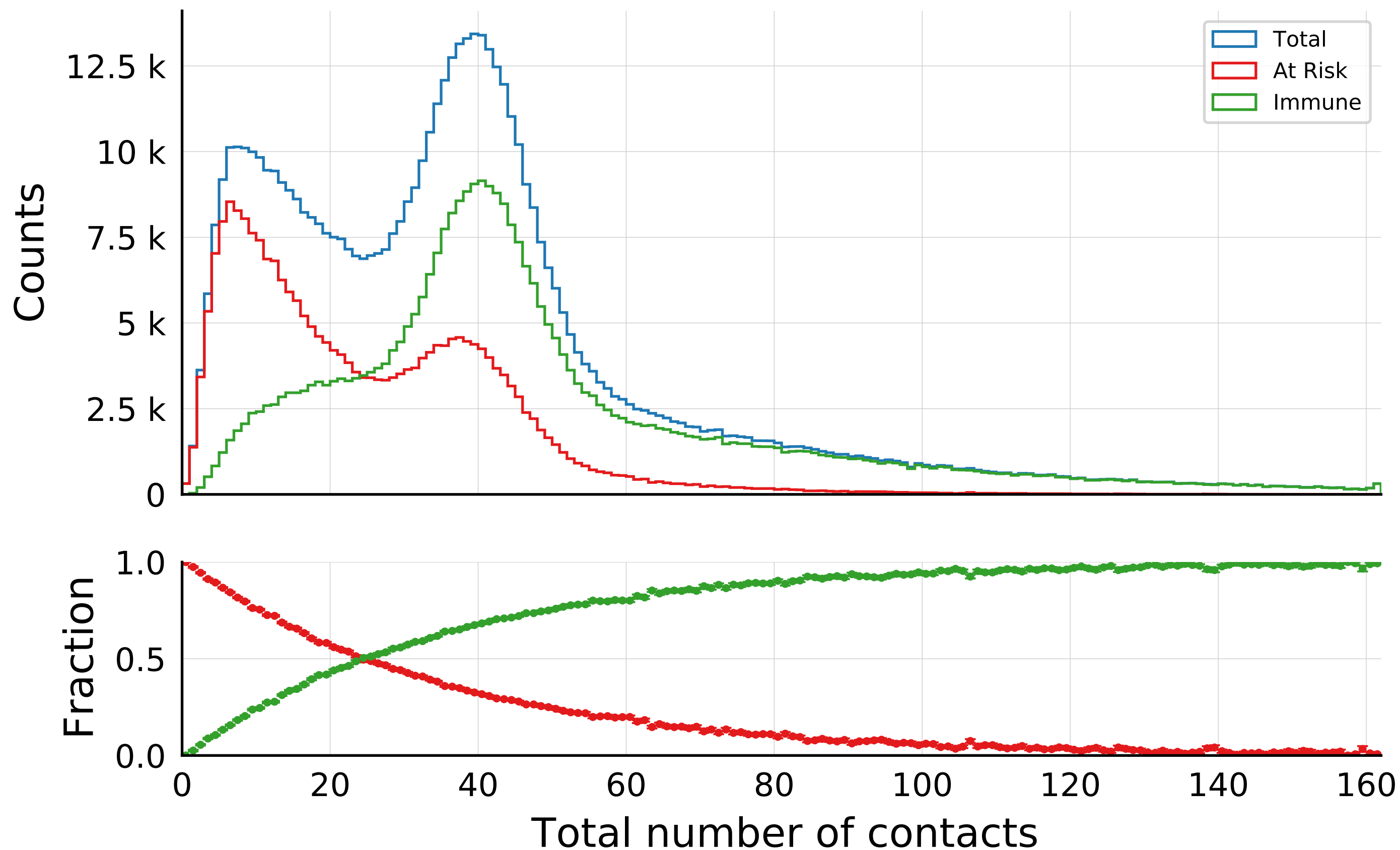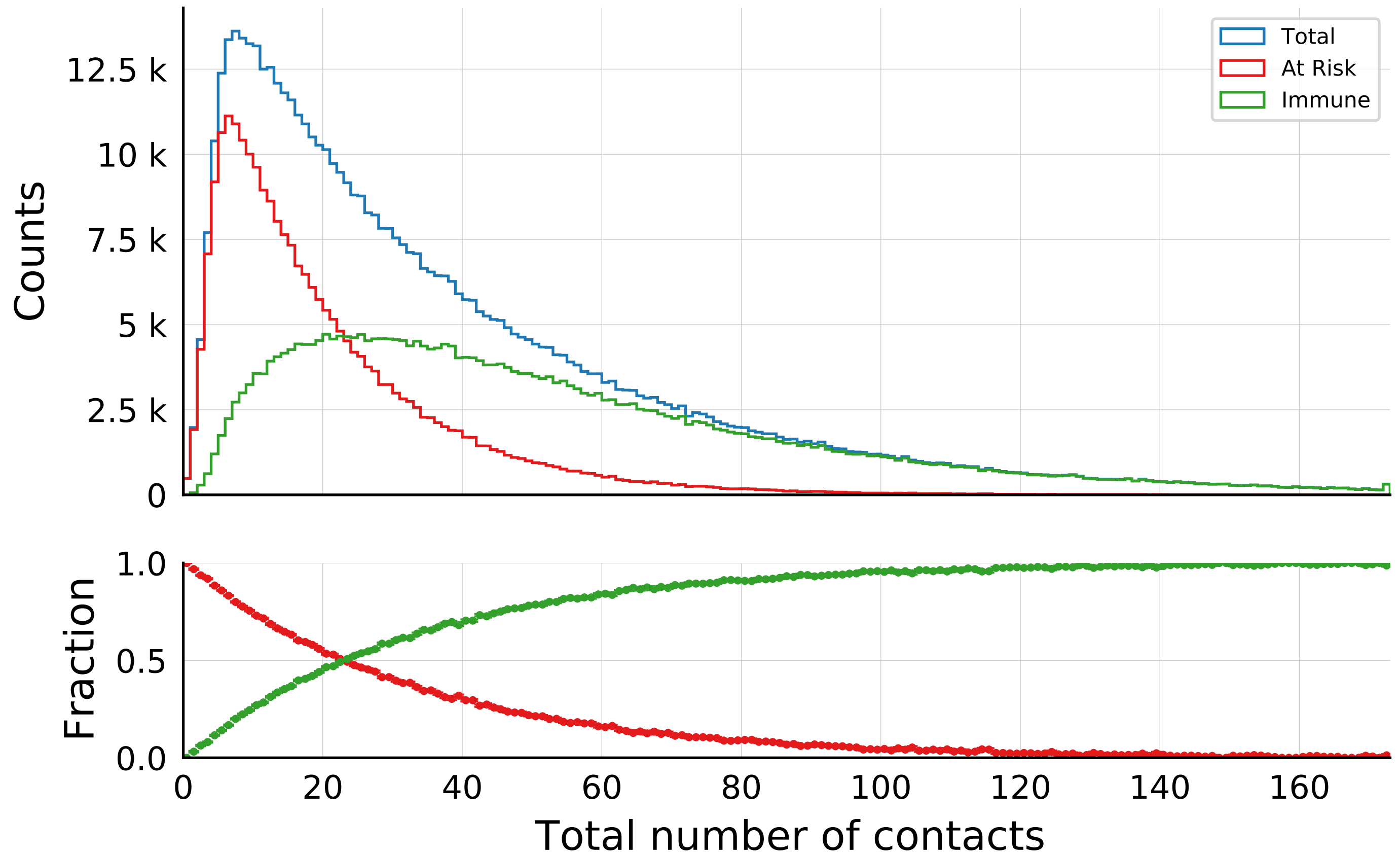$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 1.0$
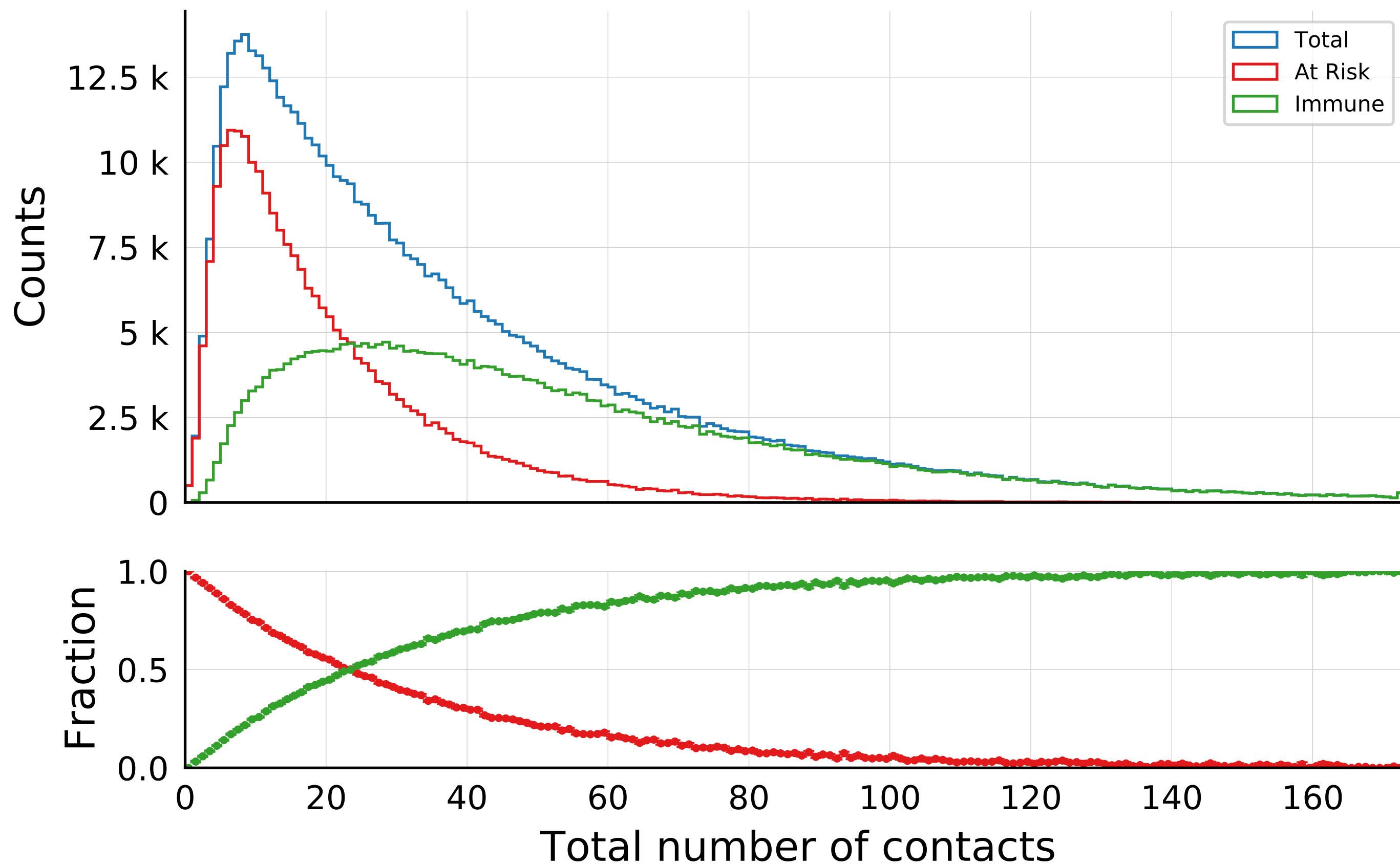$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
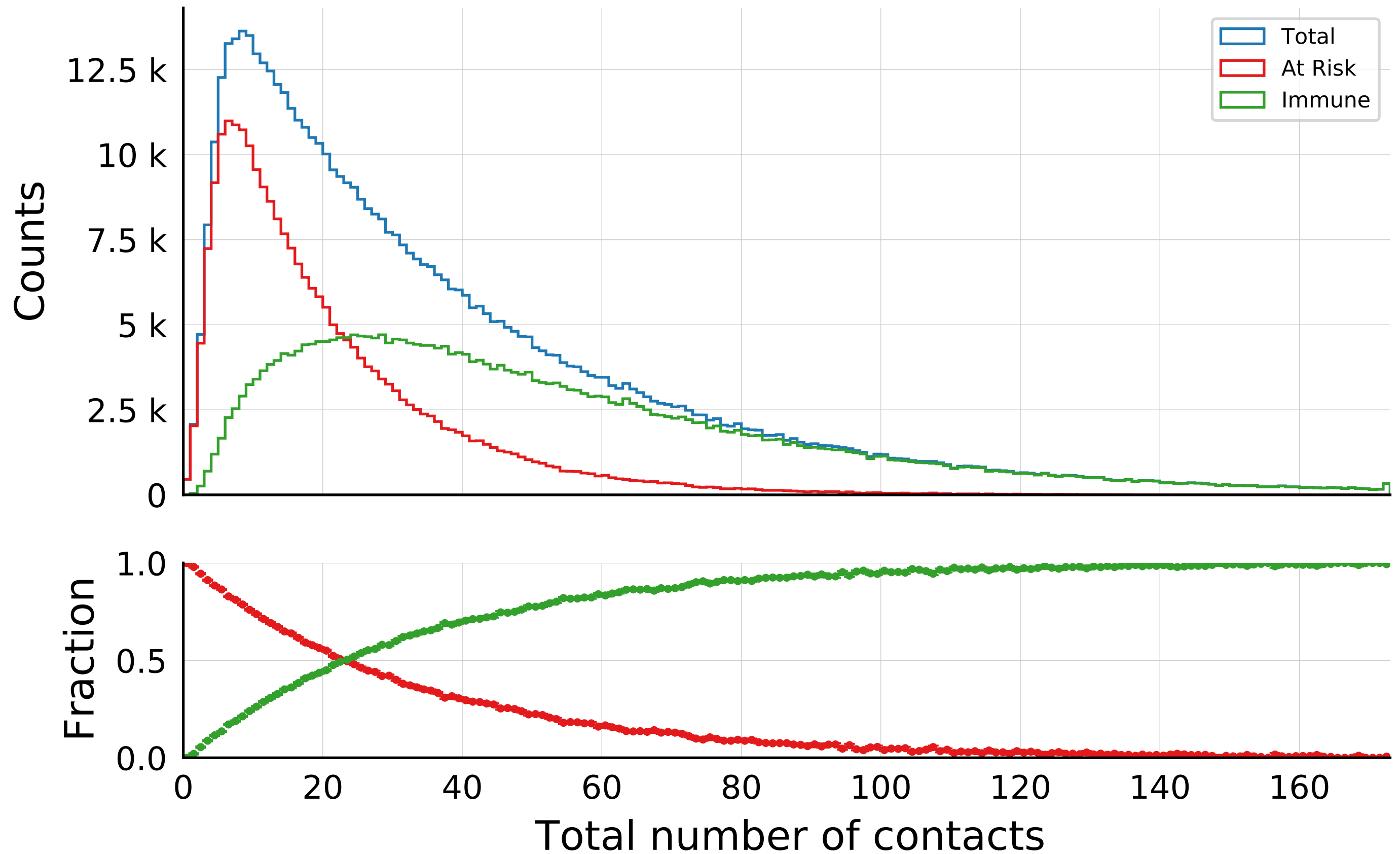$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$
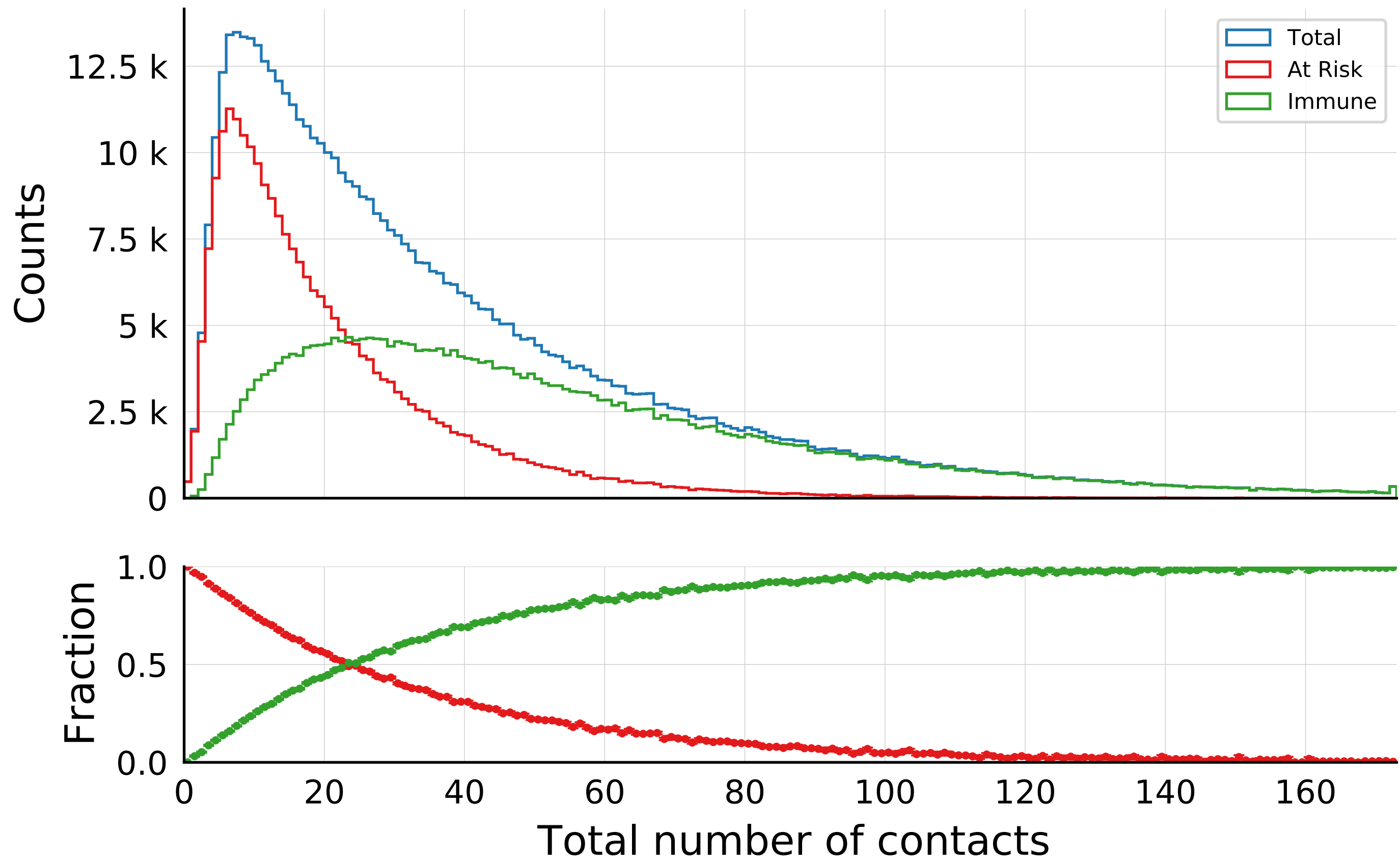
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$
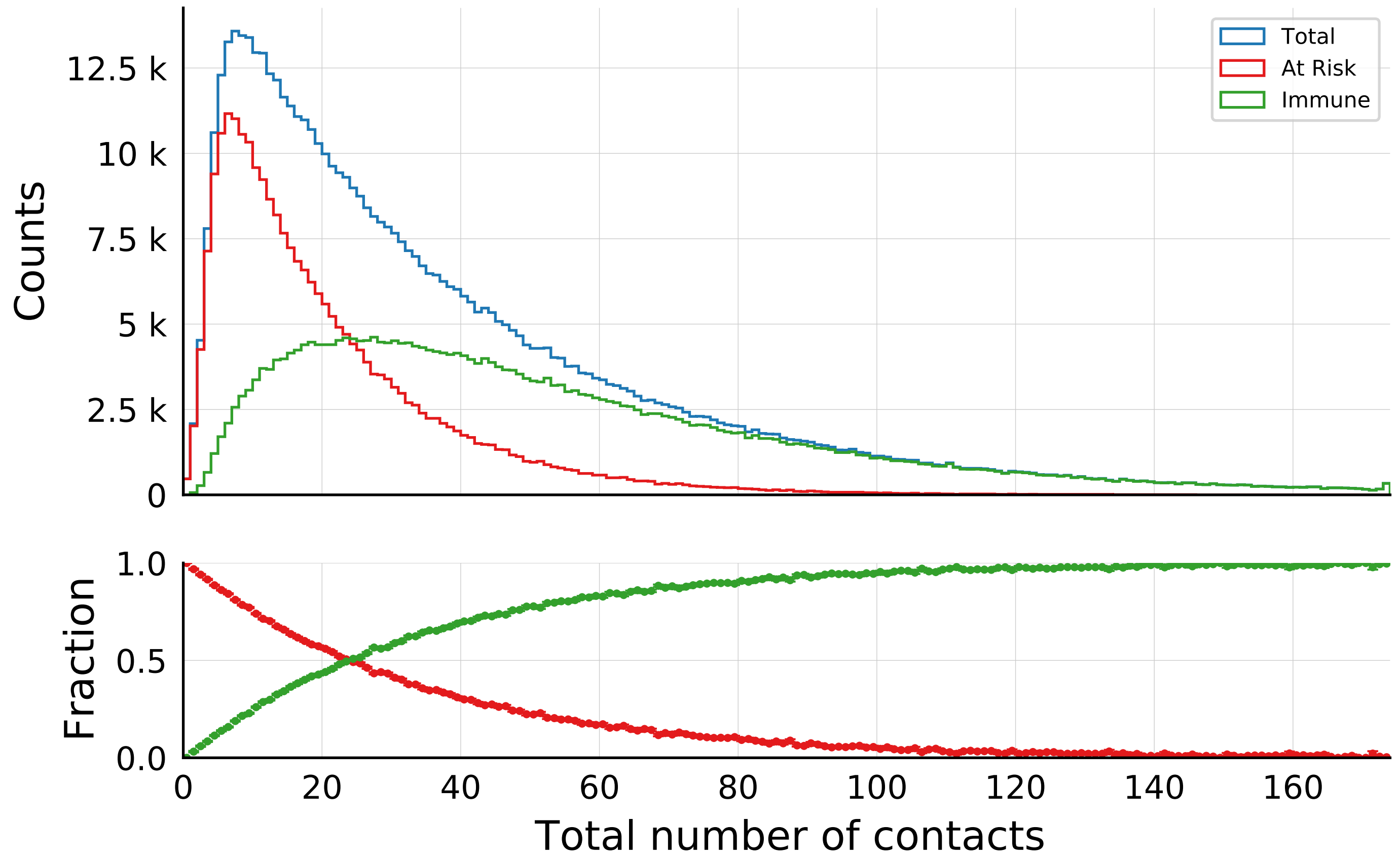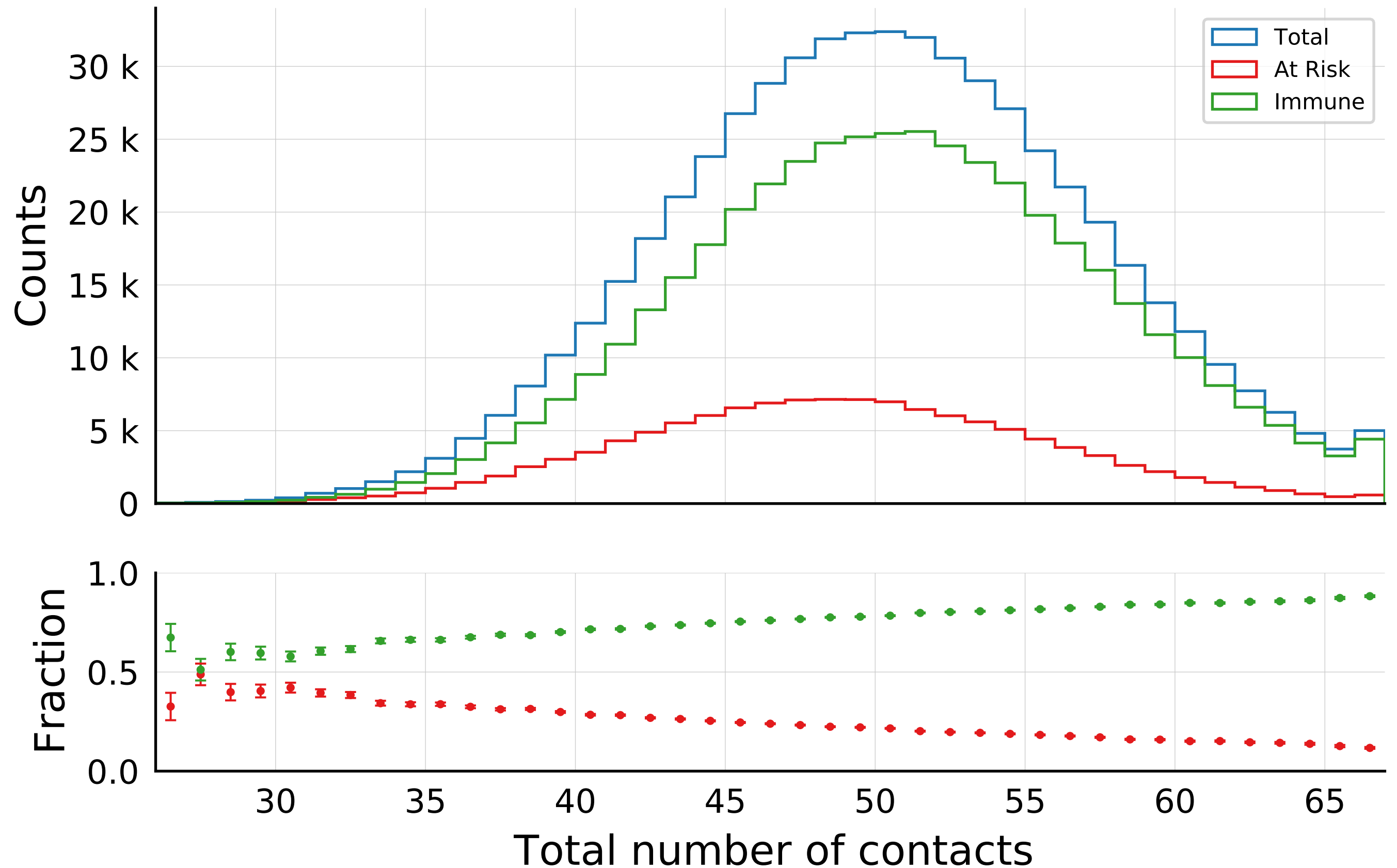$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 50.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
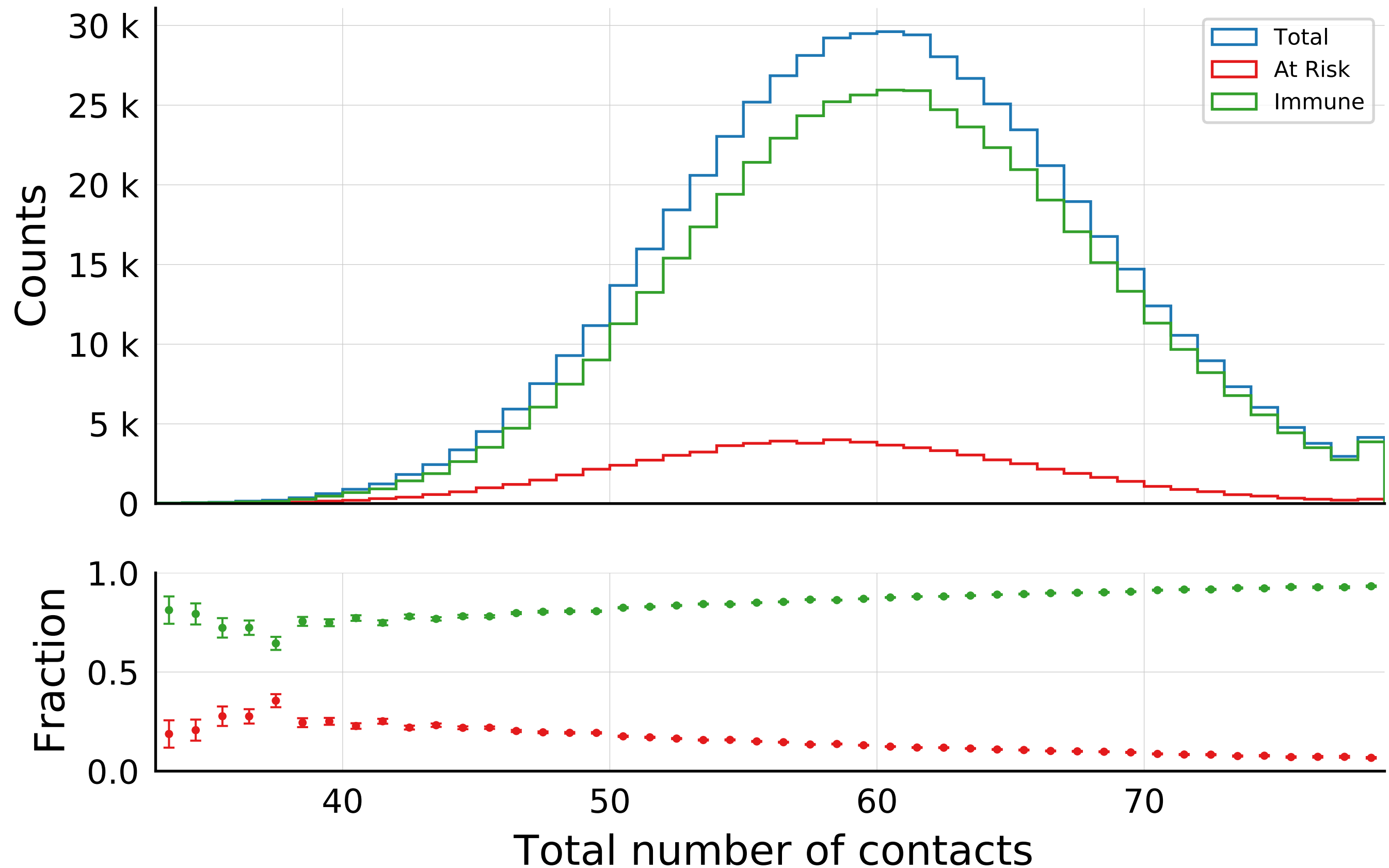$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 60.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
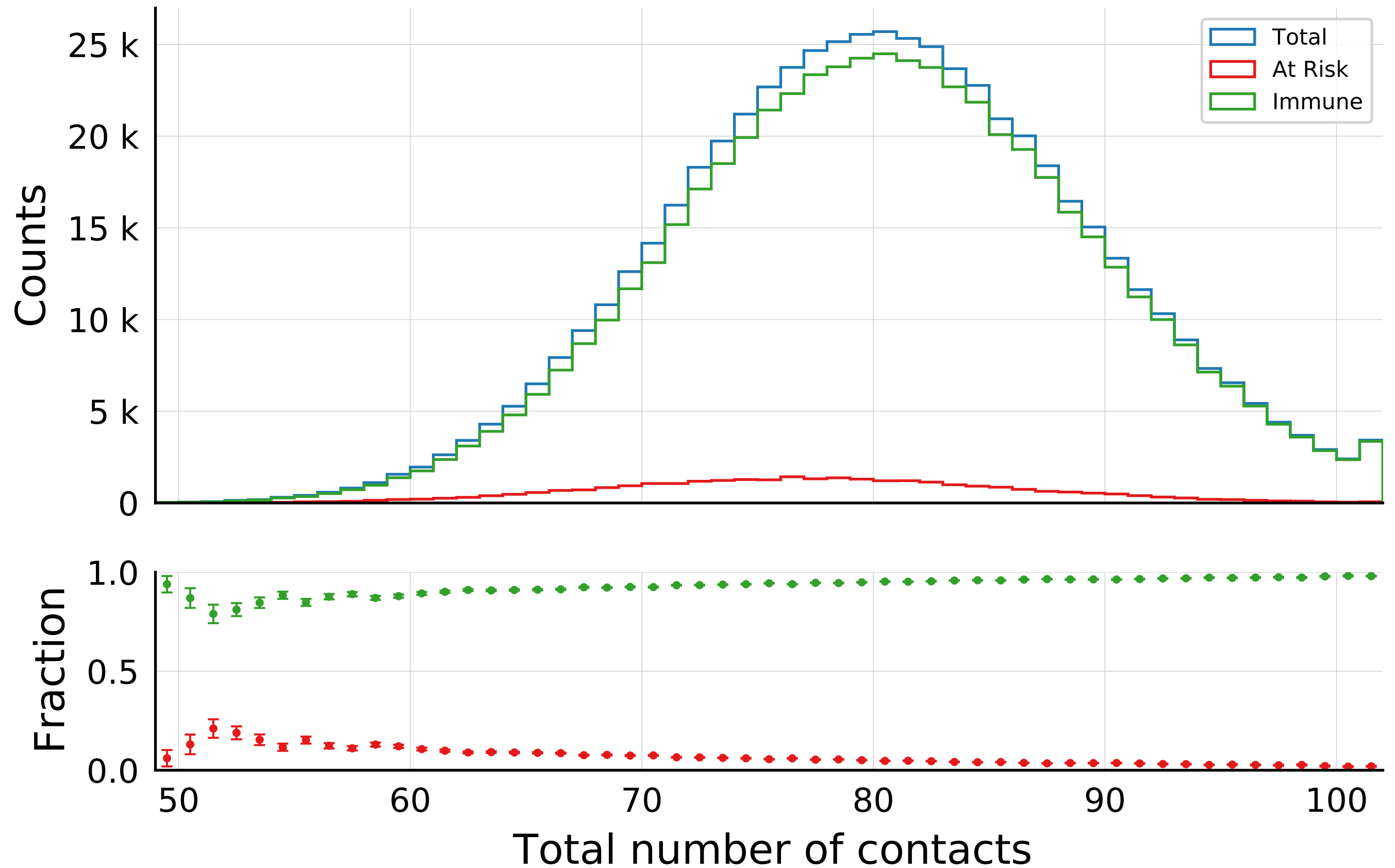$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 80.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
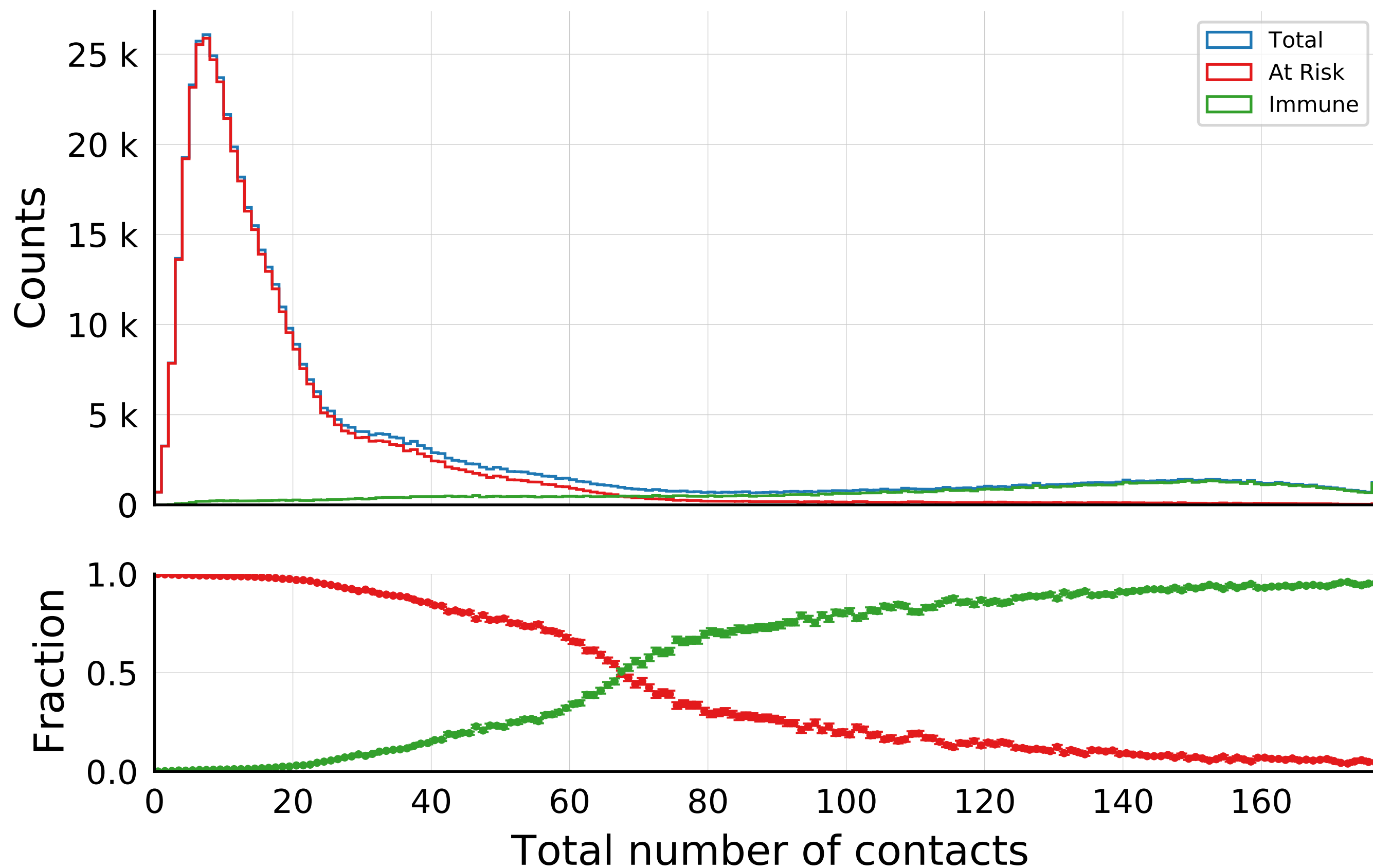$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.15$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
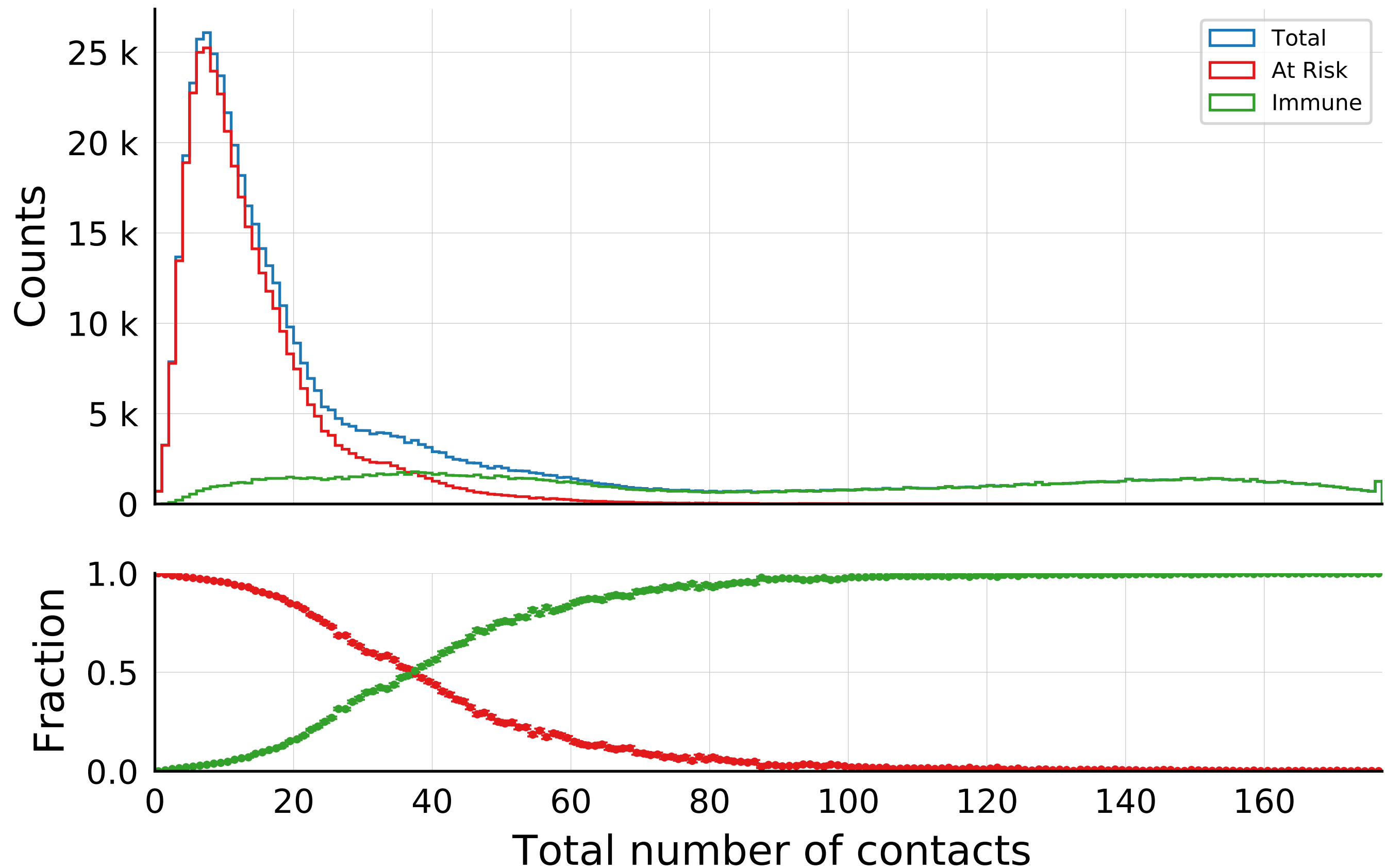$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.15$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
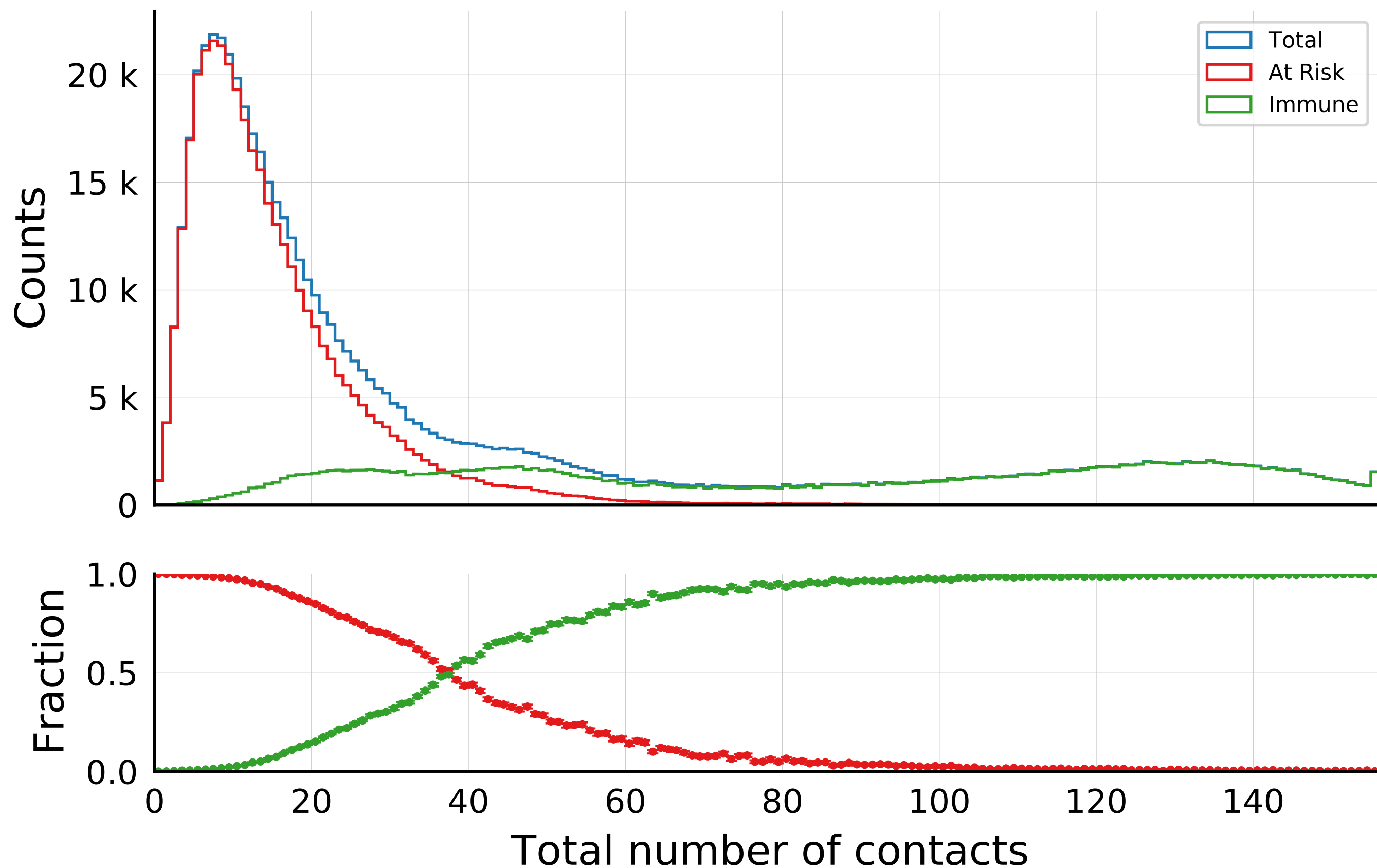$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.005$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
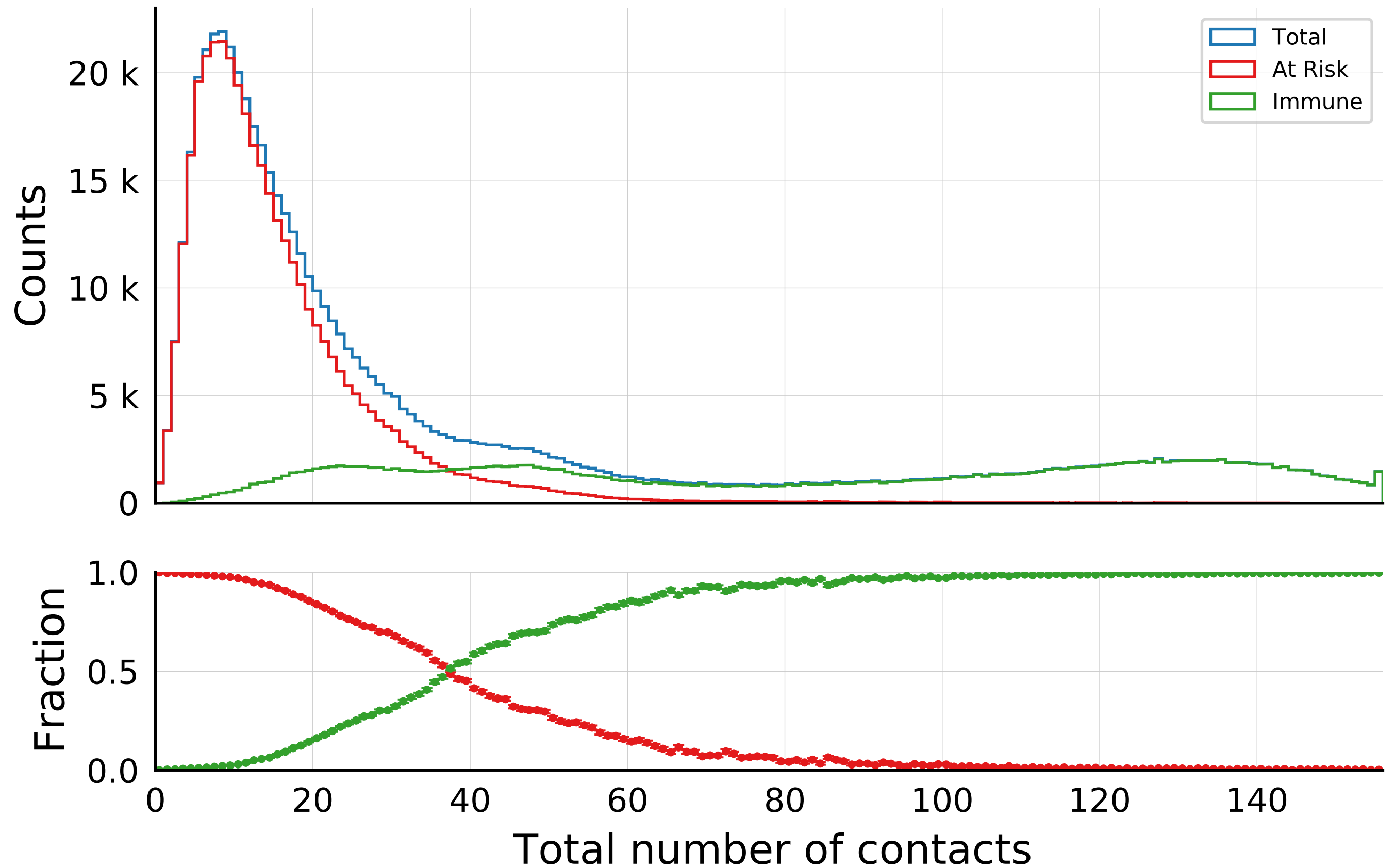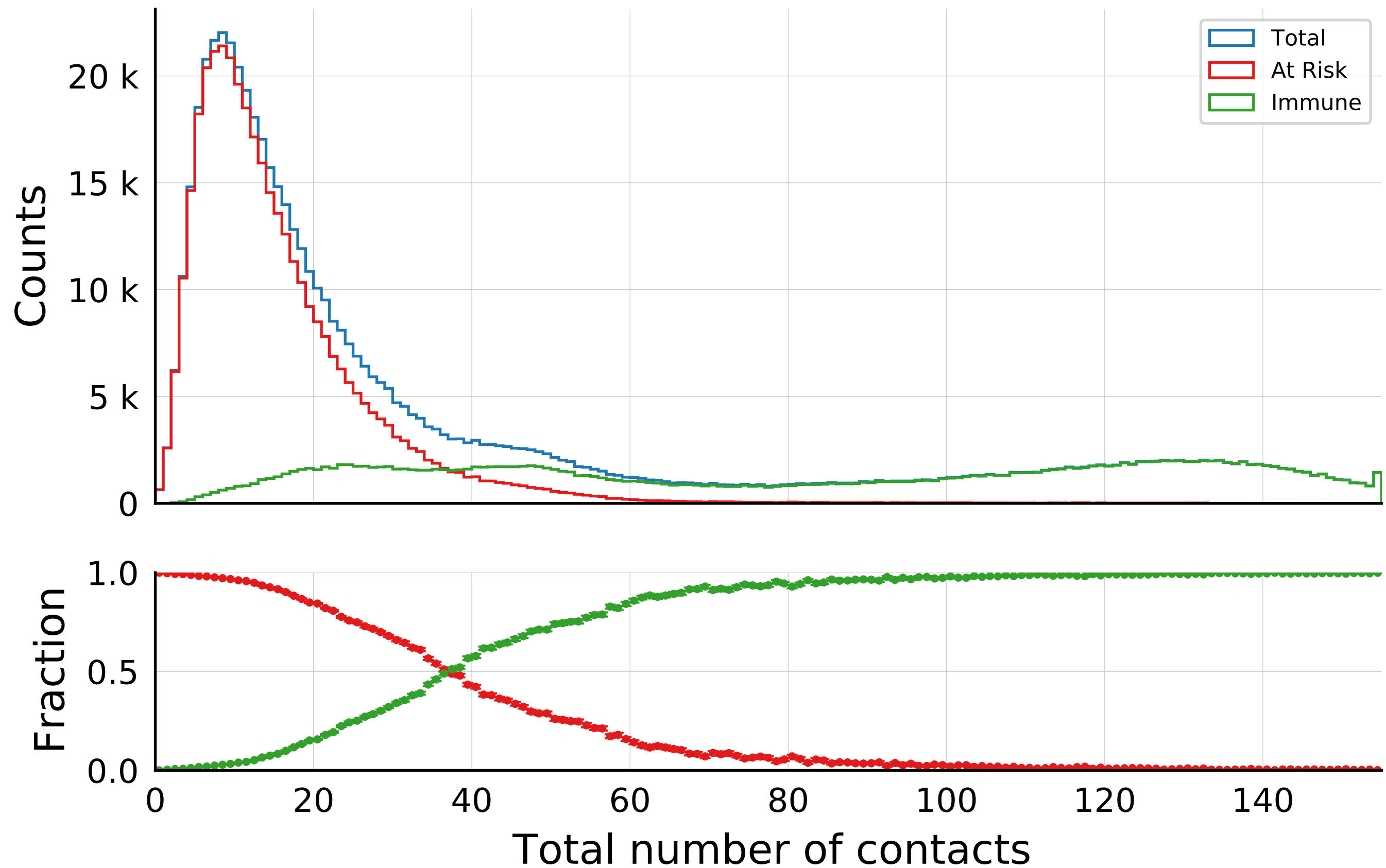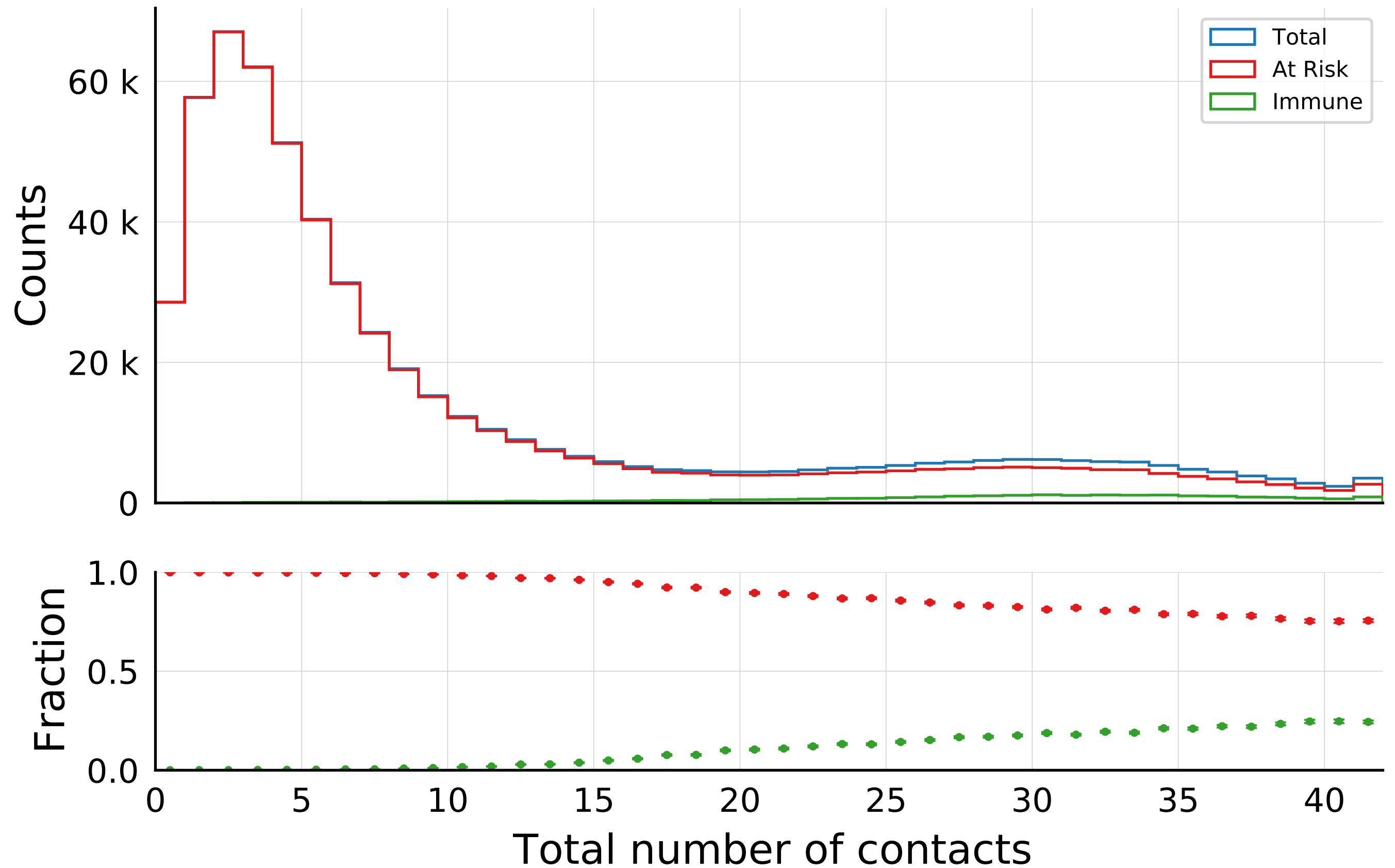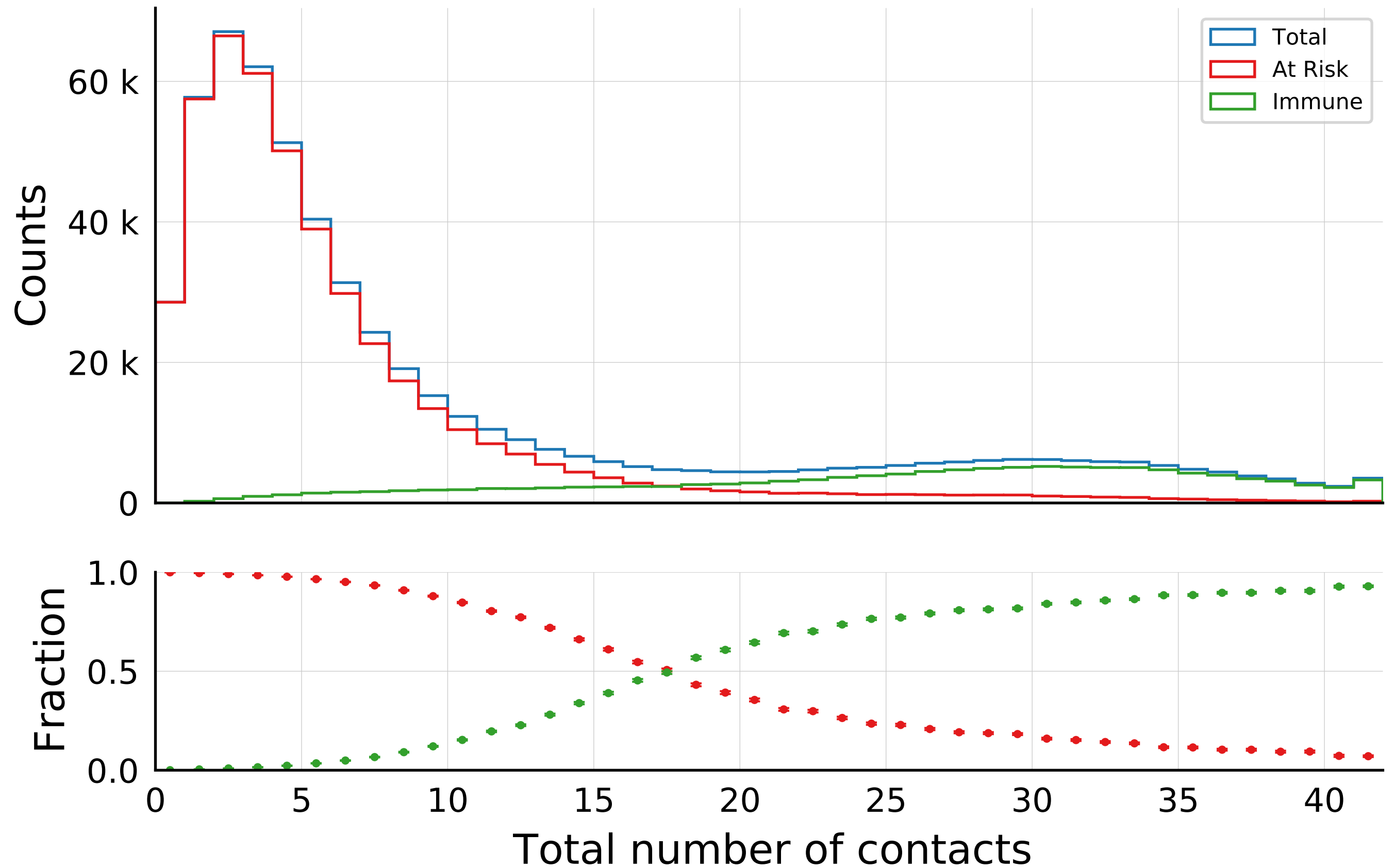$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K, N_{\text{init}} = 100, \rho = 0.1, \epsilon_\rho = 0.01, \mu = 40.0, \sigma_\mu = 0.0, \beta = 0.01, \sigma_\beta = 0.0$
$\lambda_E = 1.0, \lambda_I = 1.0, \text{algo} = 2, ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.02$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
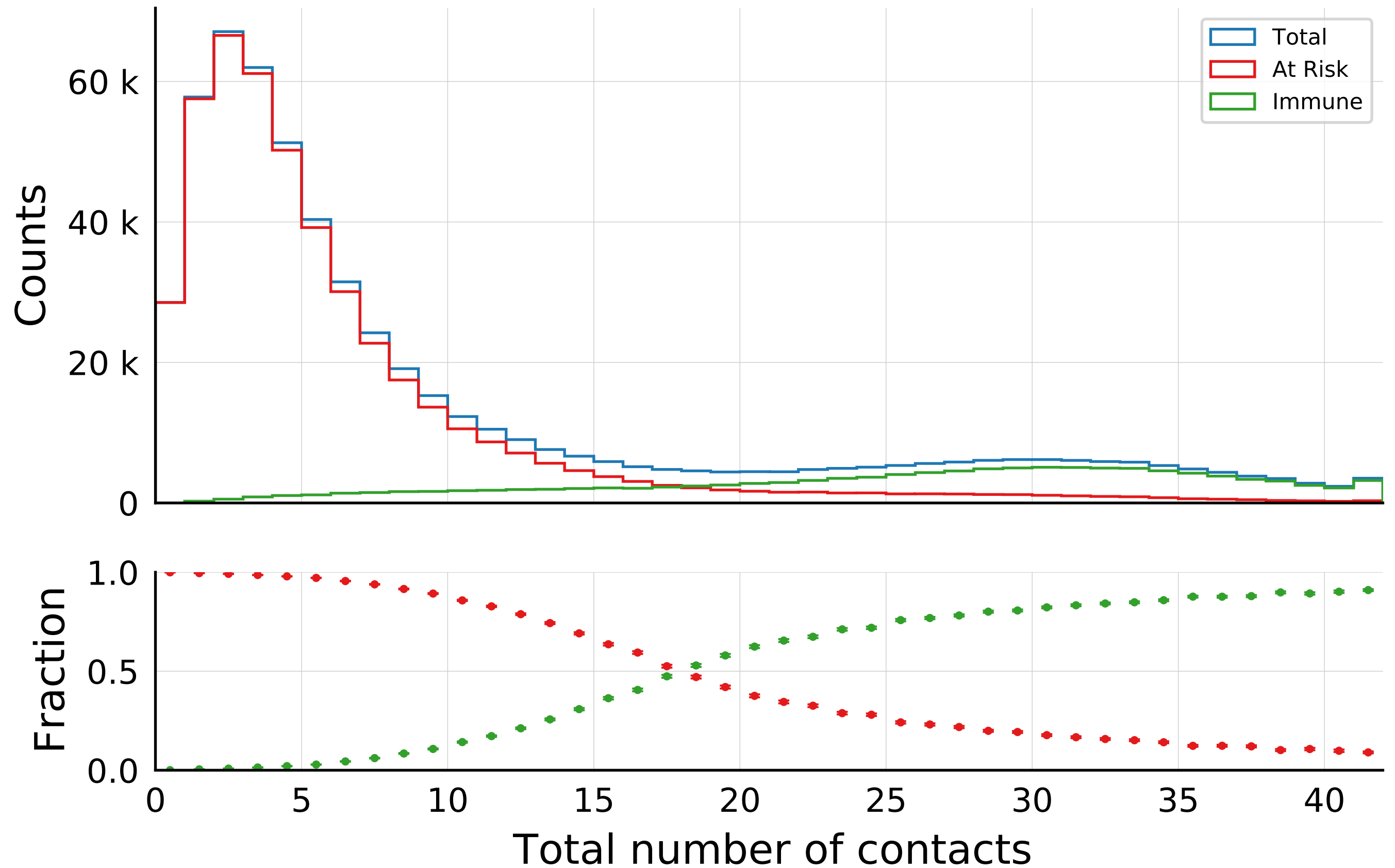$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_{\rho} = 0.04$, $\mu = 10.0$, $\sigma_{\mu} = 0.0$, $\beta = 0.01$, $\sigma_{\beta} = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\mathrm{tot}} = 580K$, $N_{\mathrm{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\mathrm{algo} = 2$, $ID = 0$
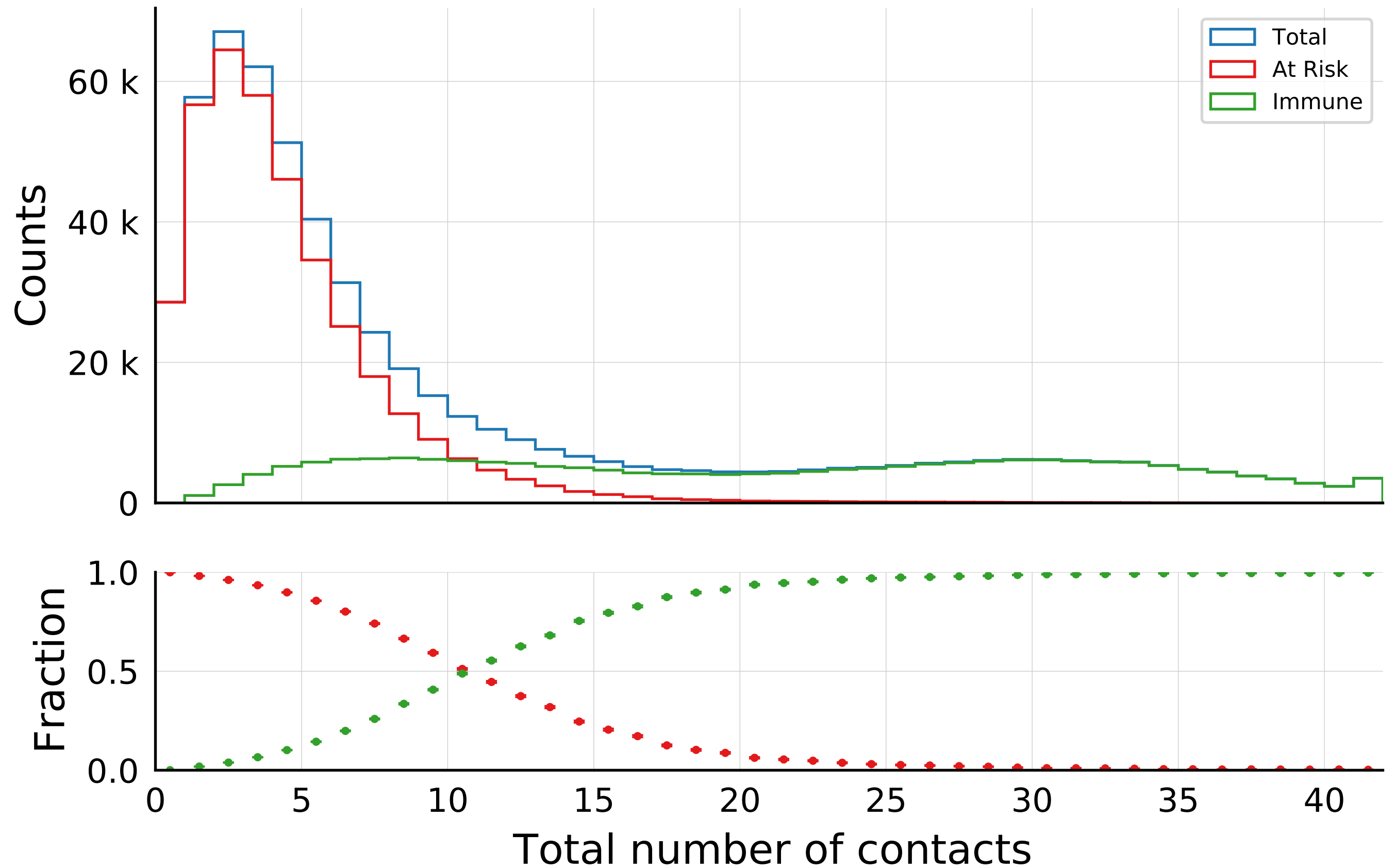
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_{\rho} = 0.04$, $\mu = 10.0$, $\sigma_{\mu} = 0.0$, $\beta = 0.02$, $\sigma_{\beta} = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
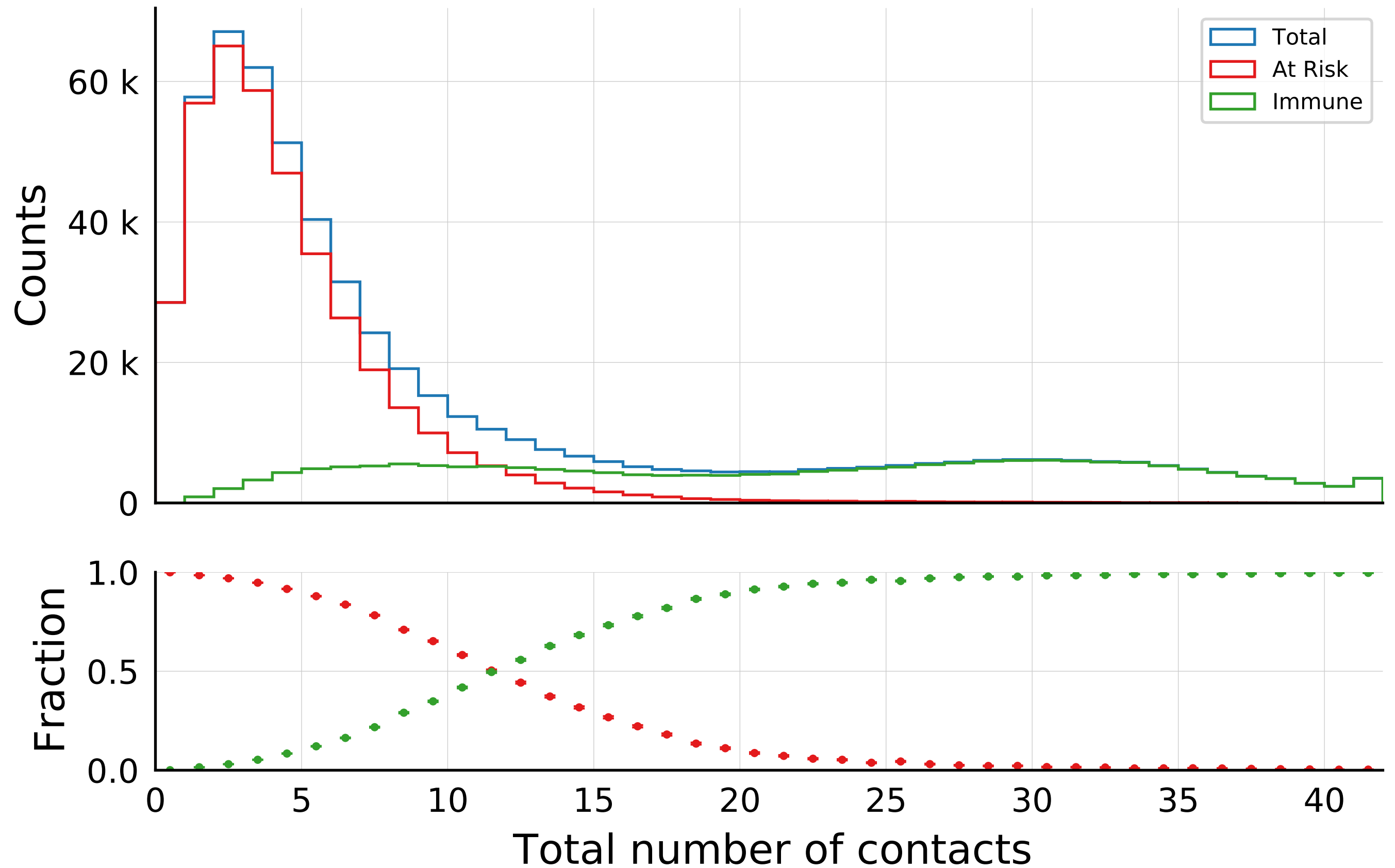$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$

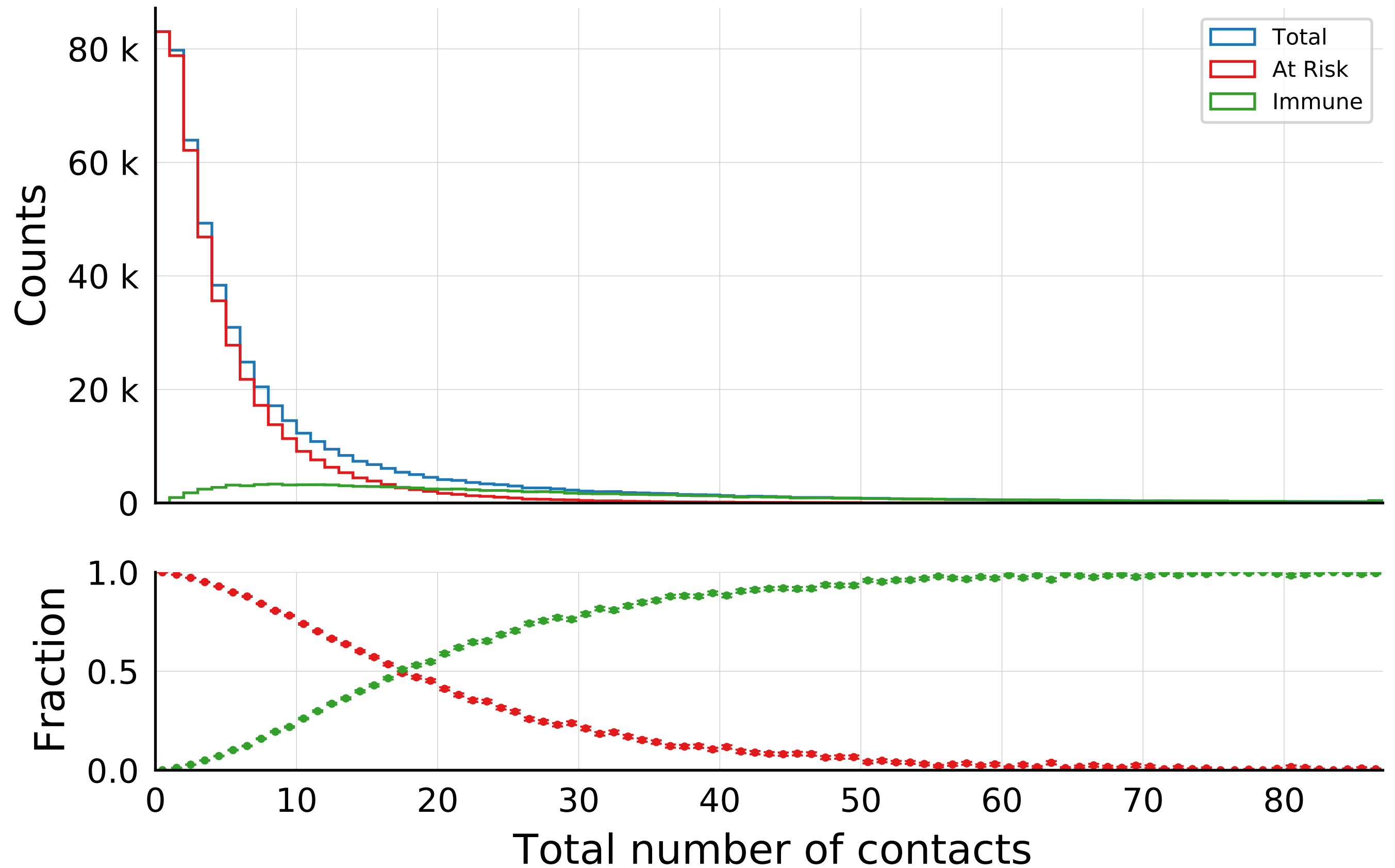$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
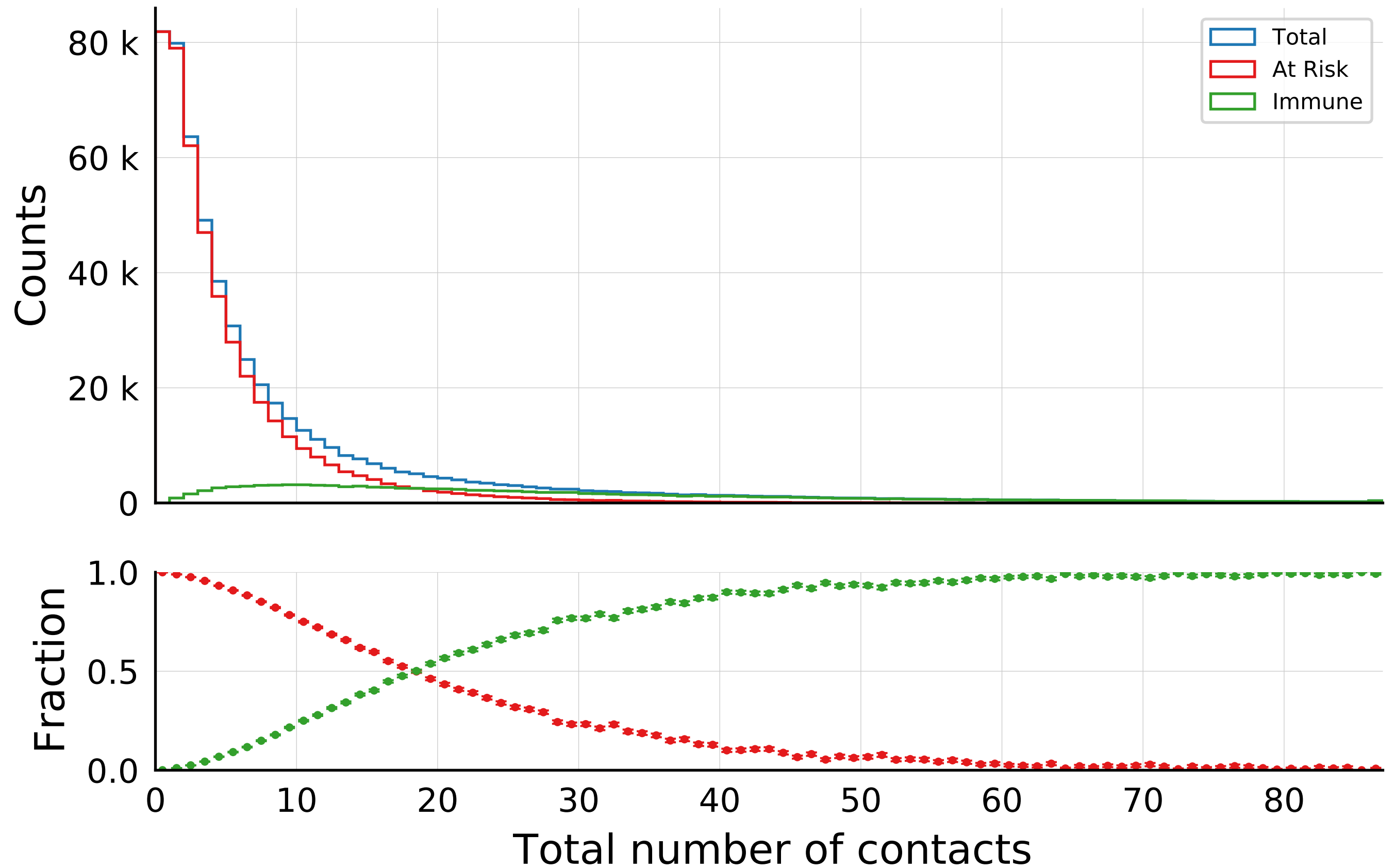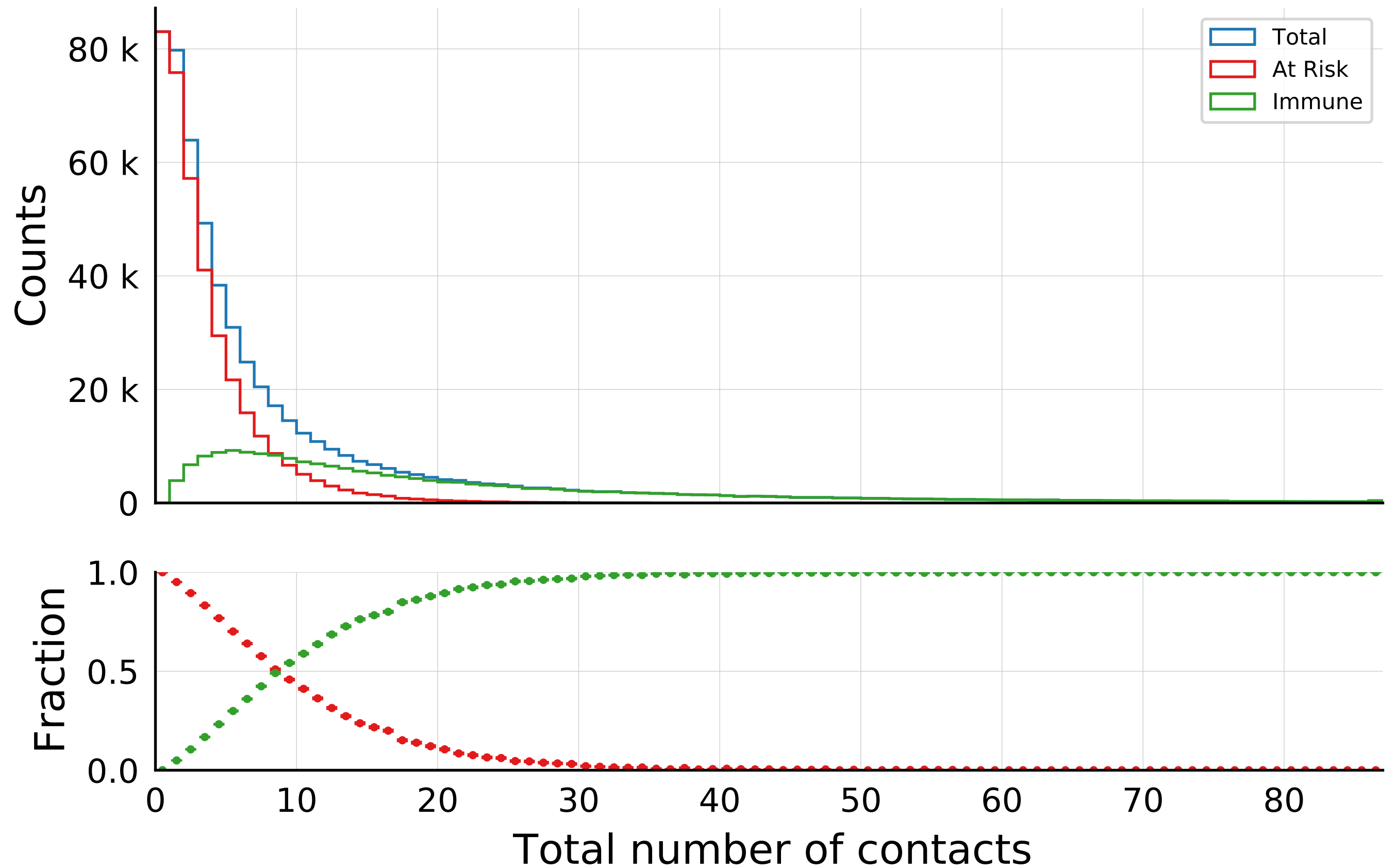$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K, \ N_{\text{init}} = 100, \ \rho = 0.1, \ \epsilon_\rho = 0.04, \ \mu = 10.0, \ \sigma_\mu = 1.0, \ \beta = 0.02, \ \sigma_\beta = 1.0$
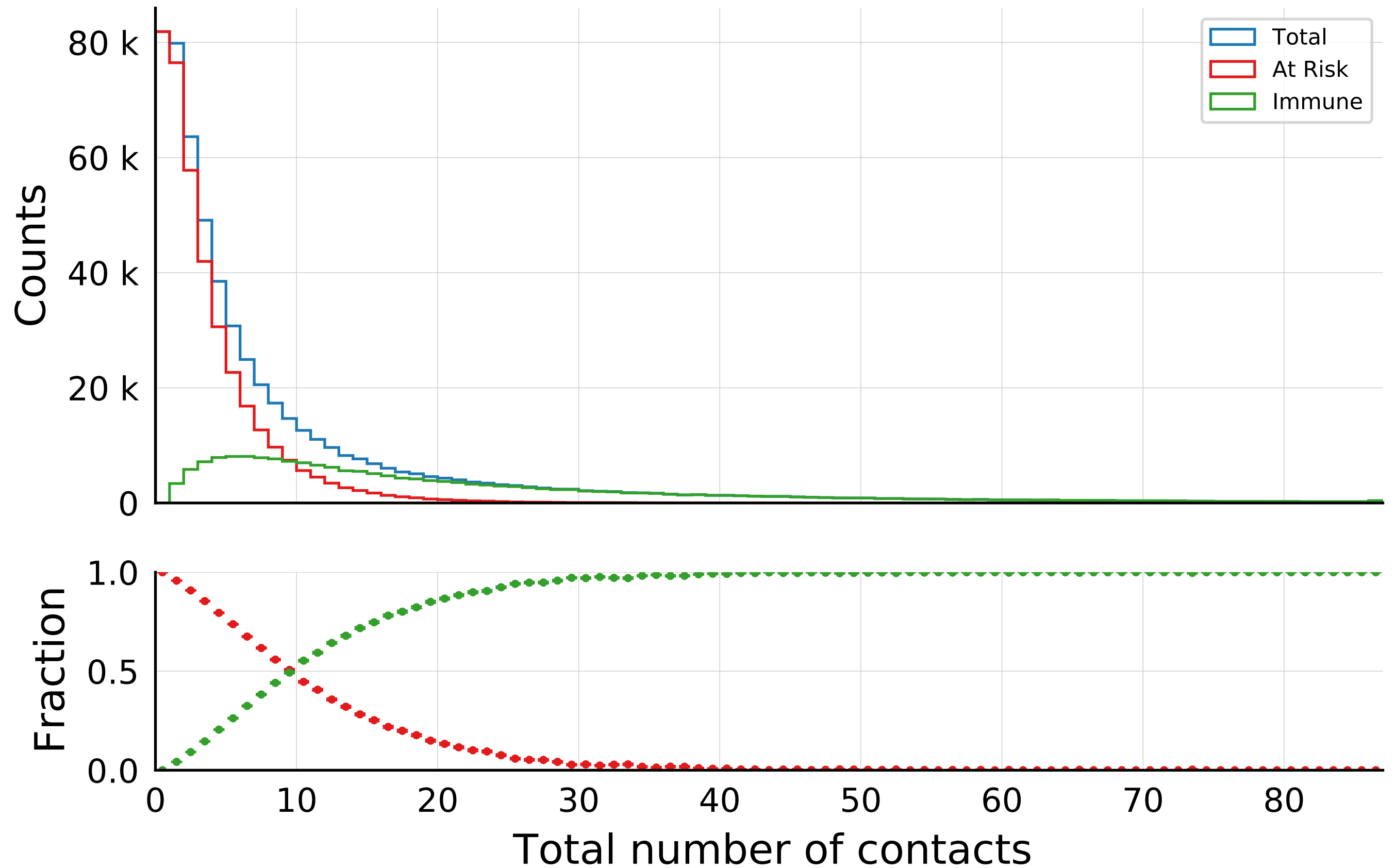$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\mathrm{tot}} = 580K$, $N_{\mathrm{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
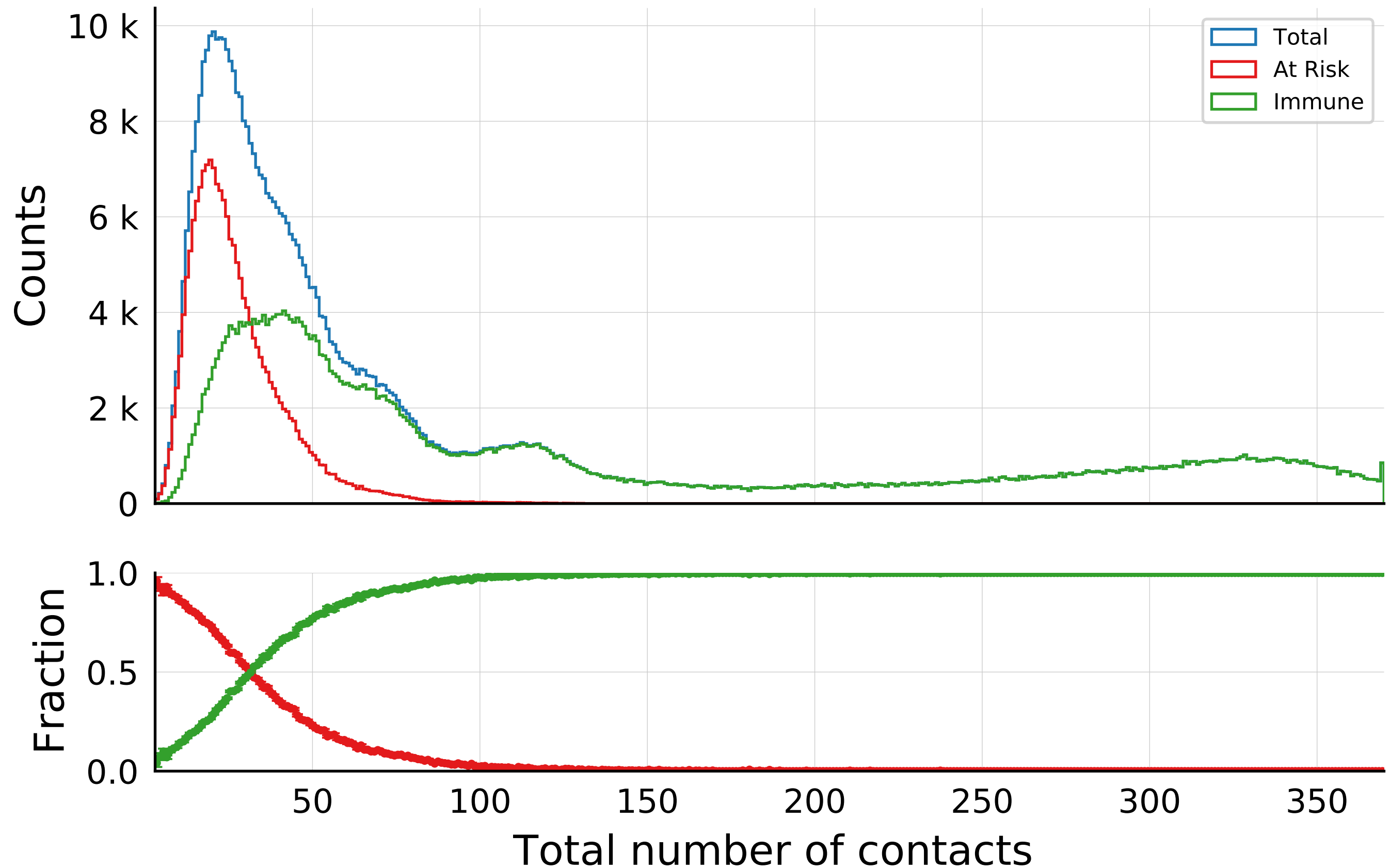$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\mathrm{algo} = 2$, $ID = 0$
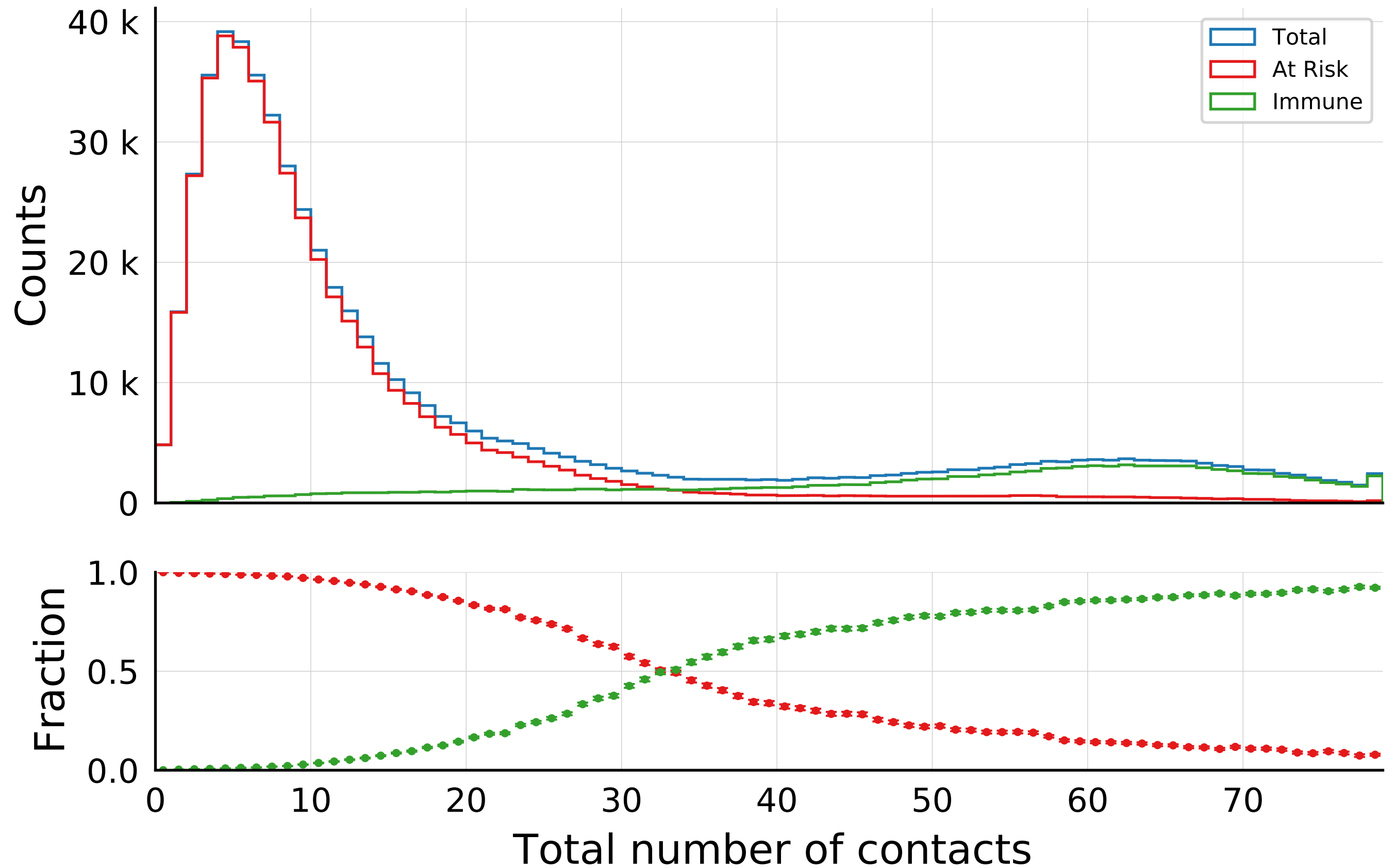
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 100.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
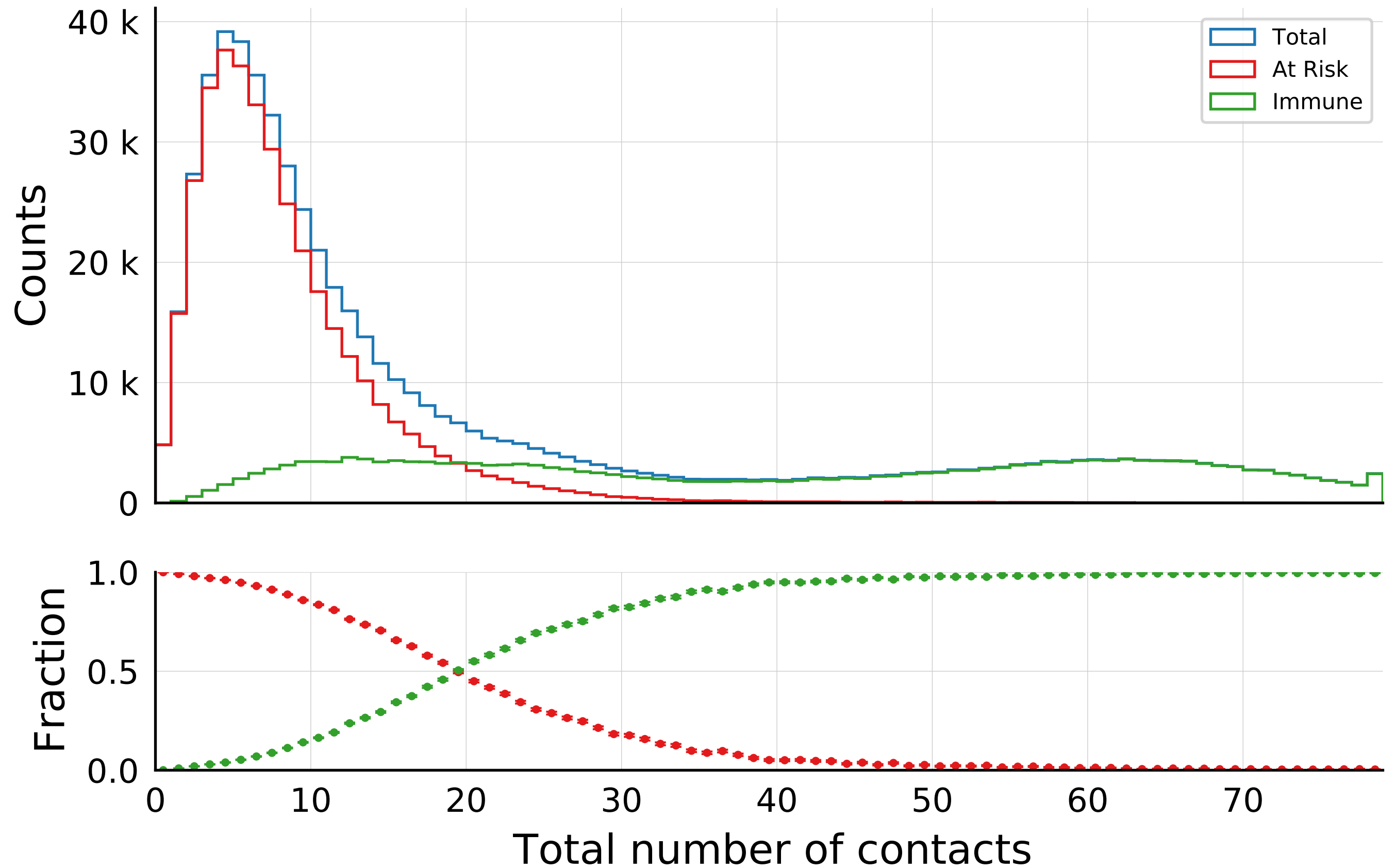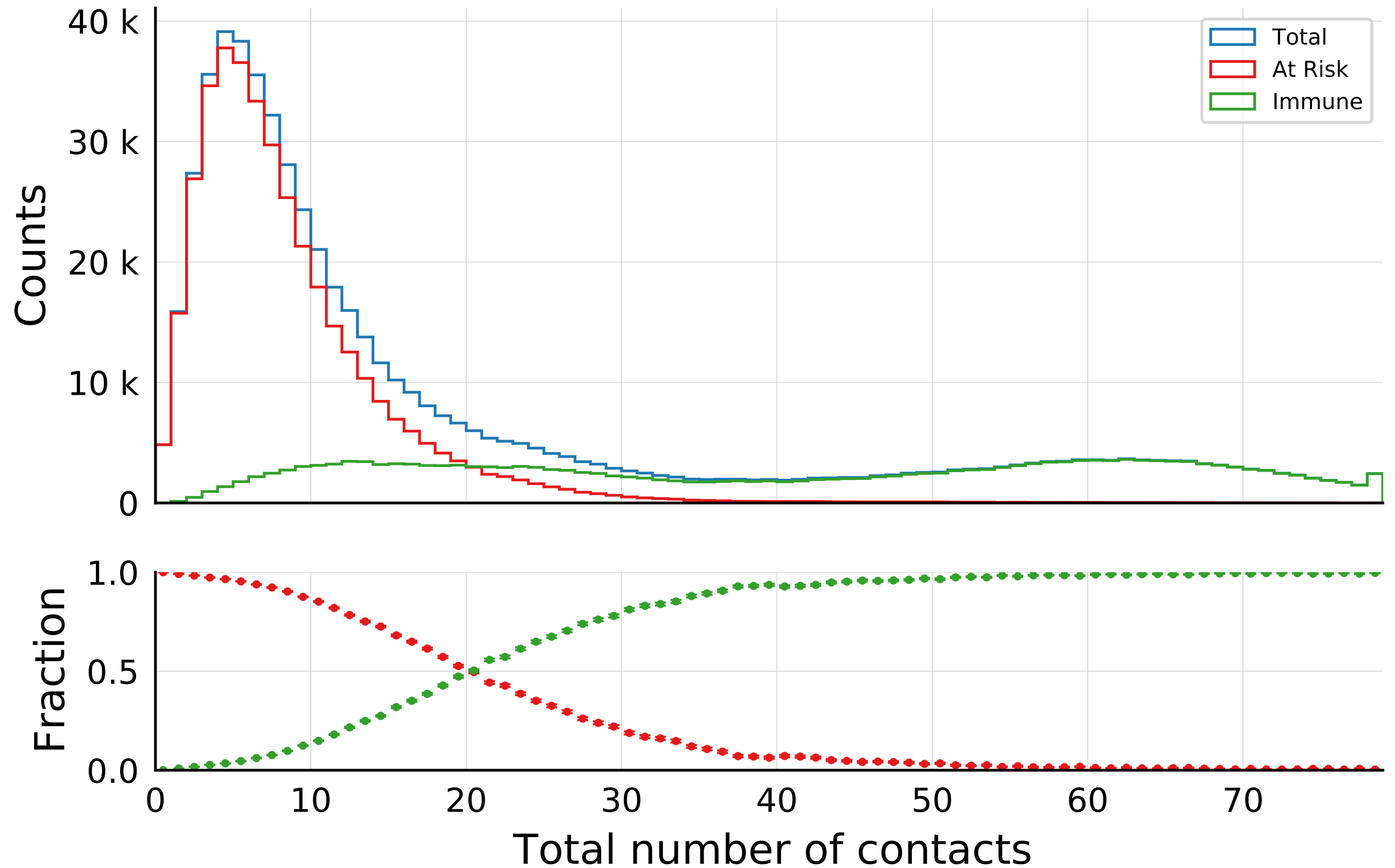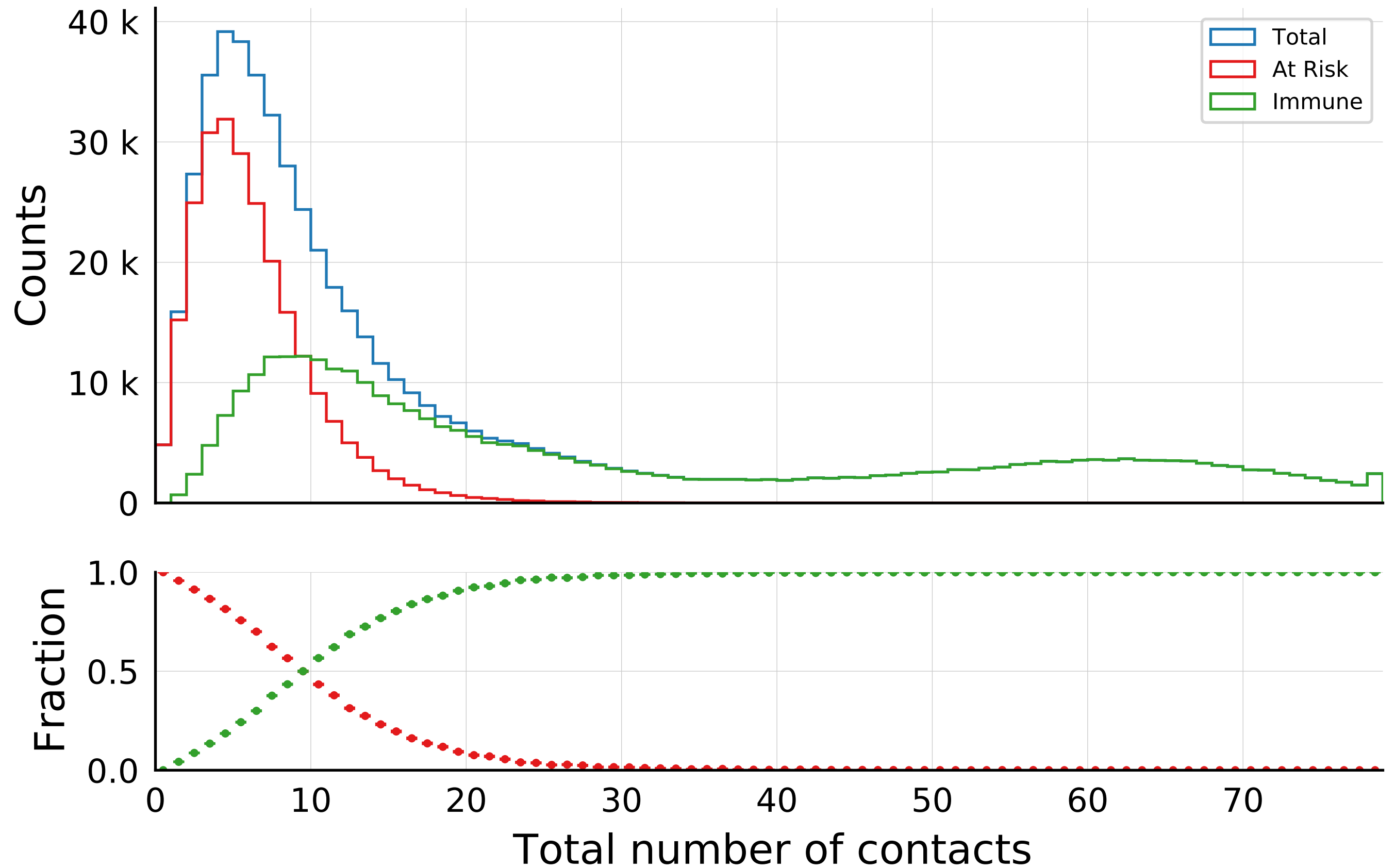$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 20.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
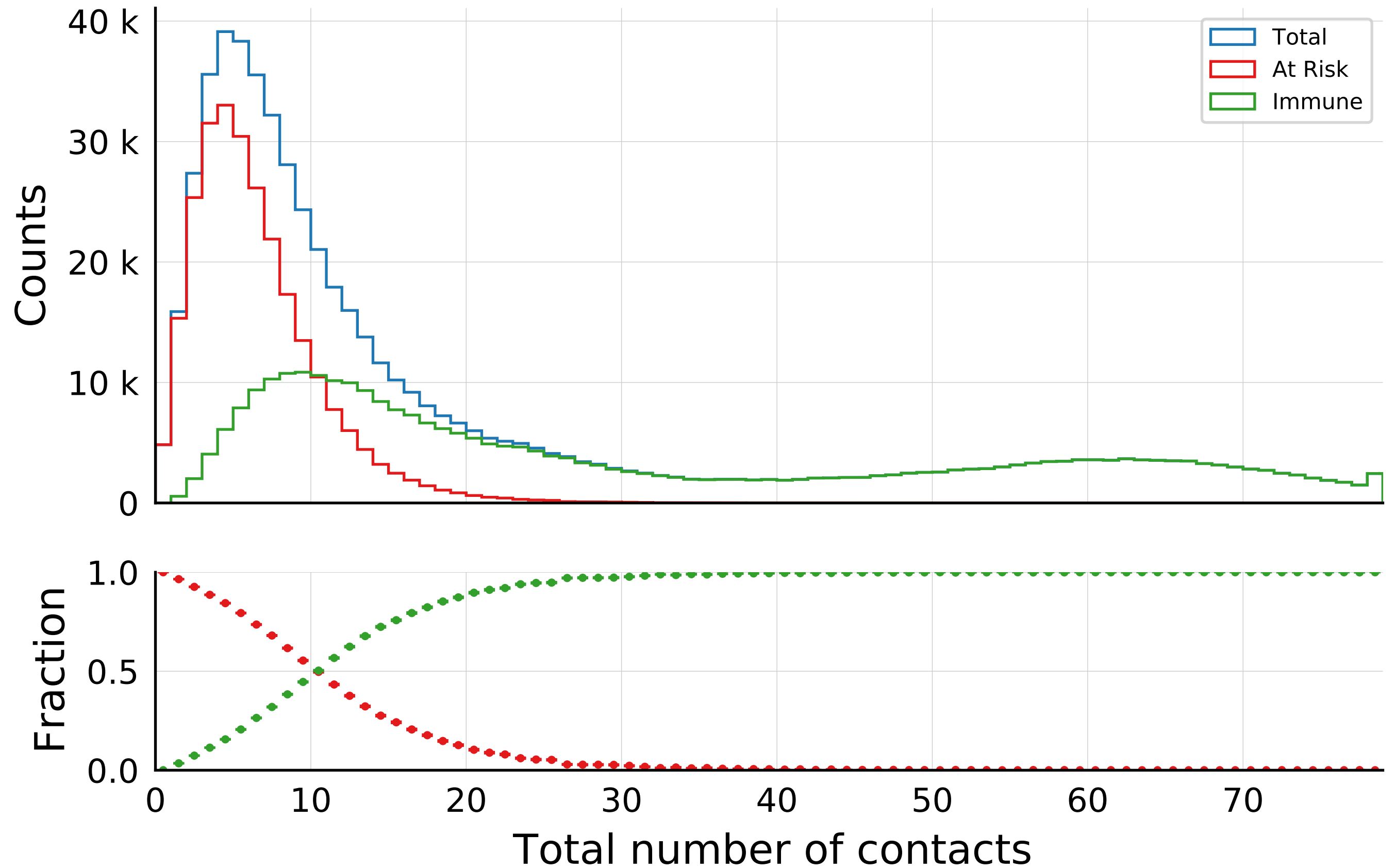$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
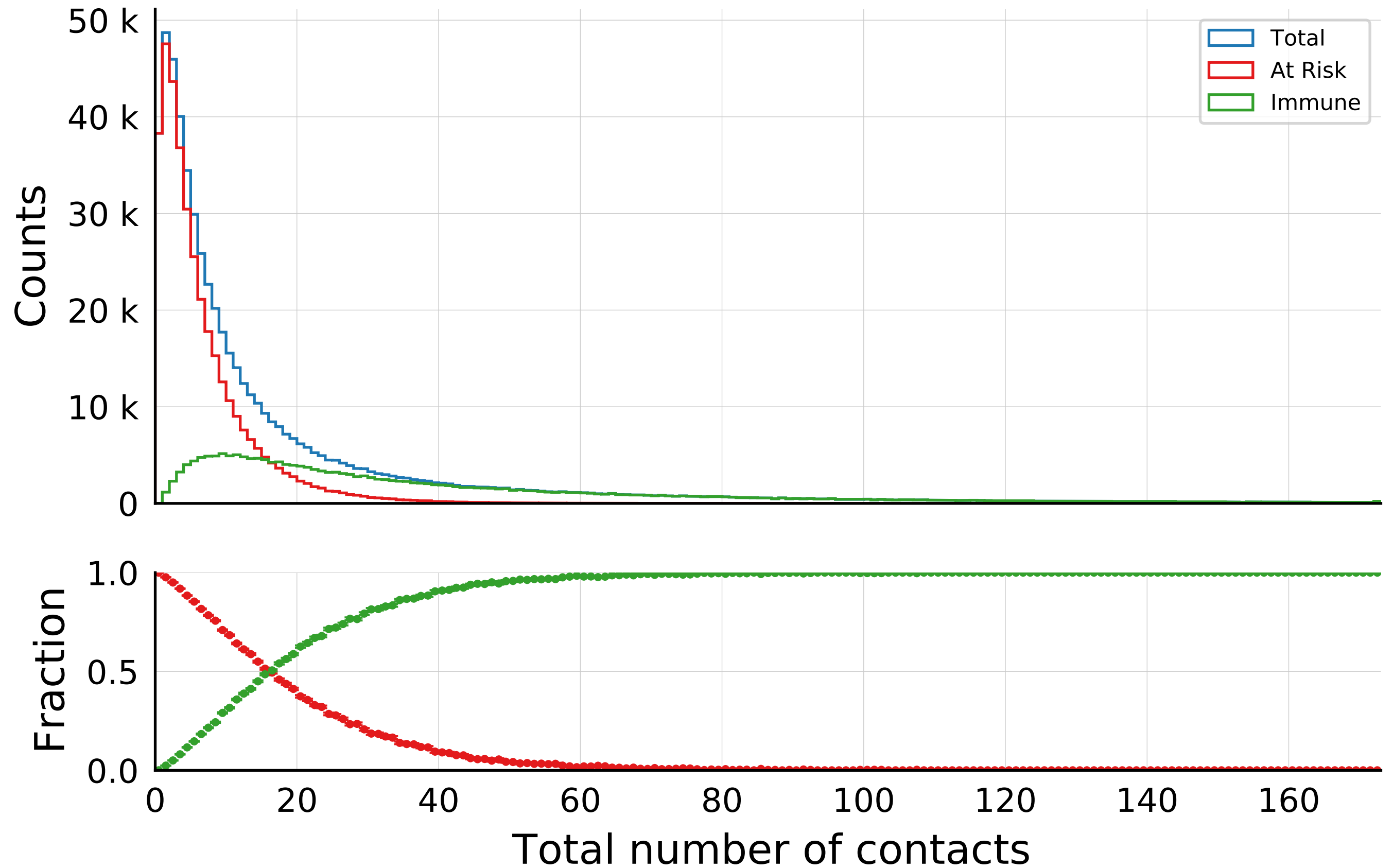$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
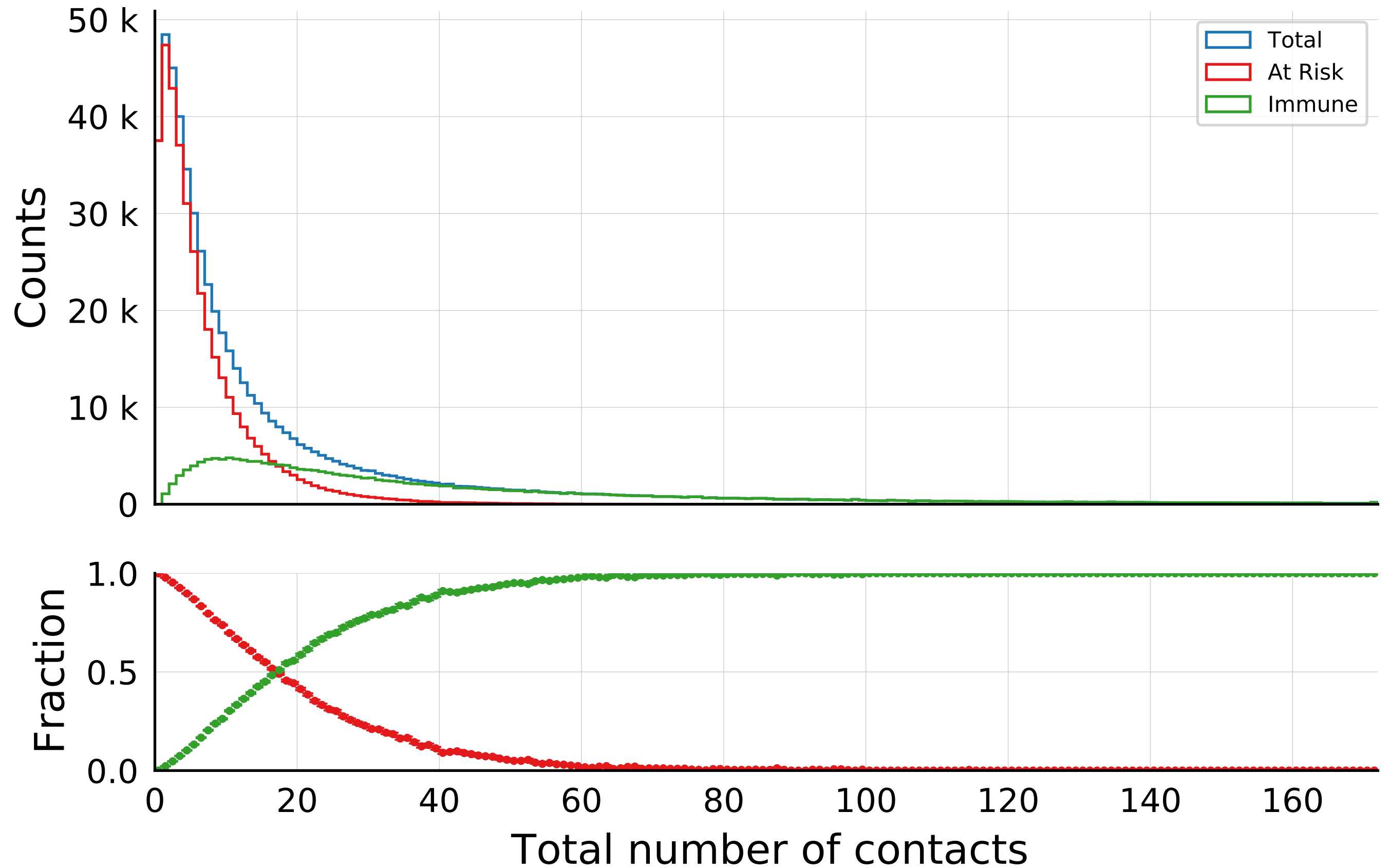$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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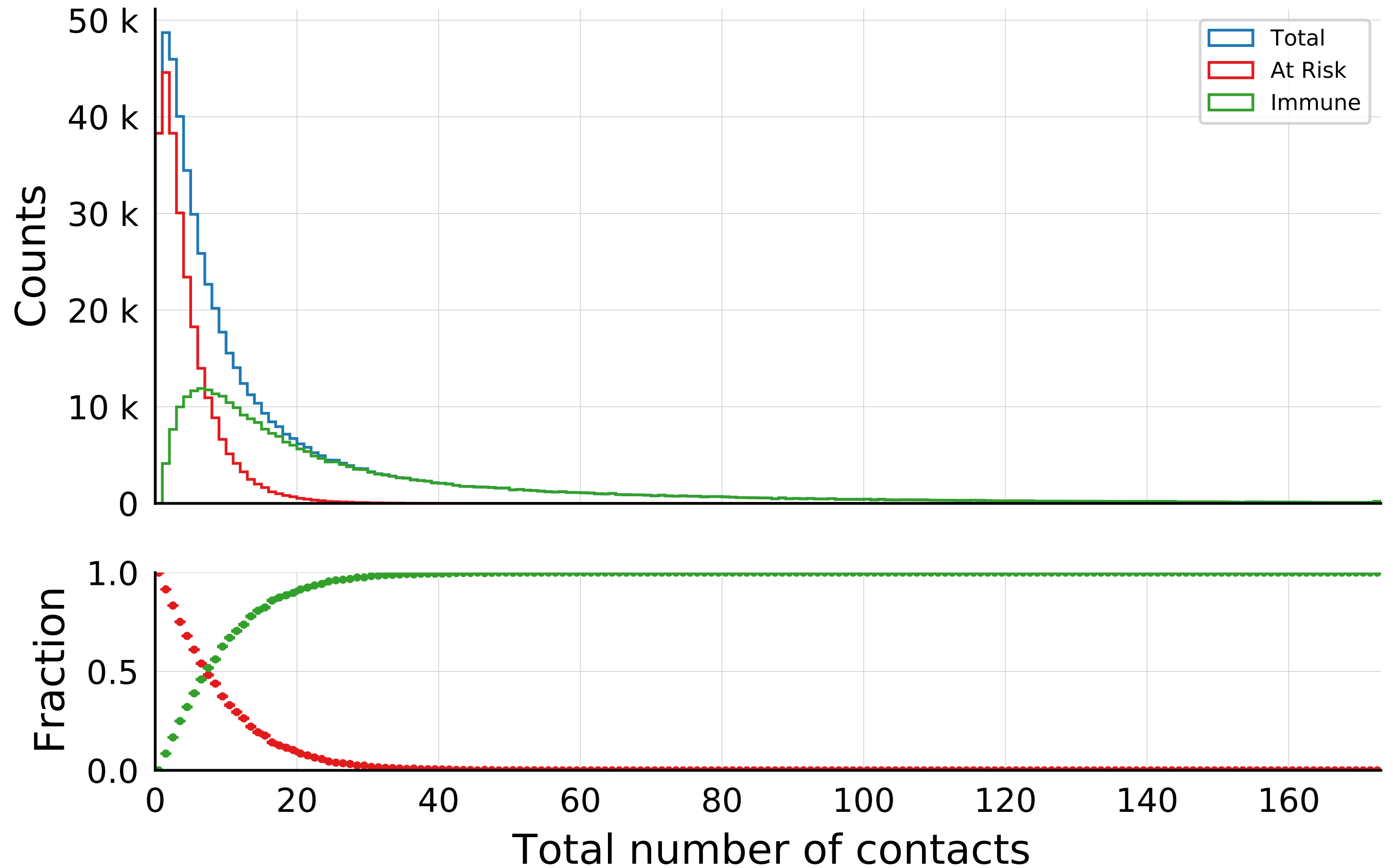$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$
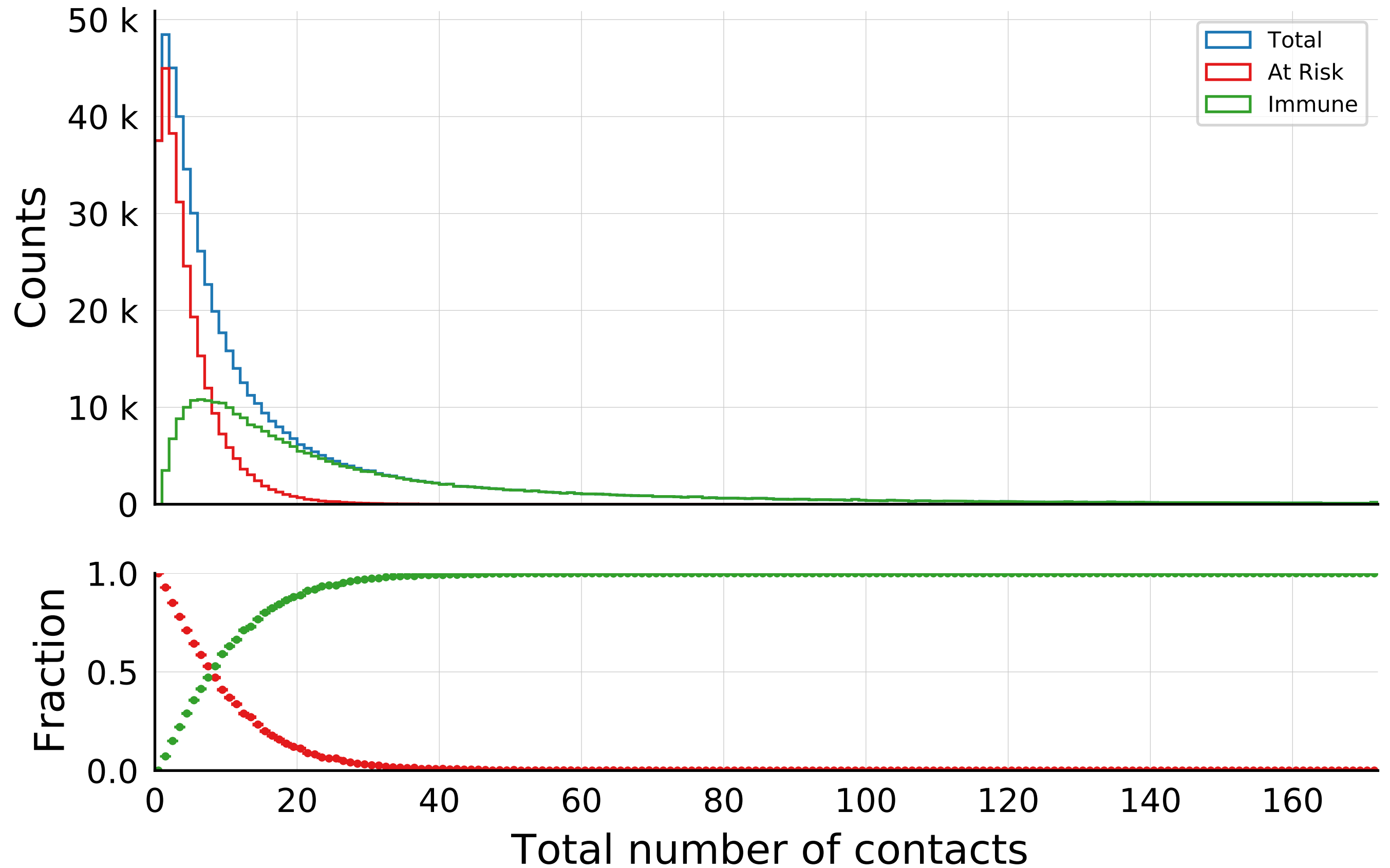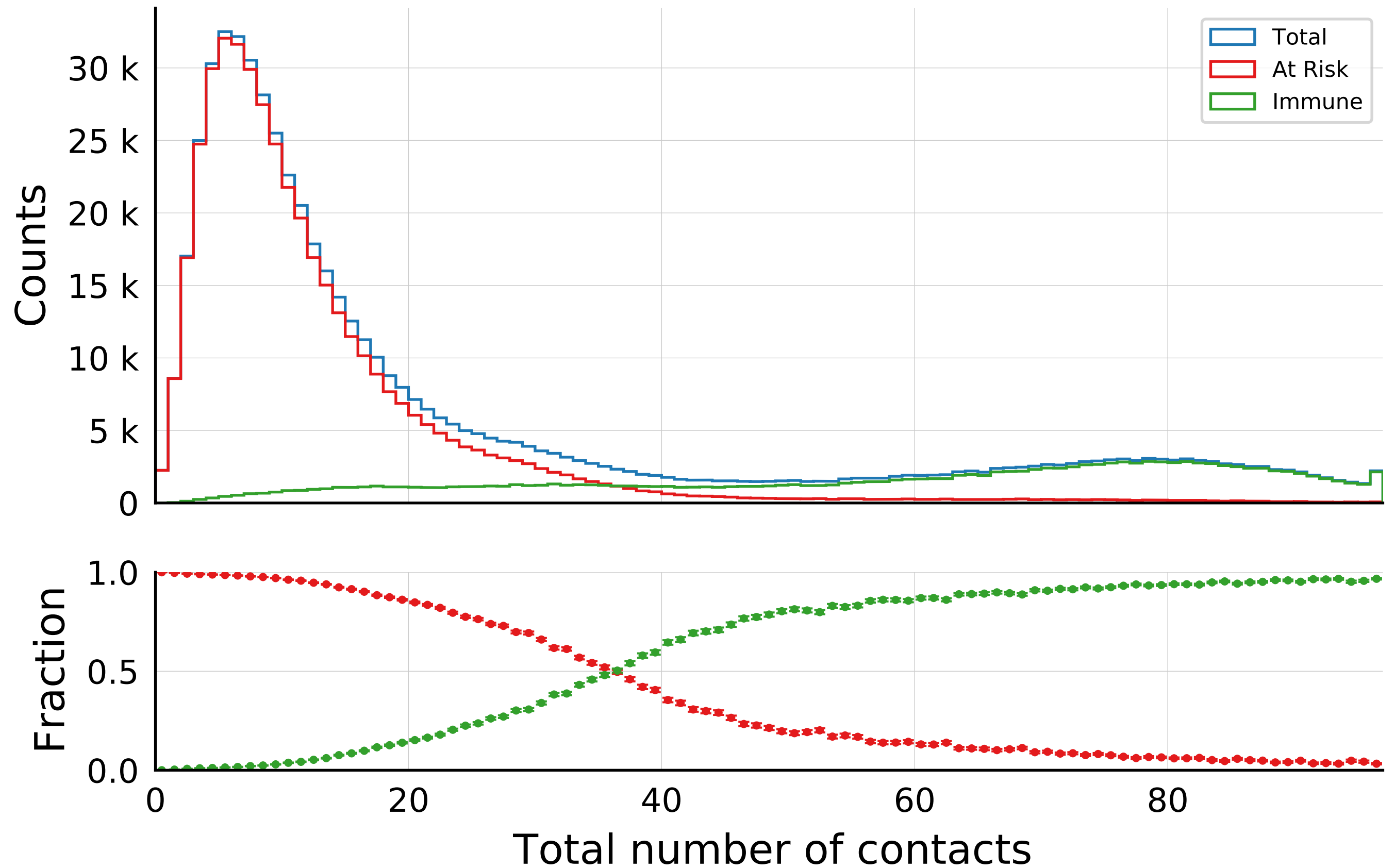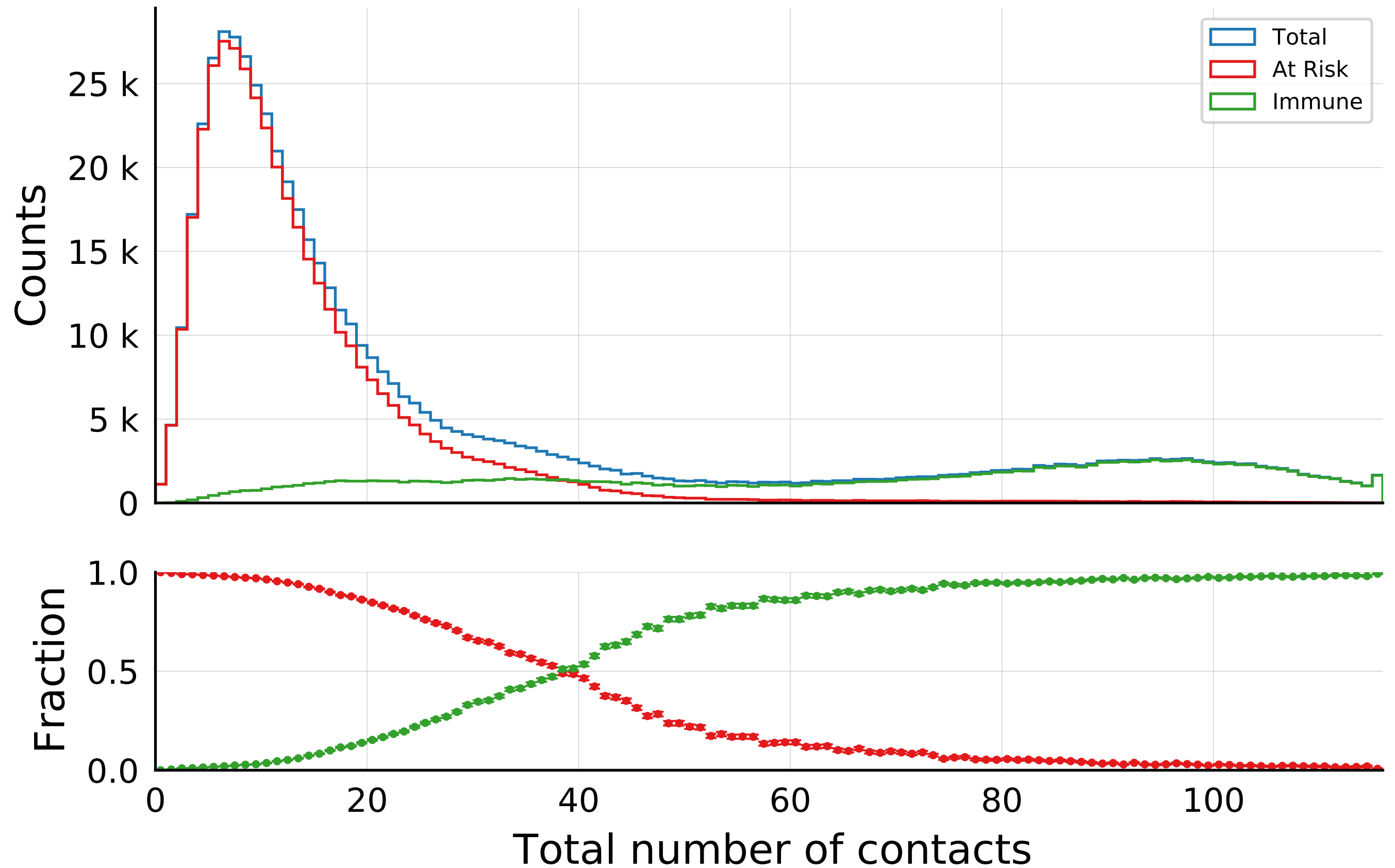$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 20.0,\ \sigma_\mu = 1.0,\ \beta = 0.04,\ \sigma_\beta = 1.0$
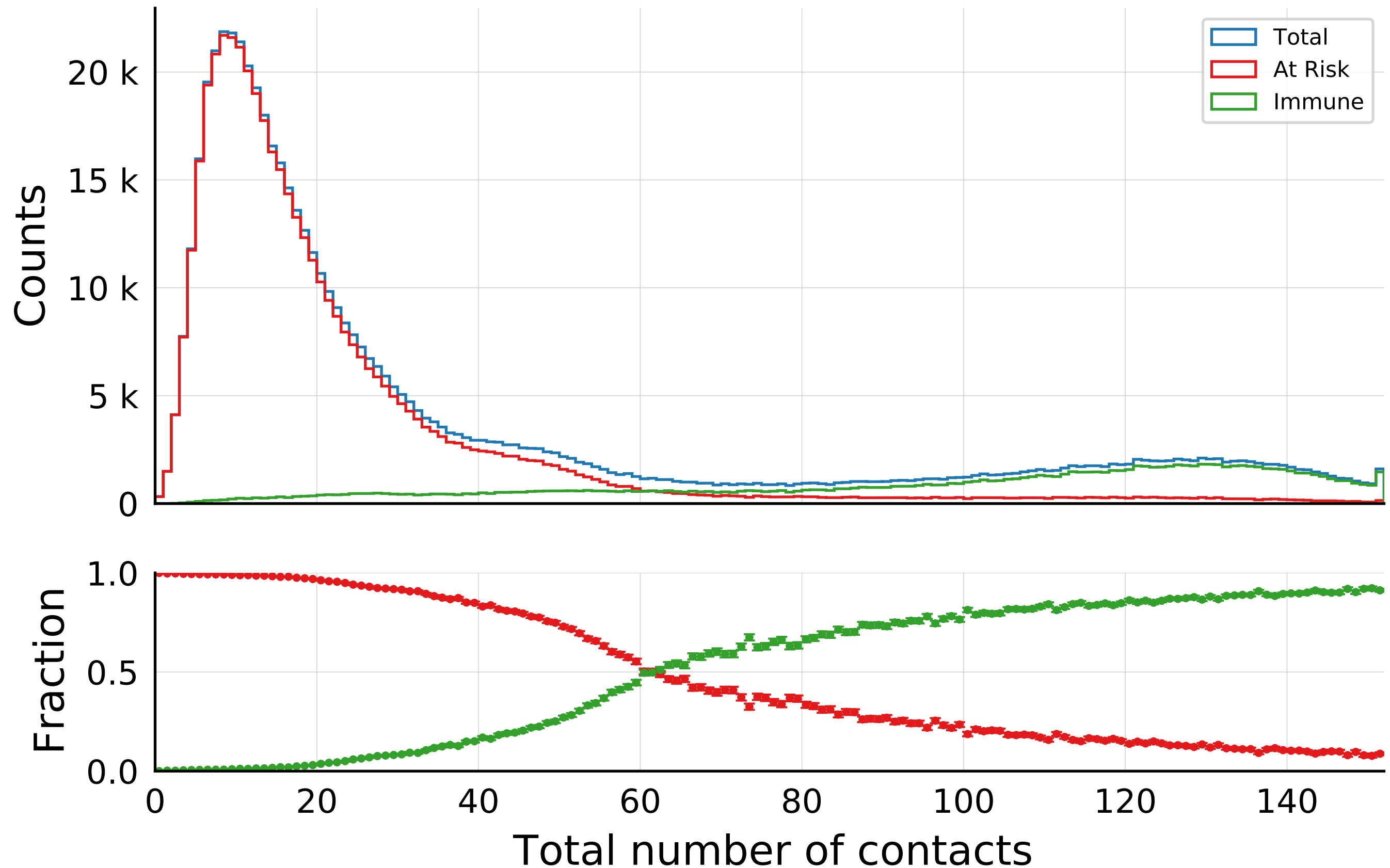$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 25.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 30.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
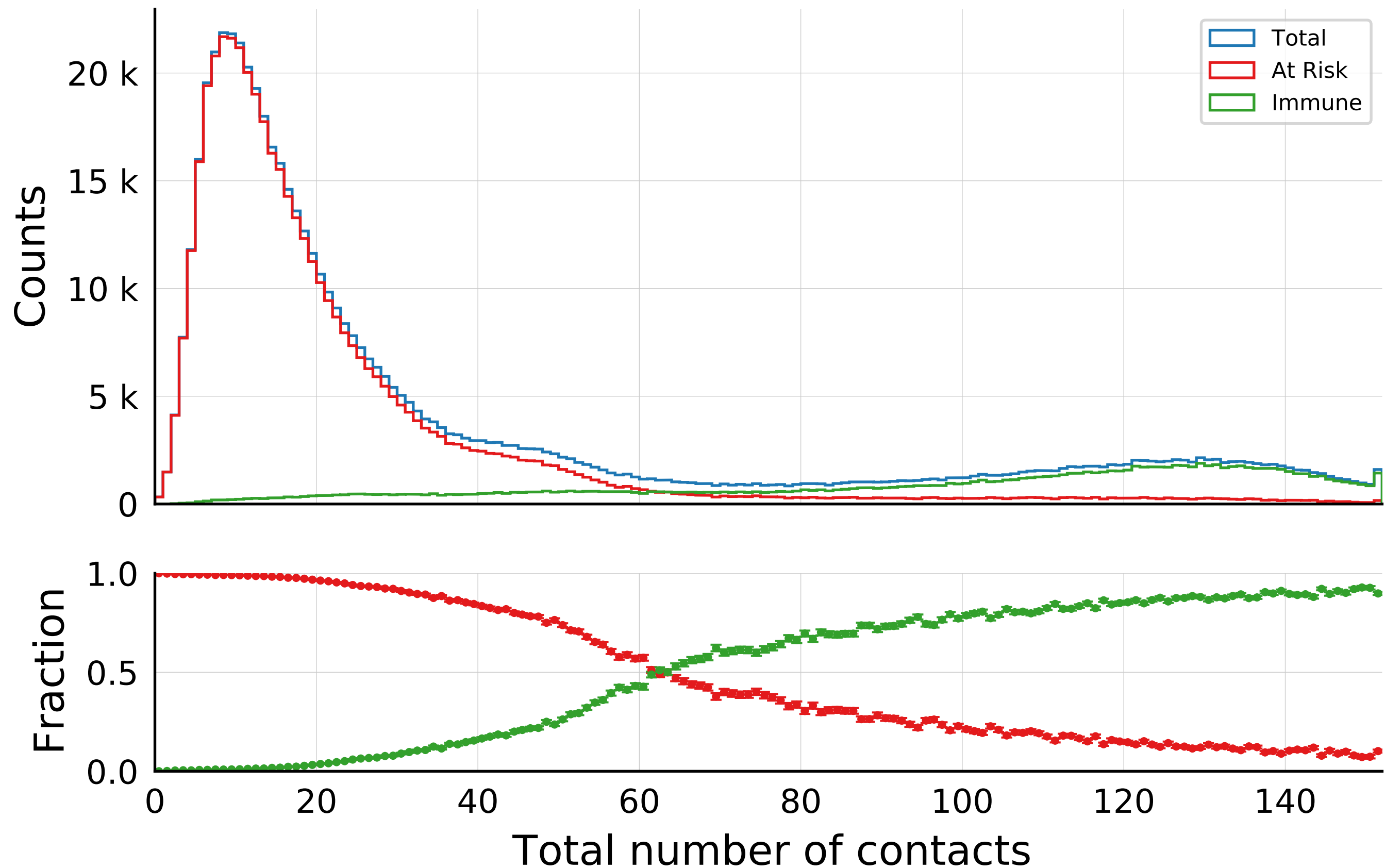$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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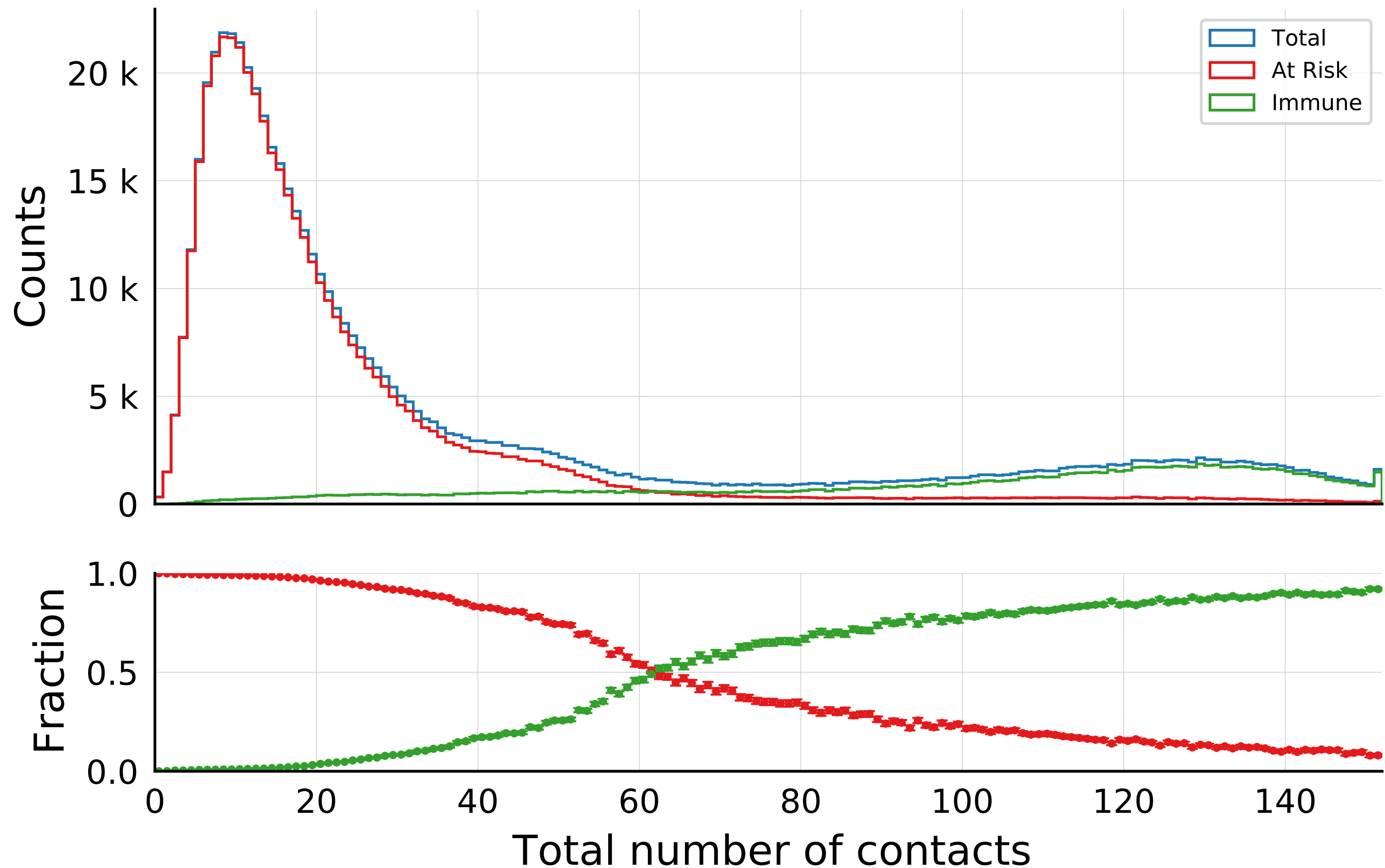$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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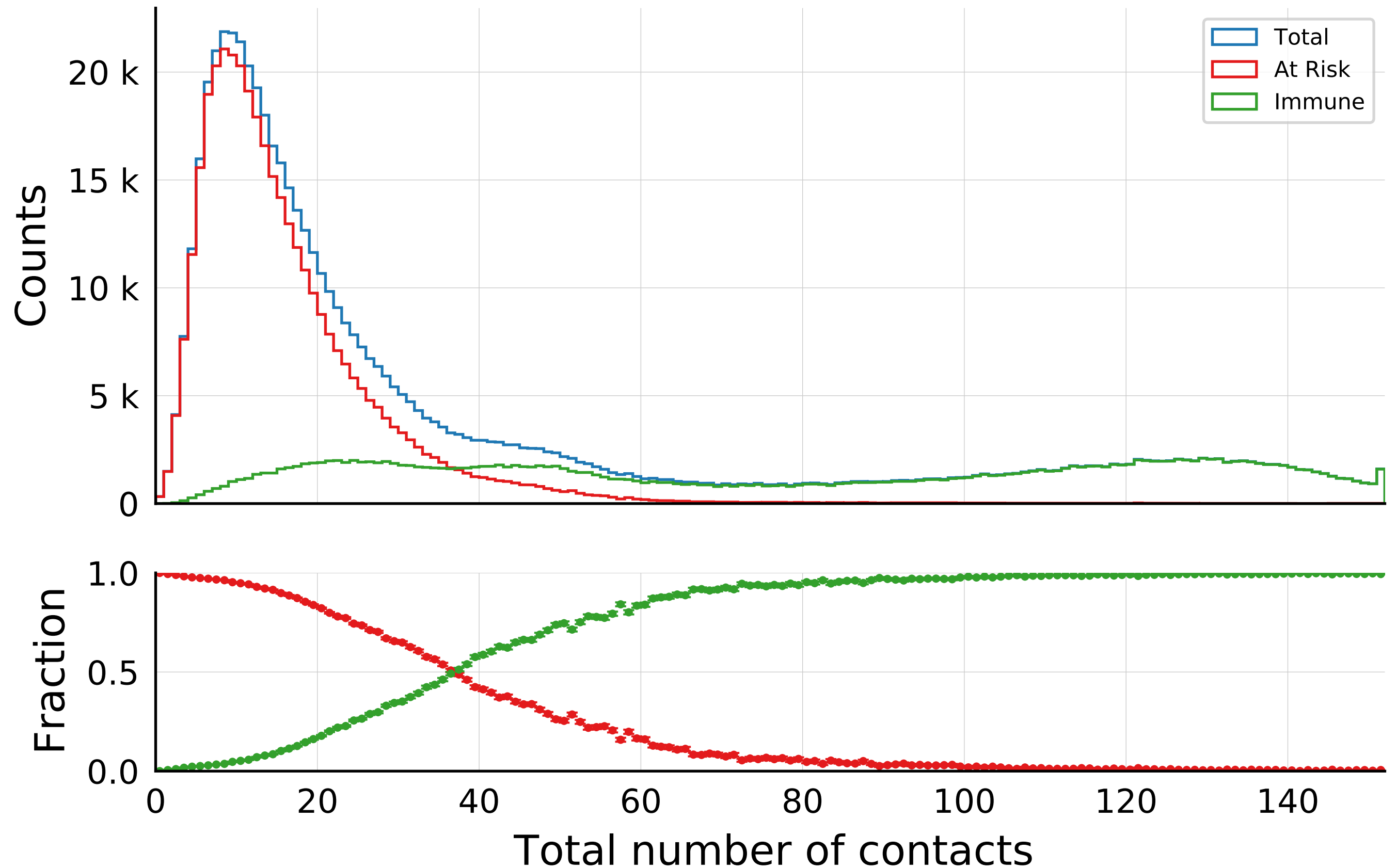$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 1.0$
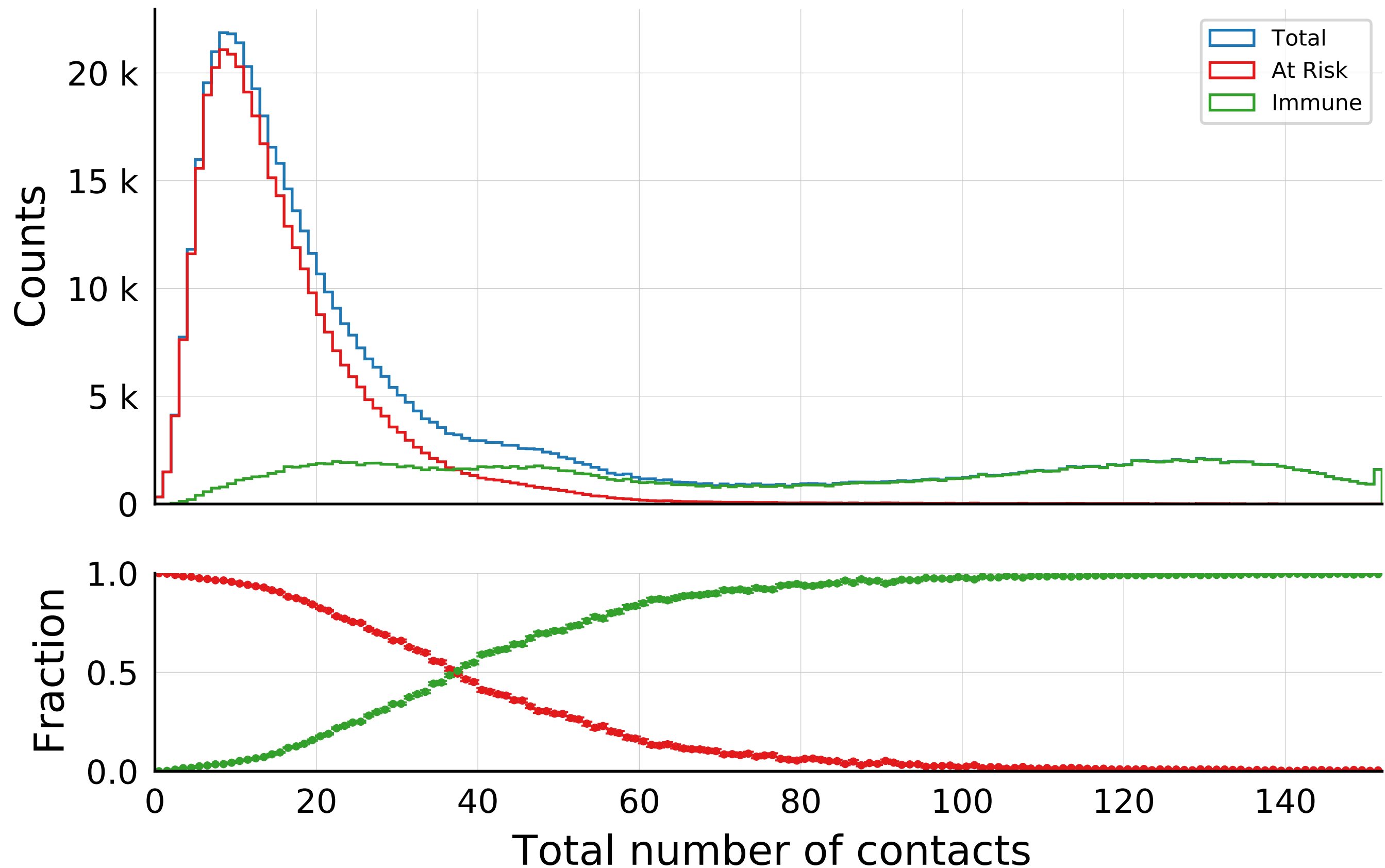$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
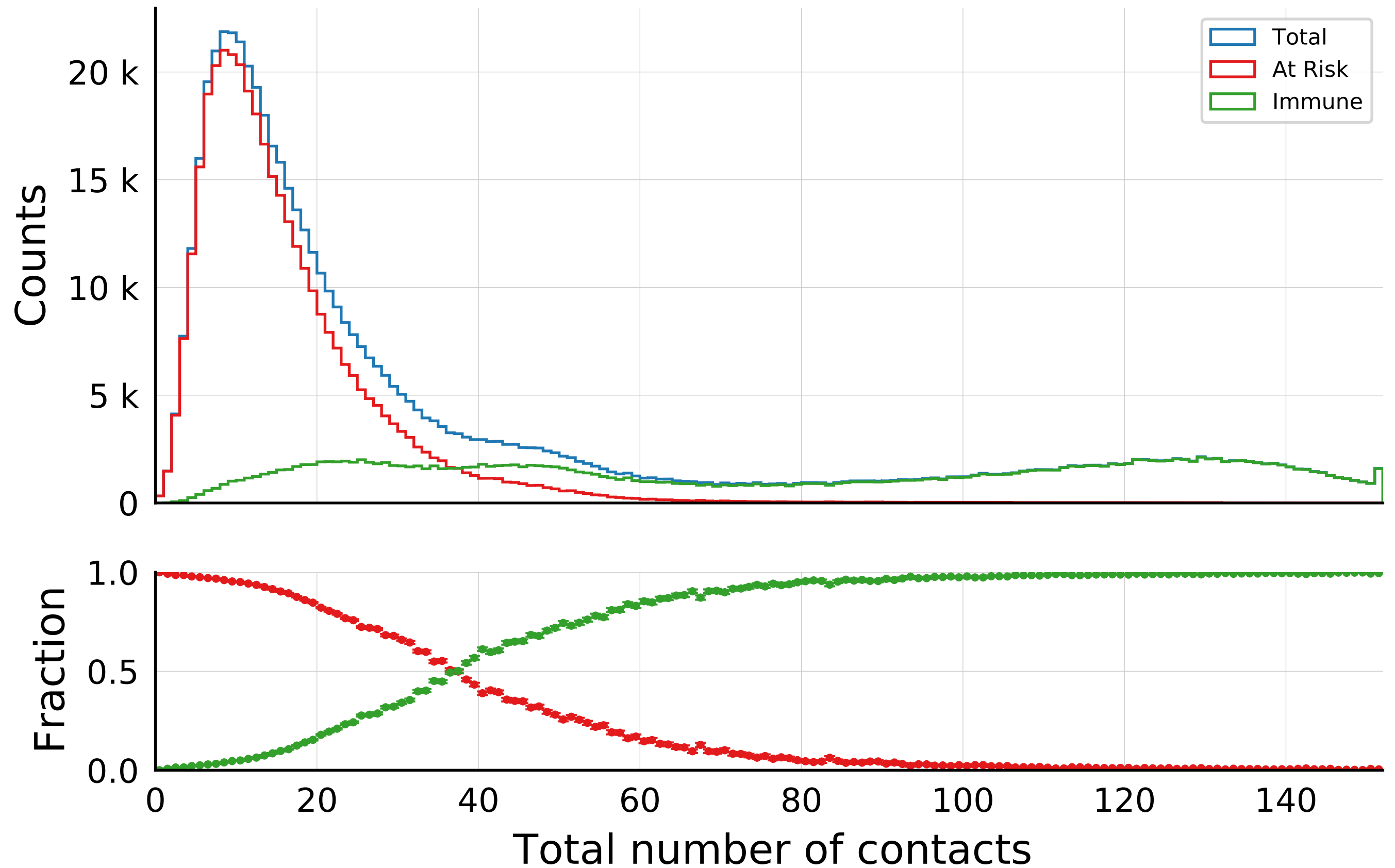$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$
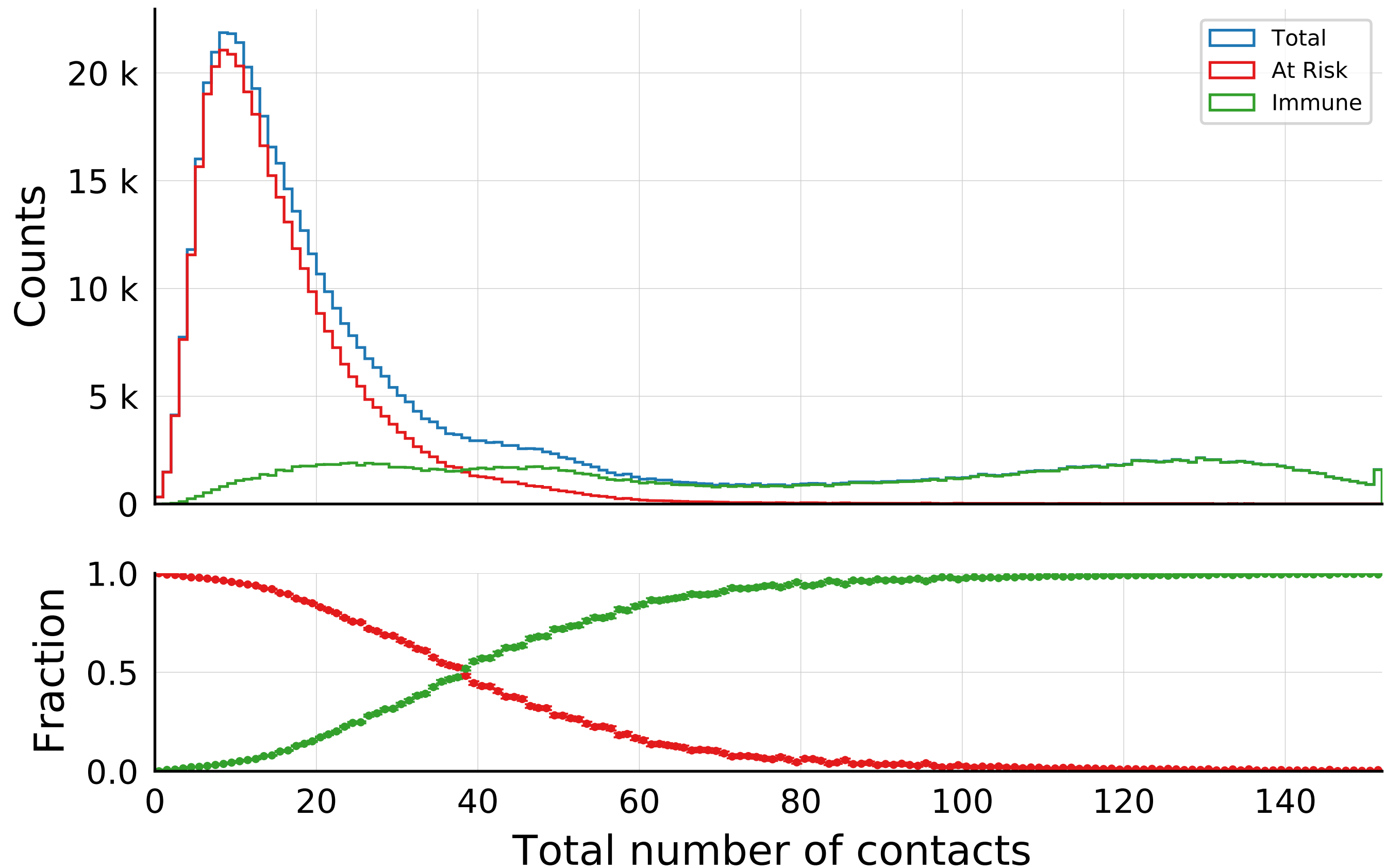$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$
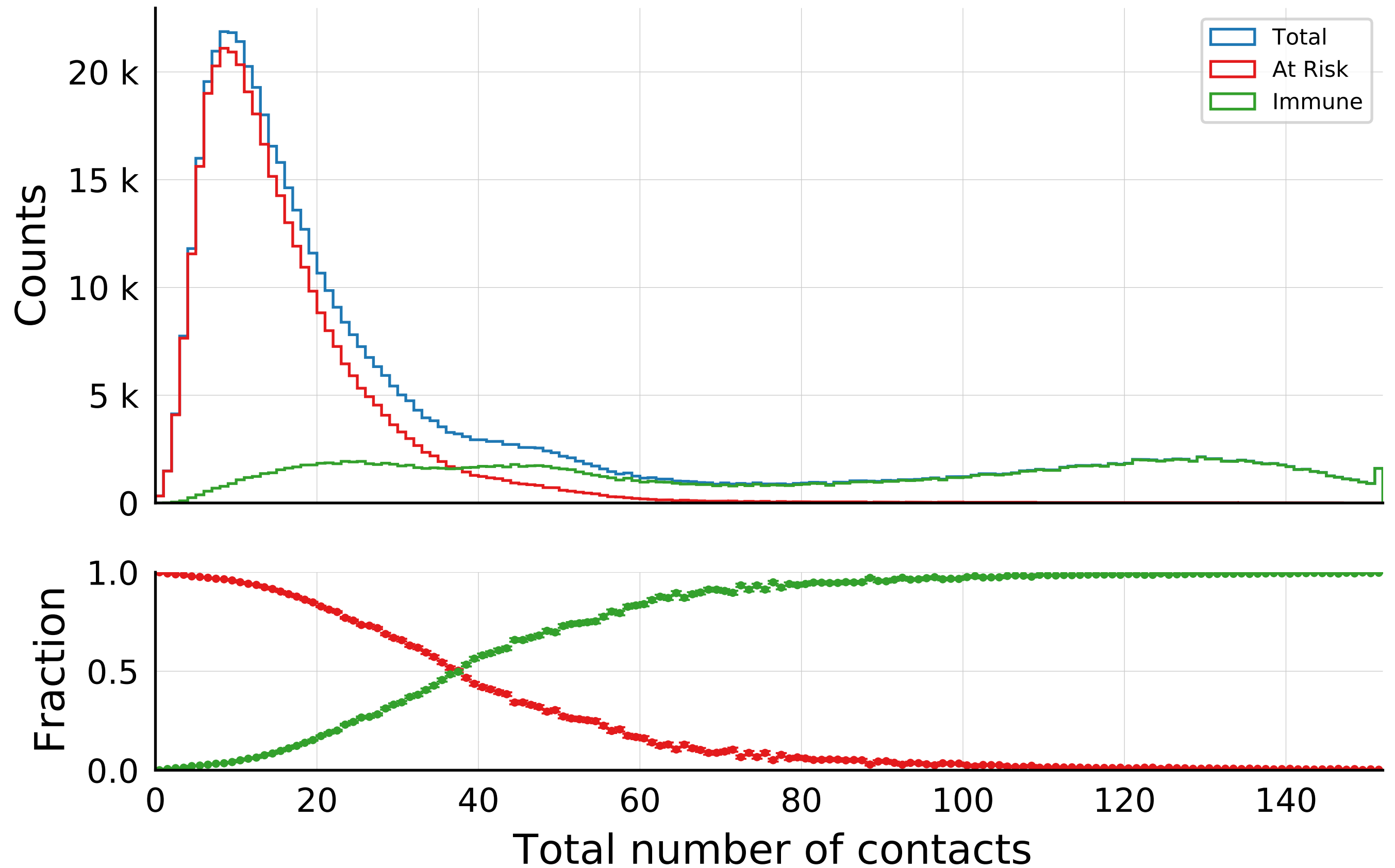$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$
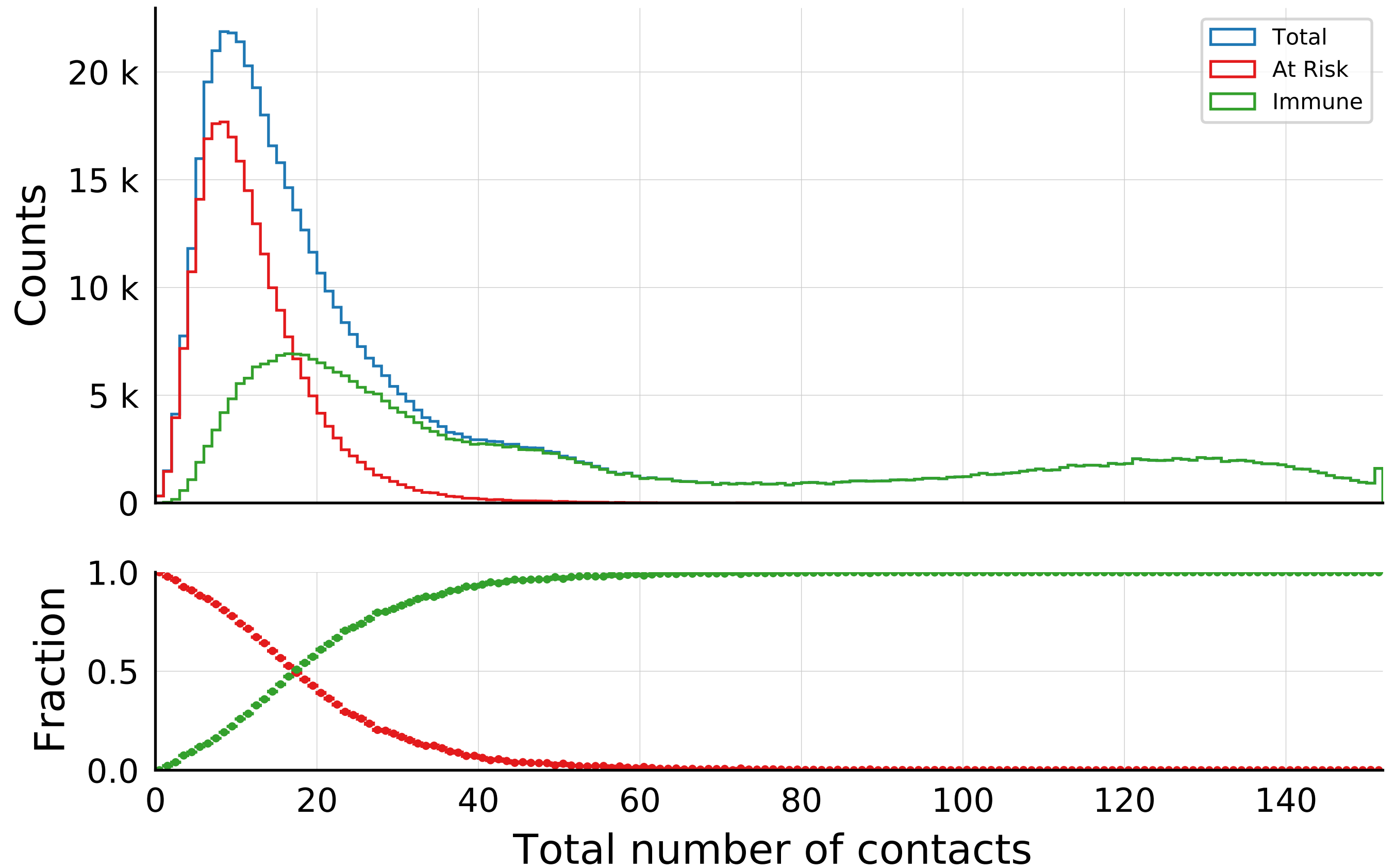$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 1.0$
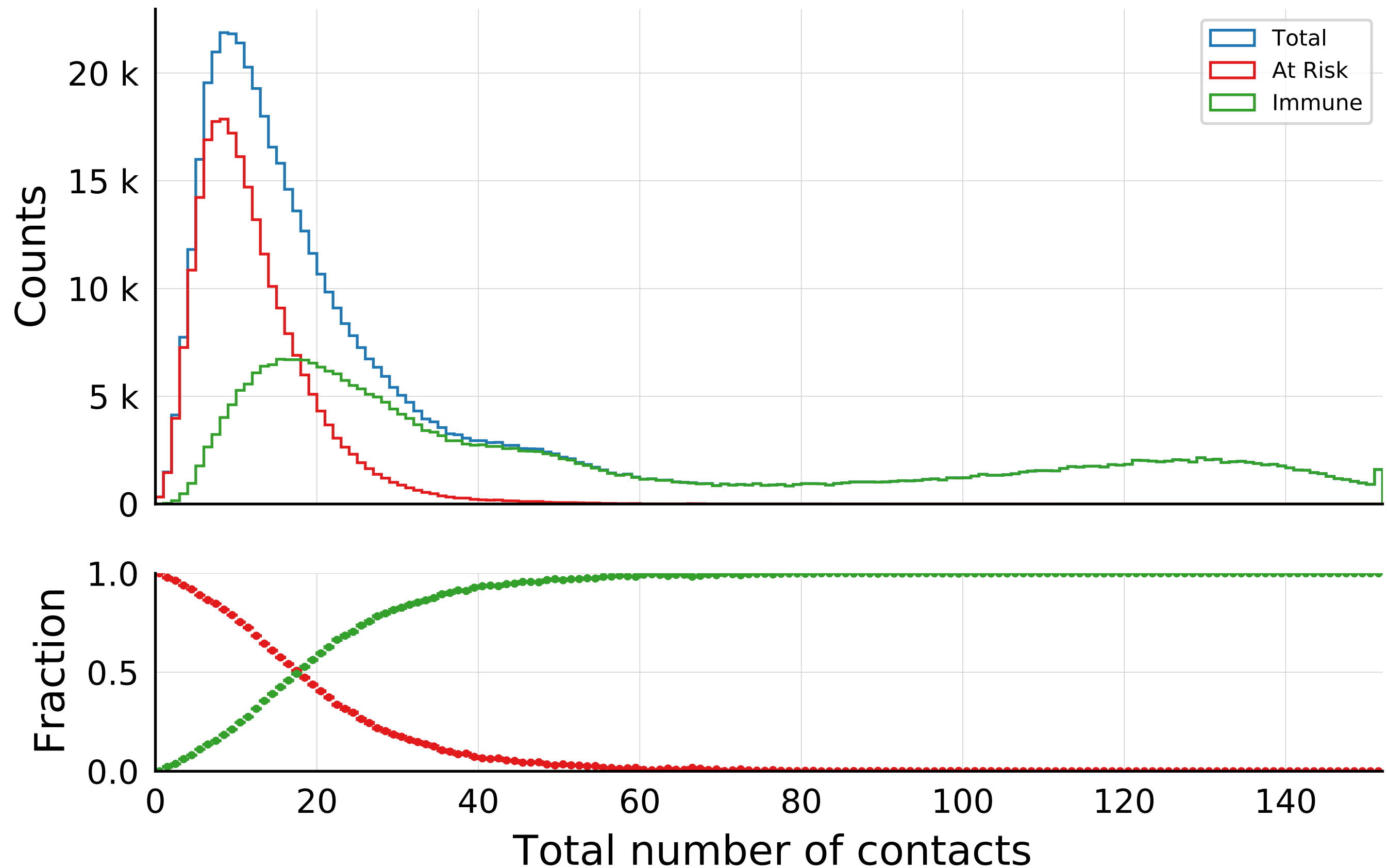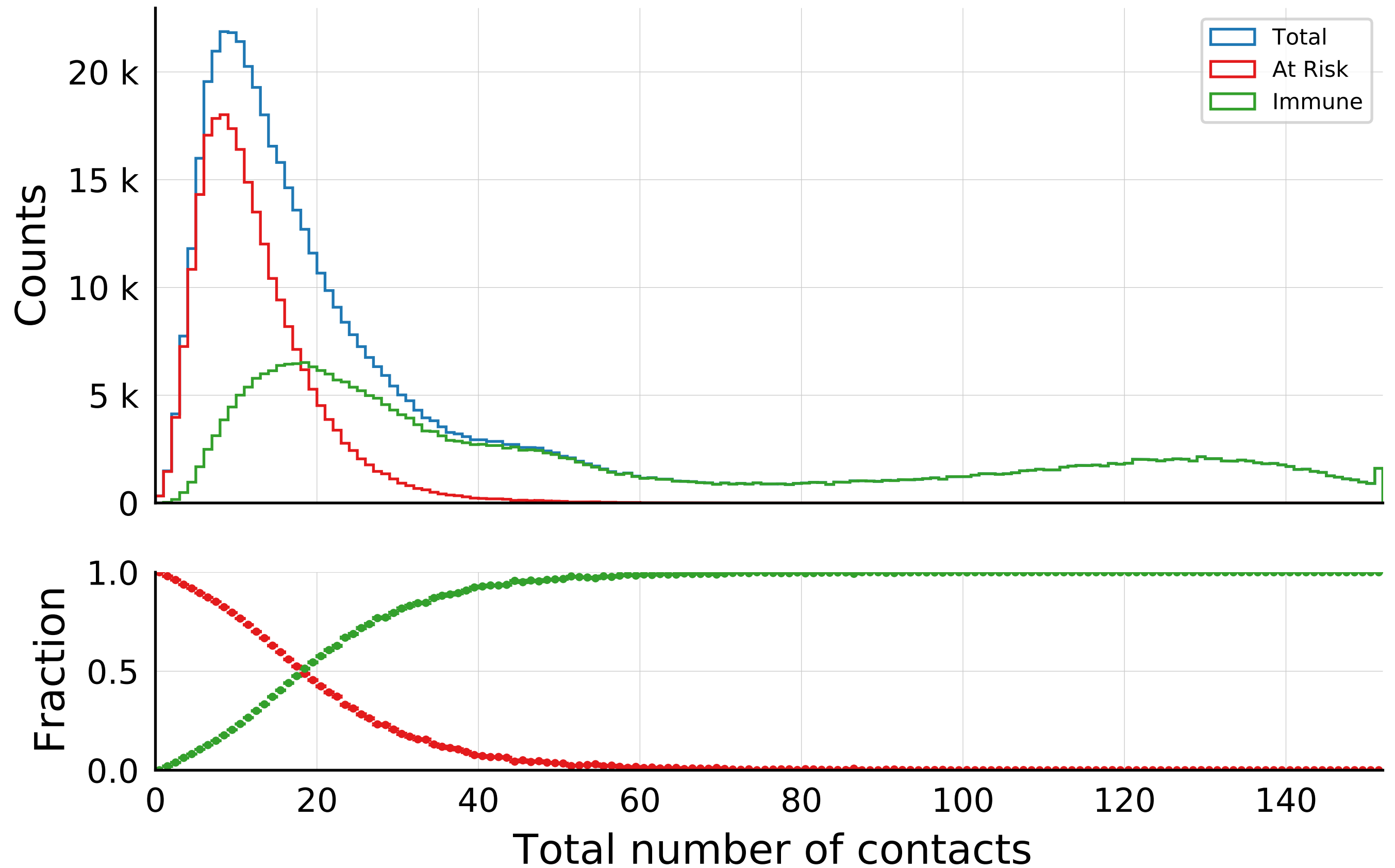$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.02,\ \sigma_\beta = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$
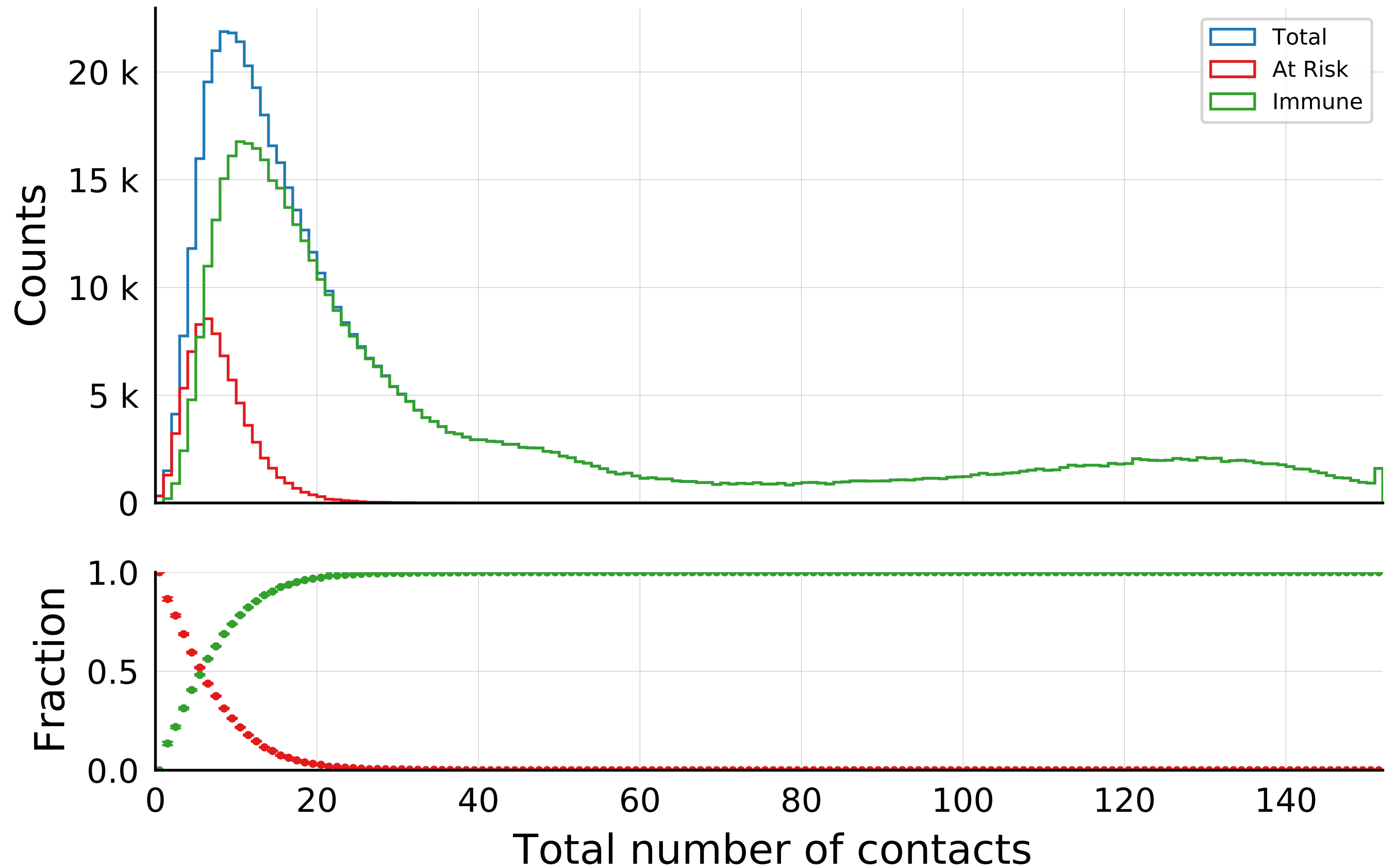
$N_{\mathrm{tot}} = 580K$, $N_{\mathrm{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.5$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$
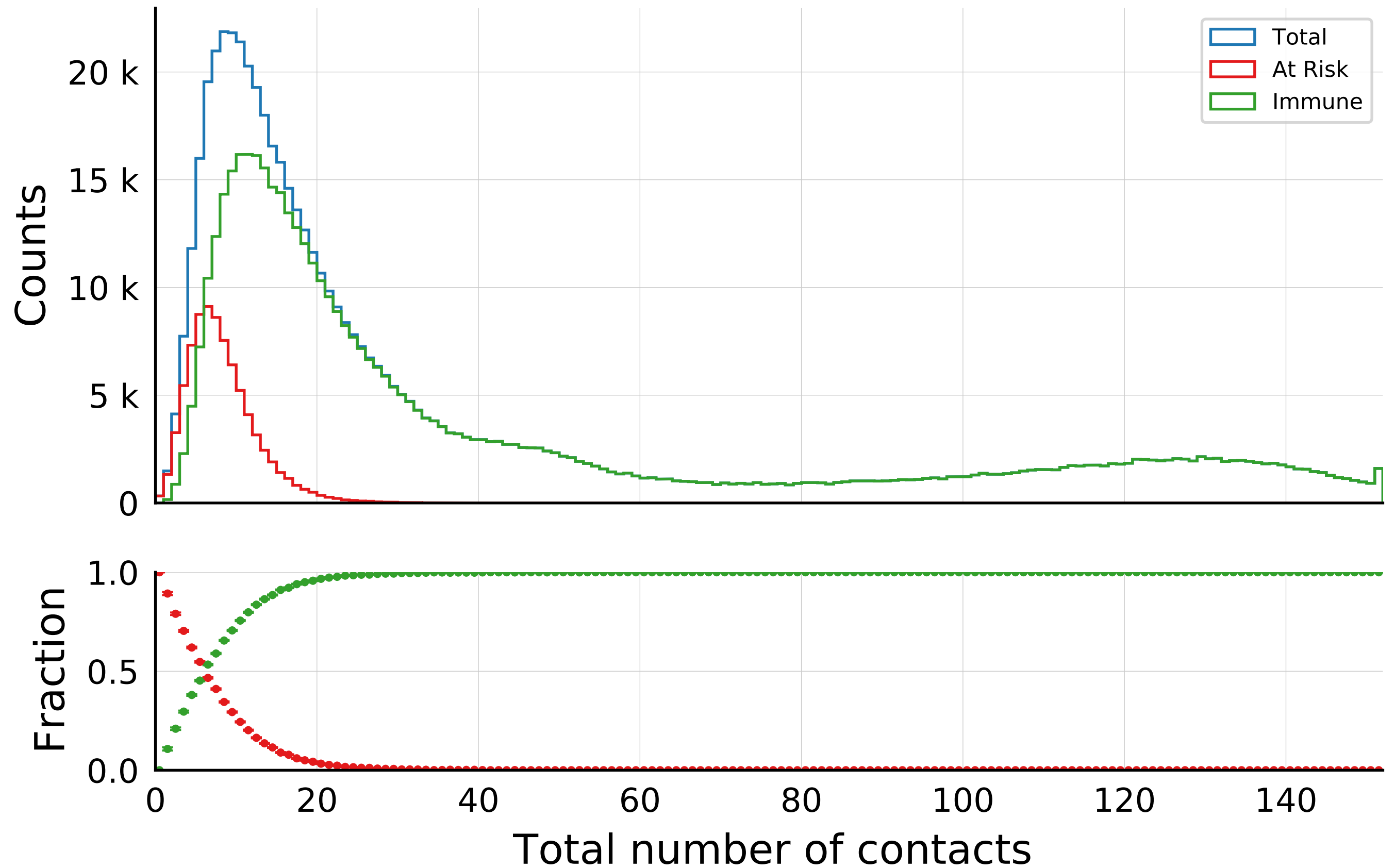$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 0.0$
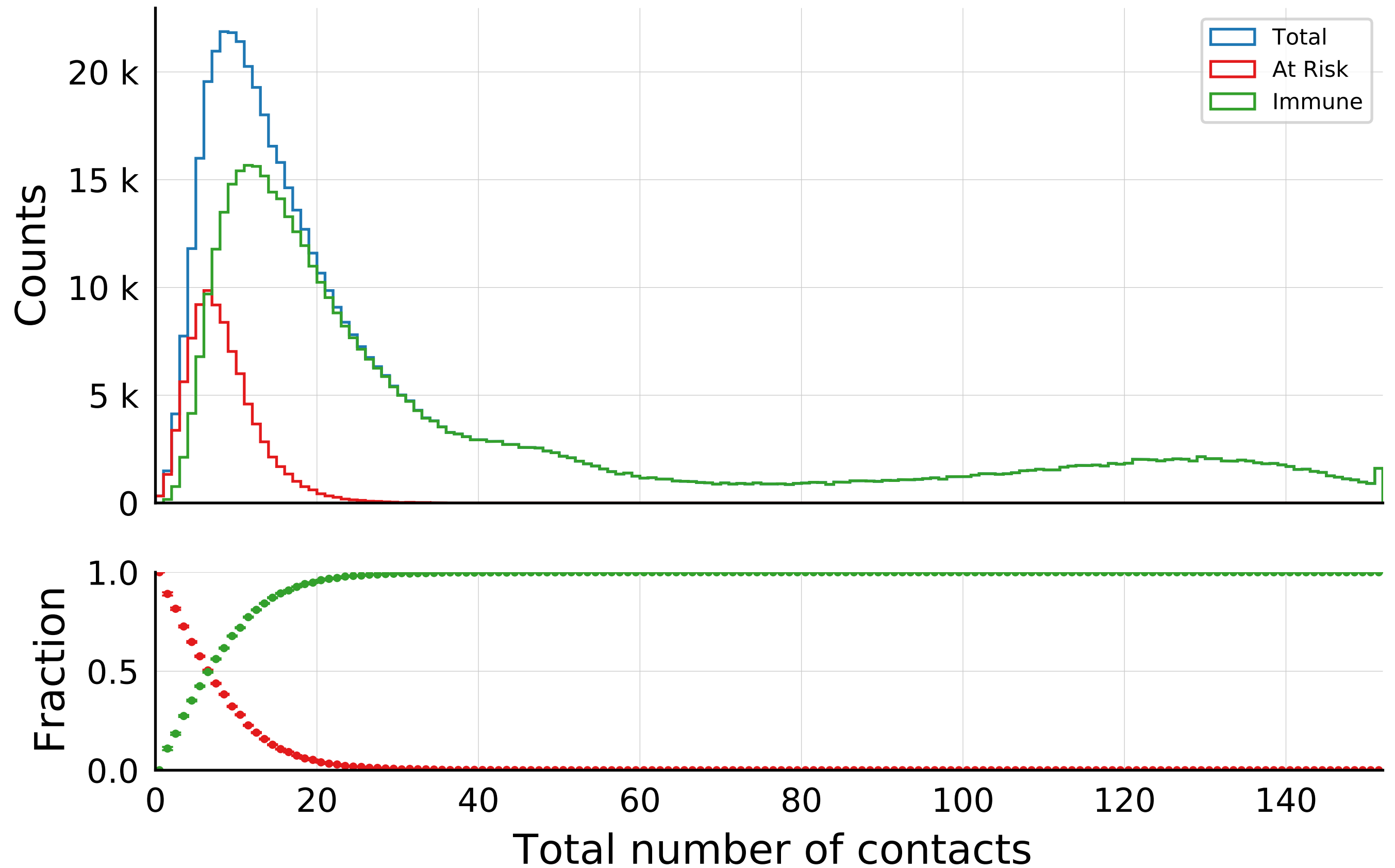$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 0.5$
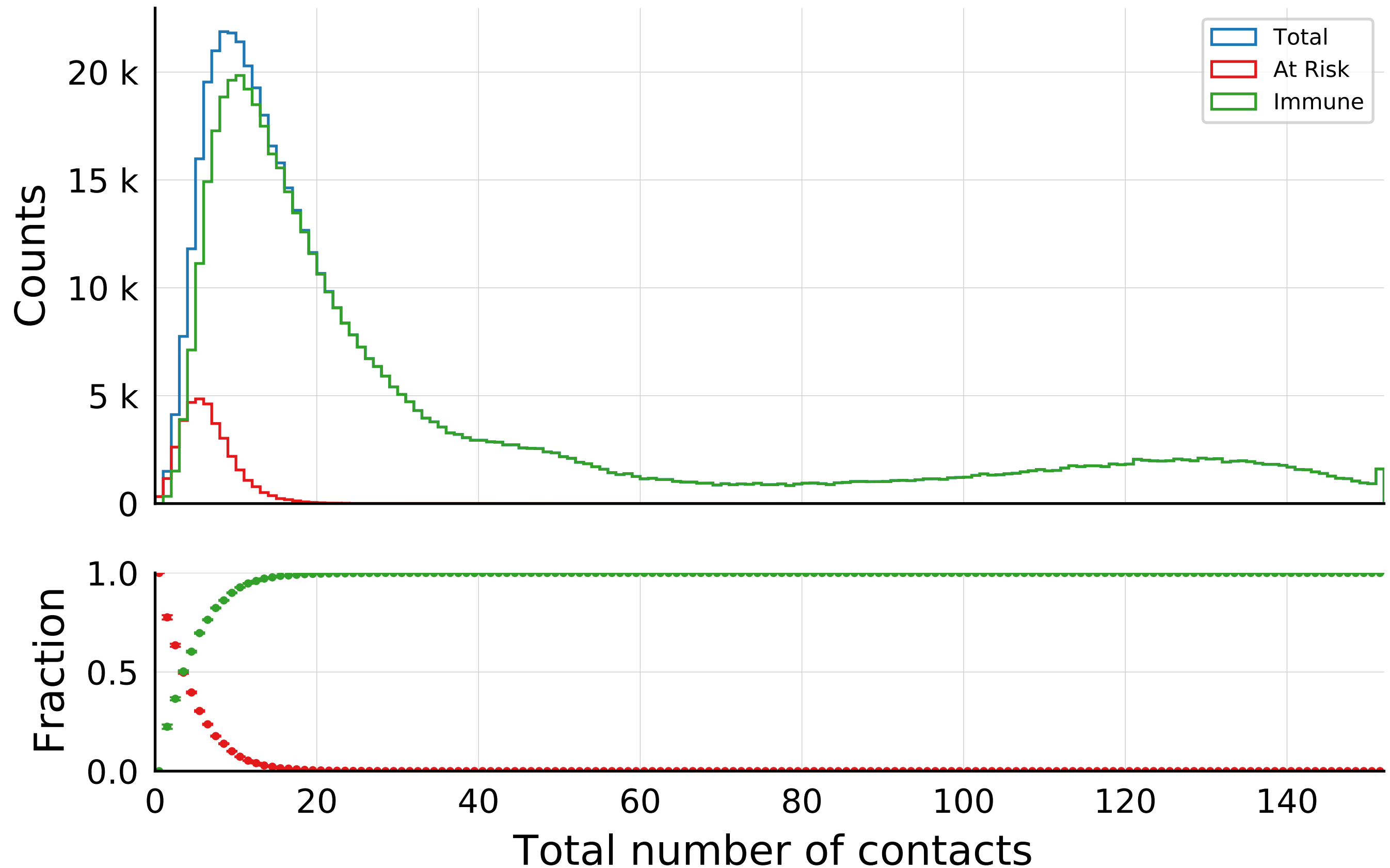$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_{\rho} = 0.04$, $\mu = 40.0$, $\sigma_{\mu} = 0.0$, $\beta = 0.075$, $\sigma_{\beta} = 0.0$
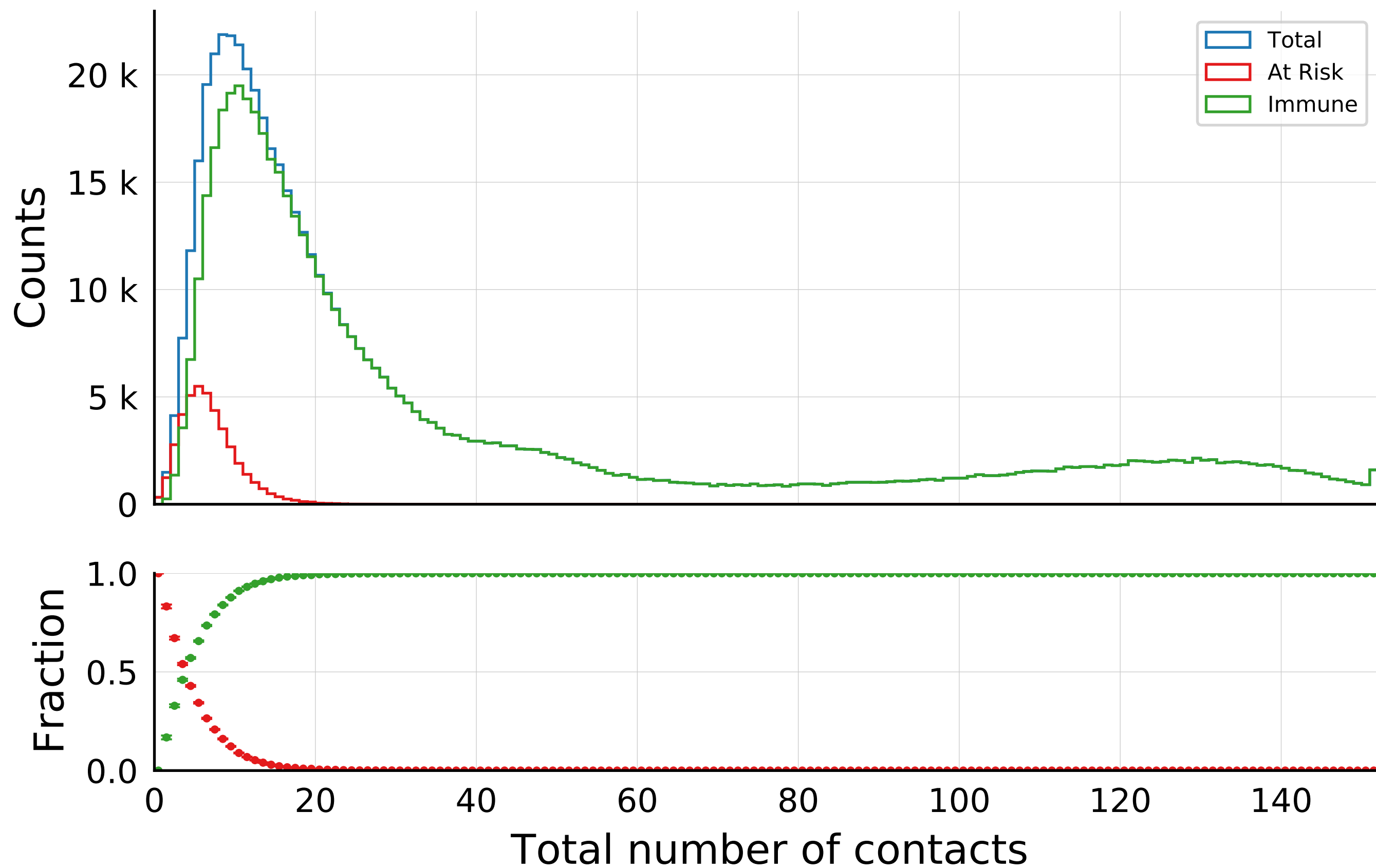$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$
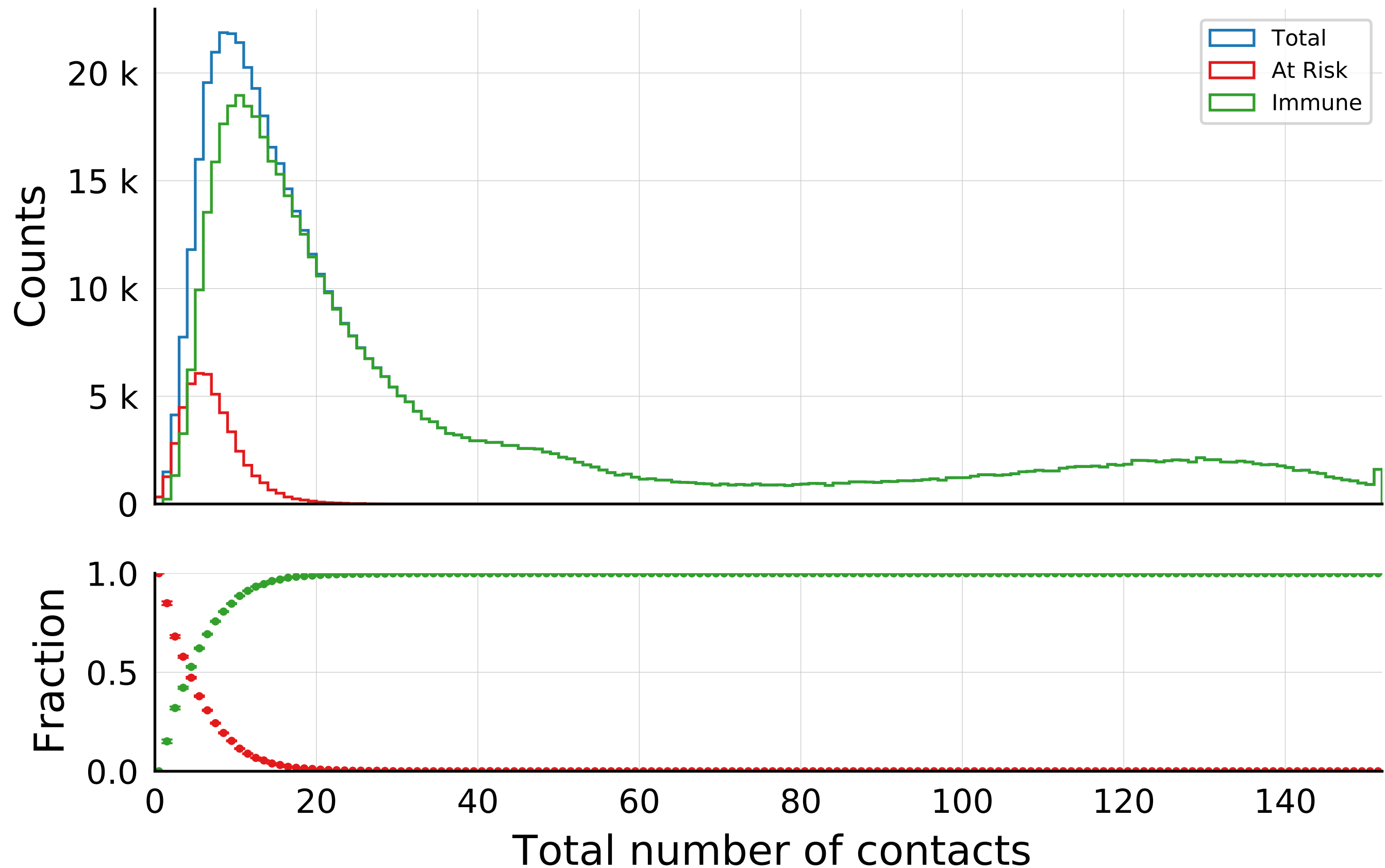
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.075$, $\sigma_\beta = 0.5$
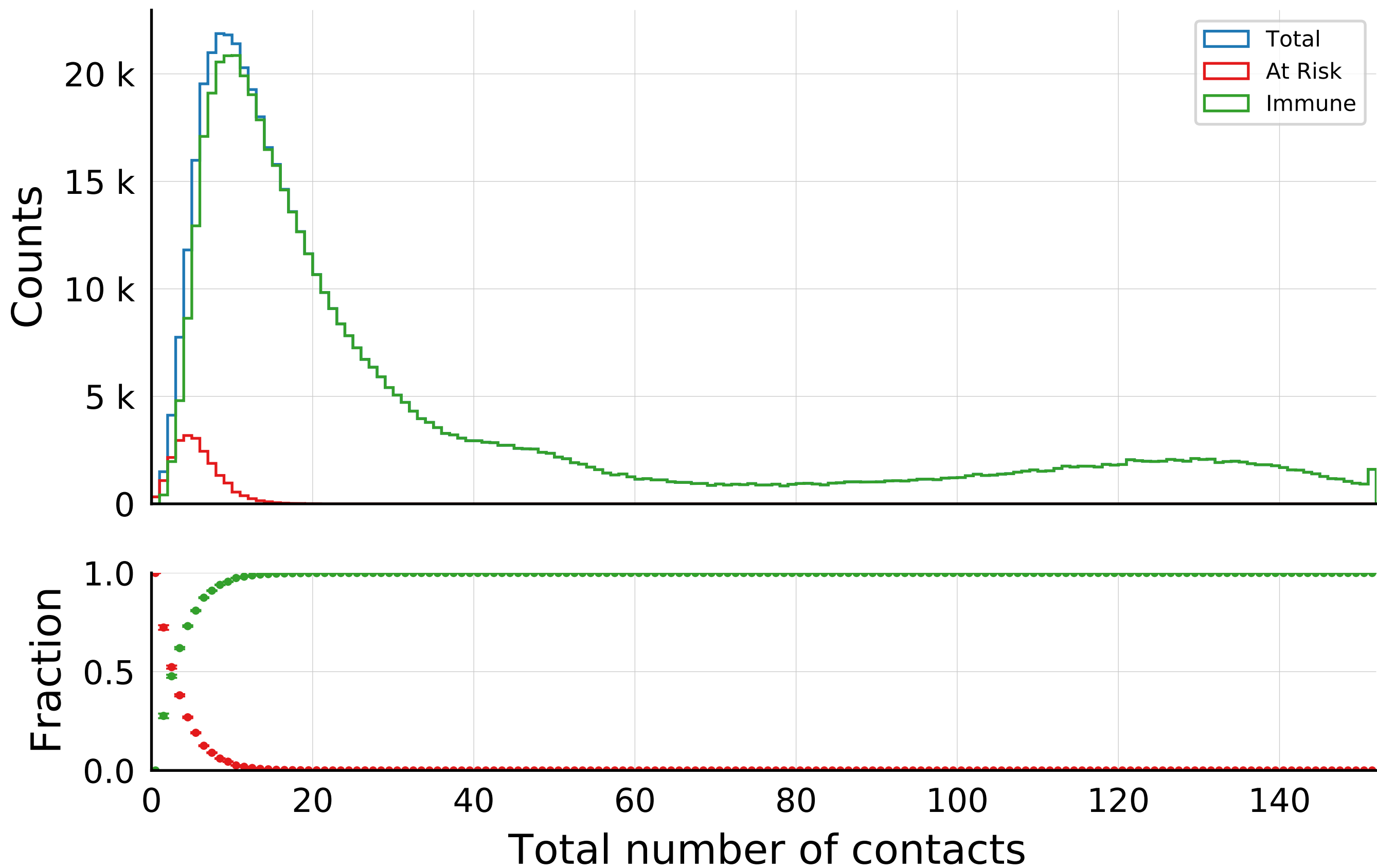$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.075$, $\sigma_\beta = 1.0$
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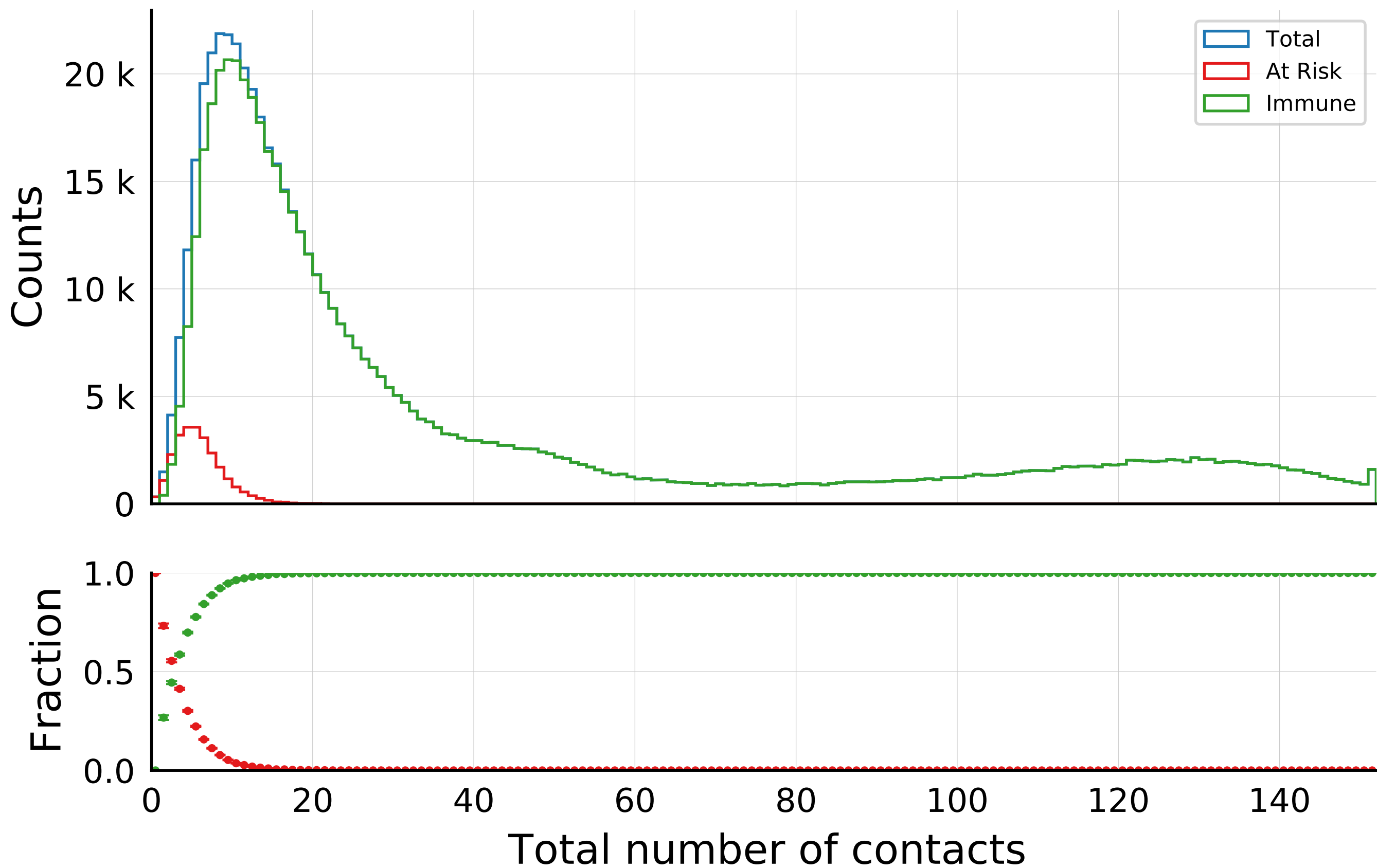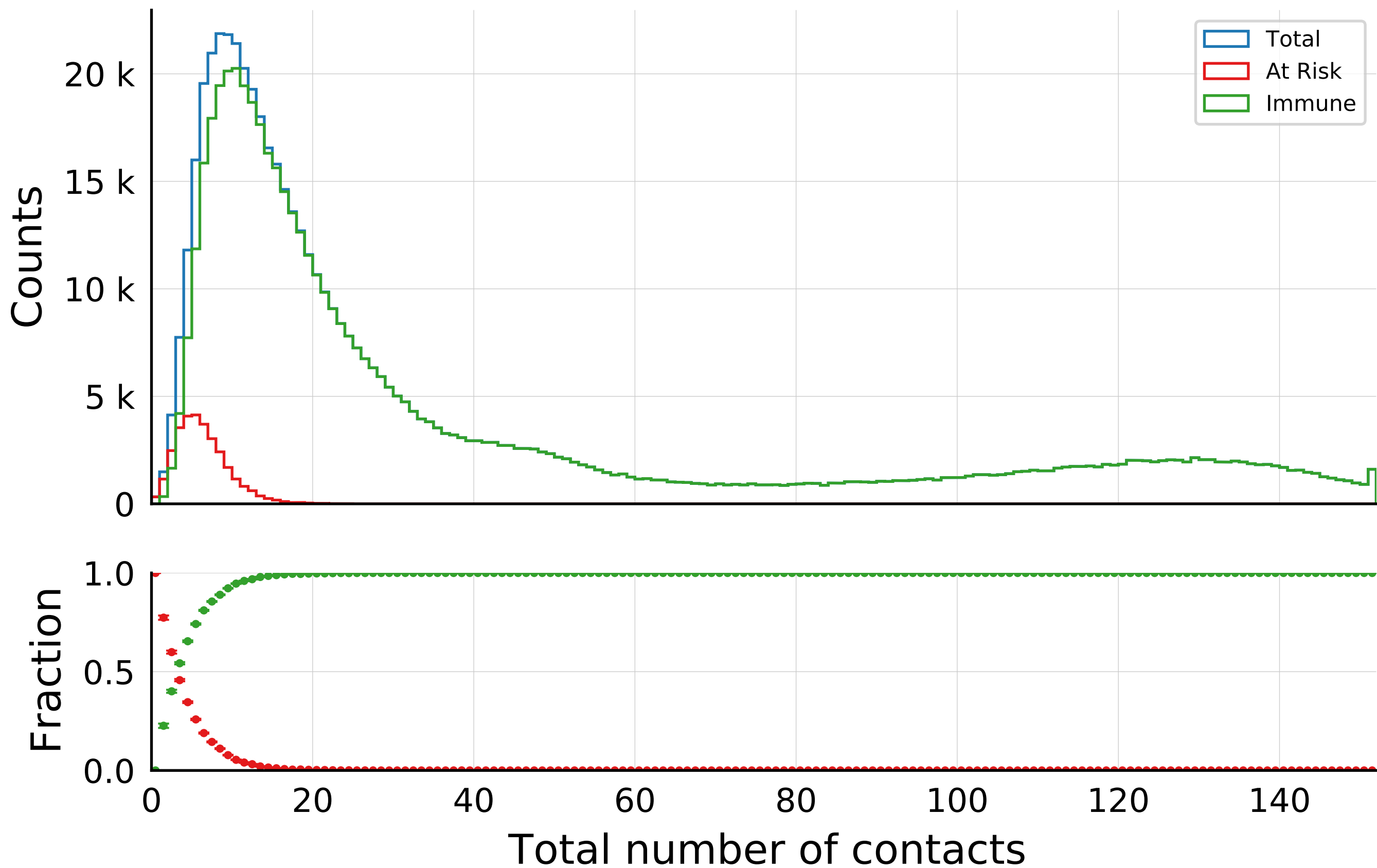
$N_{\text{tot}} = 580K, N_{\text{init}} = 100, \rho = 0.1, \epsilon_\rho = 0.04, \mu = 40.0, \sigma_\mu = 0.0, \beta = 0.1, \sigma_\beta = 0.0$
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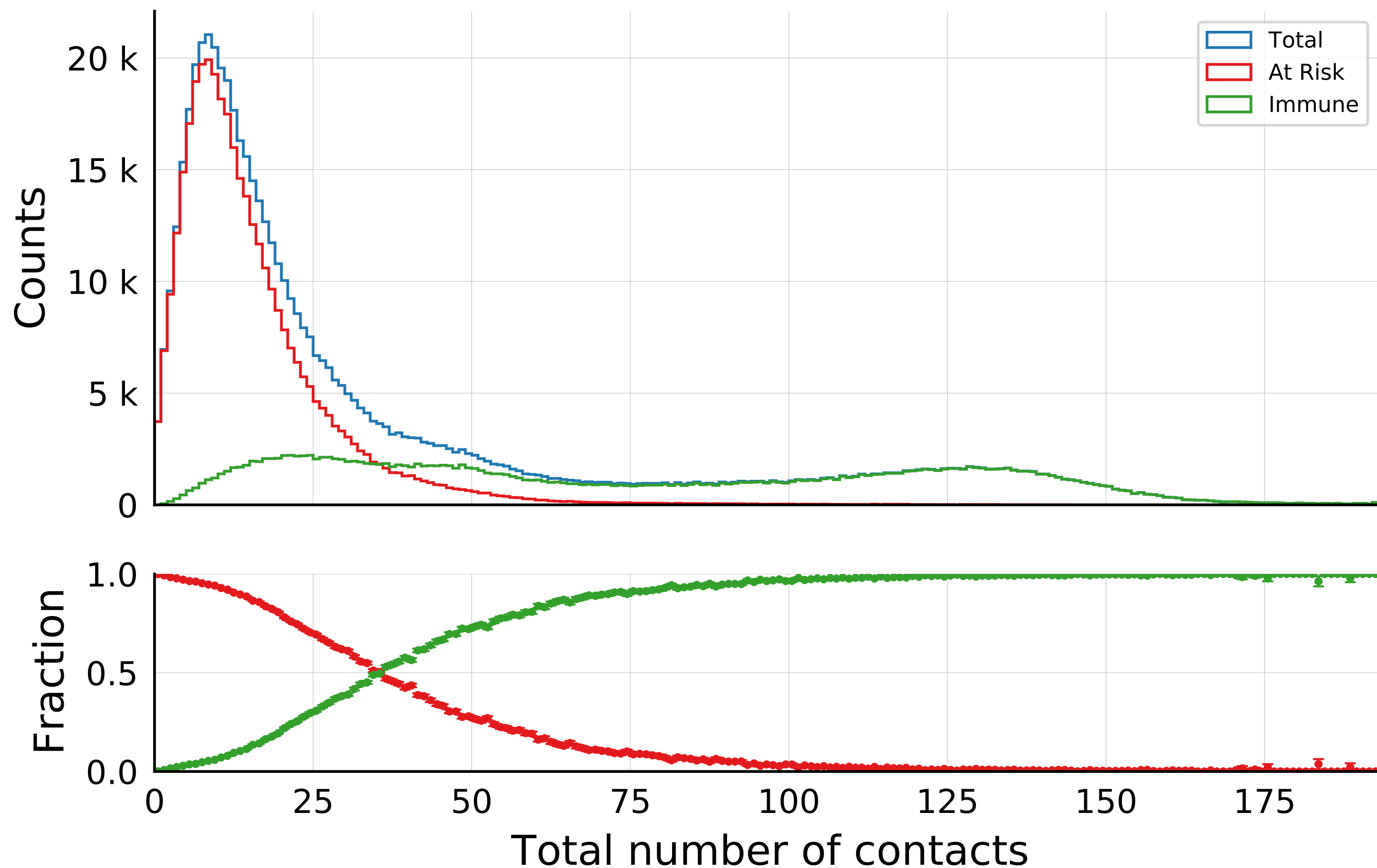
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.1$, $\sigma_\beta = 0.5$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.1$, $\sigma_\beta = 1.0$
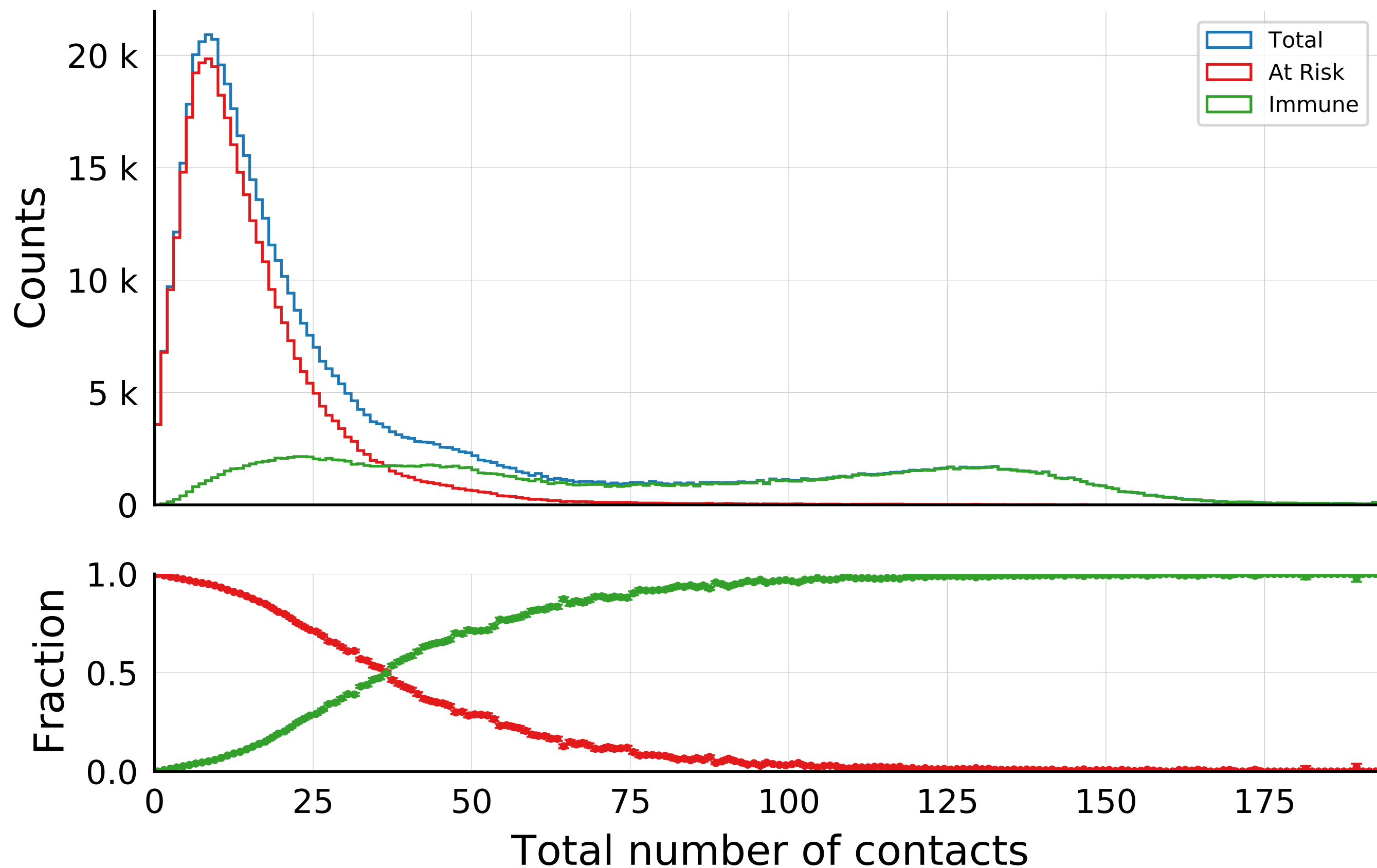$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 0.0$
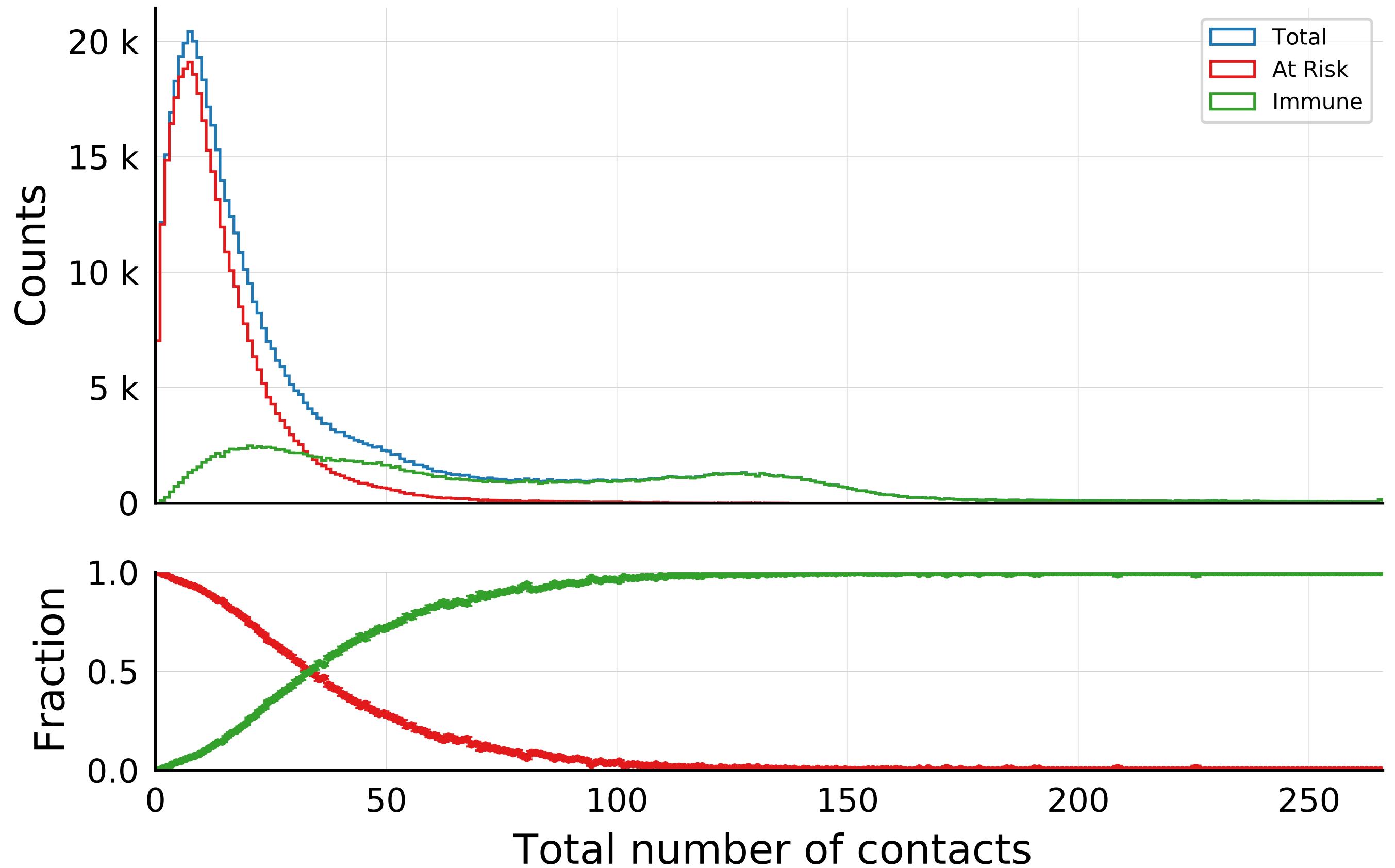$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 1.0$
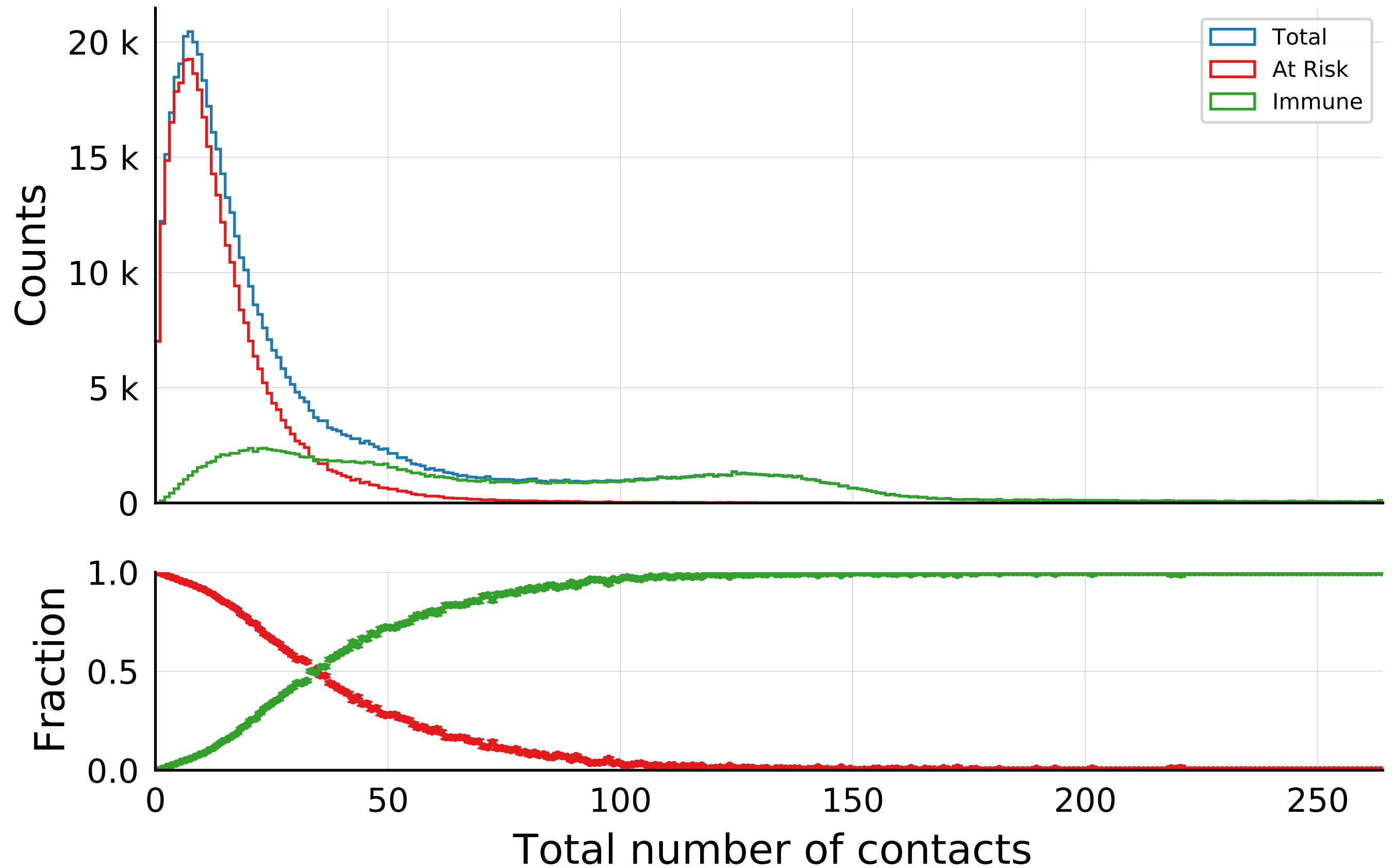$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_{\rho} = 0.04$, $\mu = 40.0$, $\sigma_{\mu} = 0.5$, $\beta = 0.01$, $\sigma_{\beta} = 0.0$
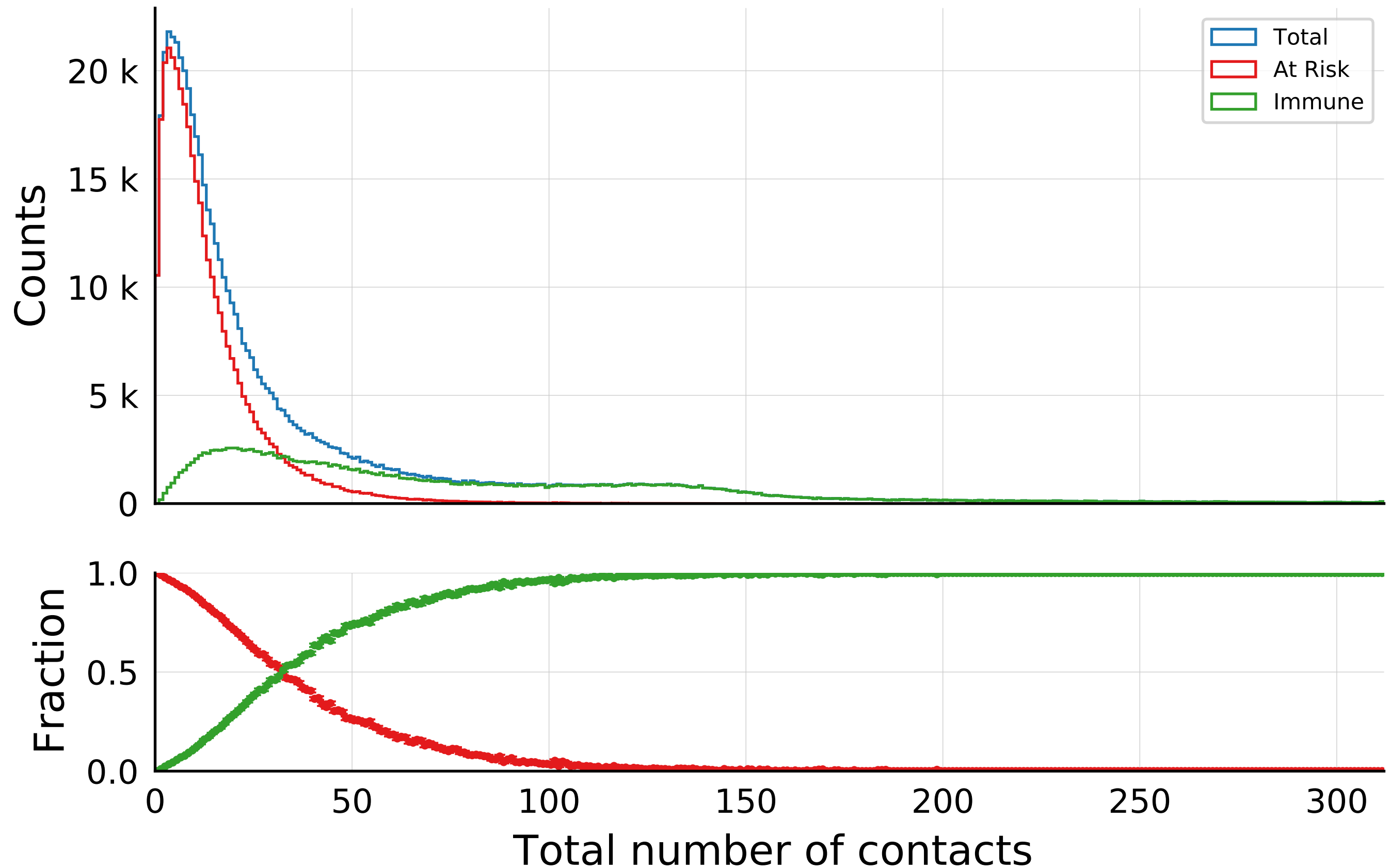$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 1.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 0.0$
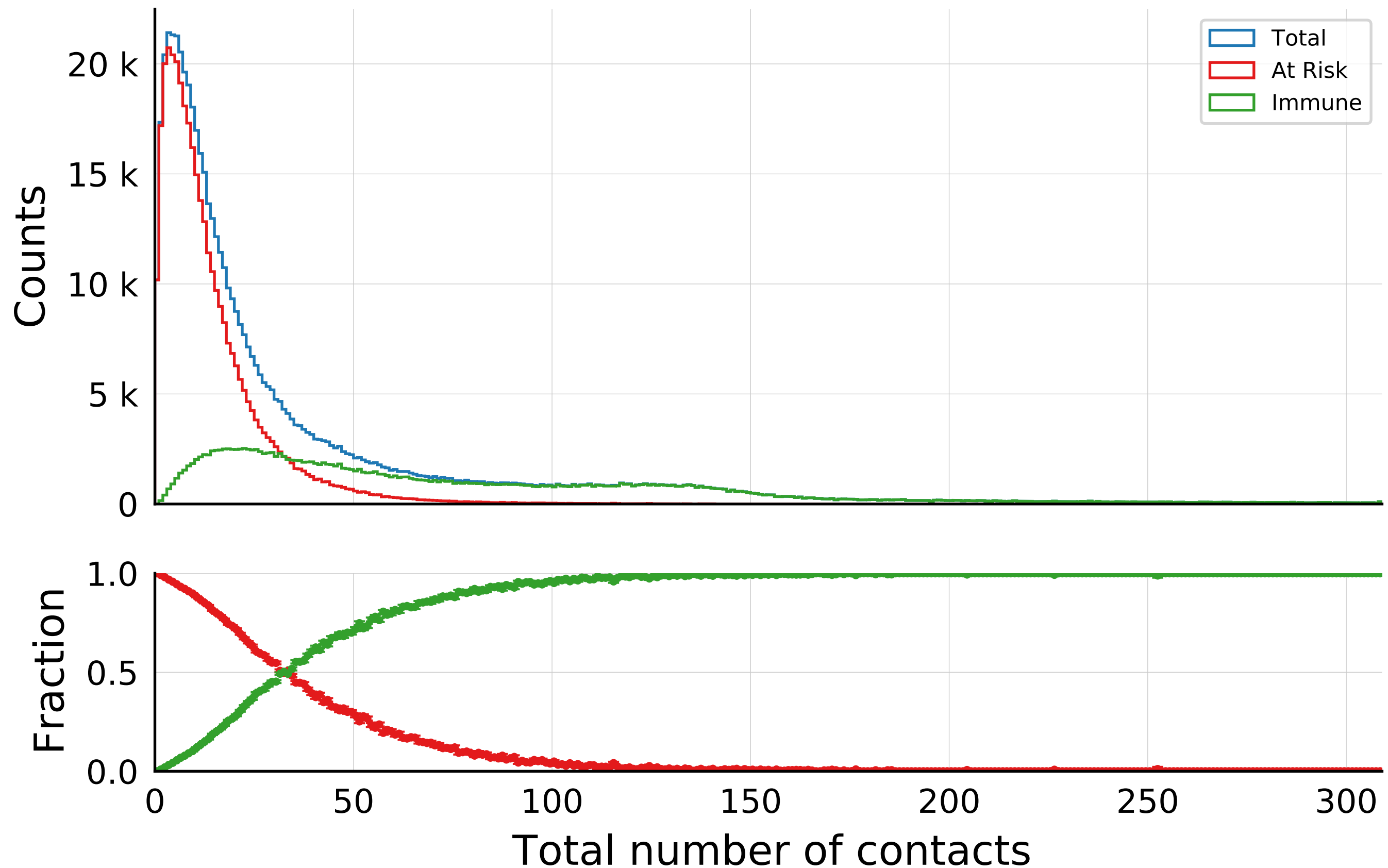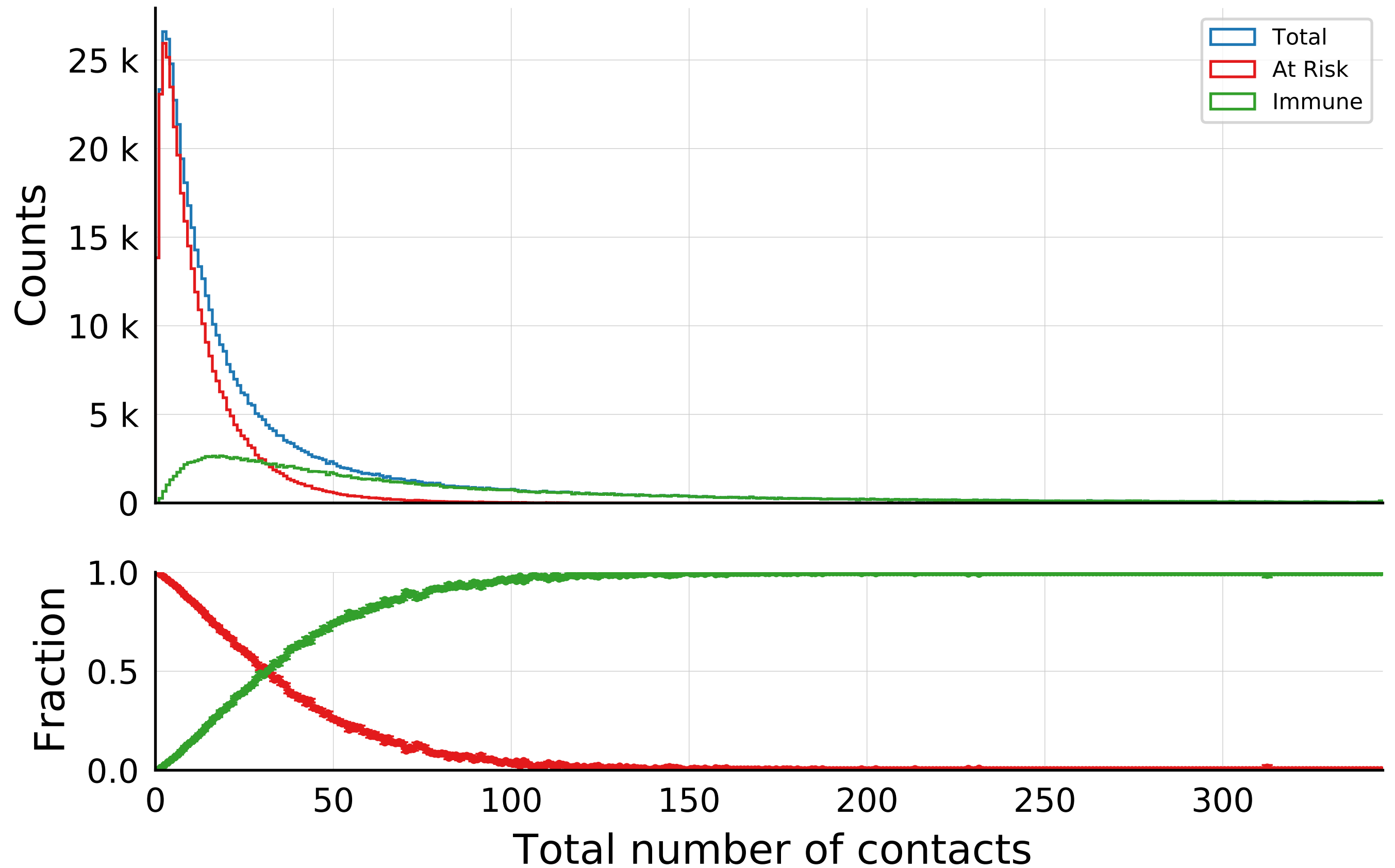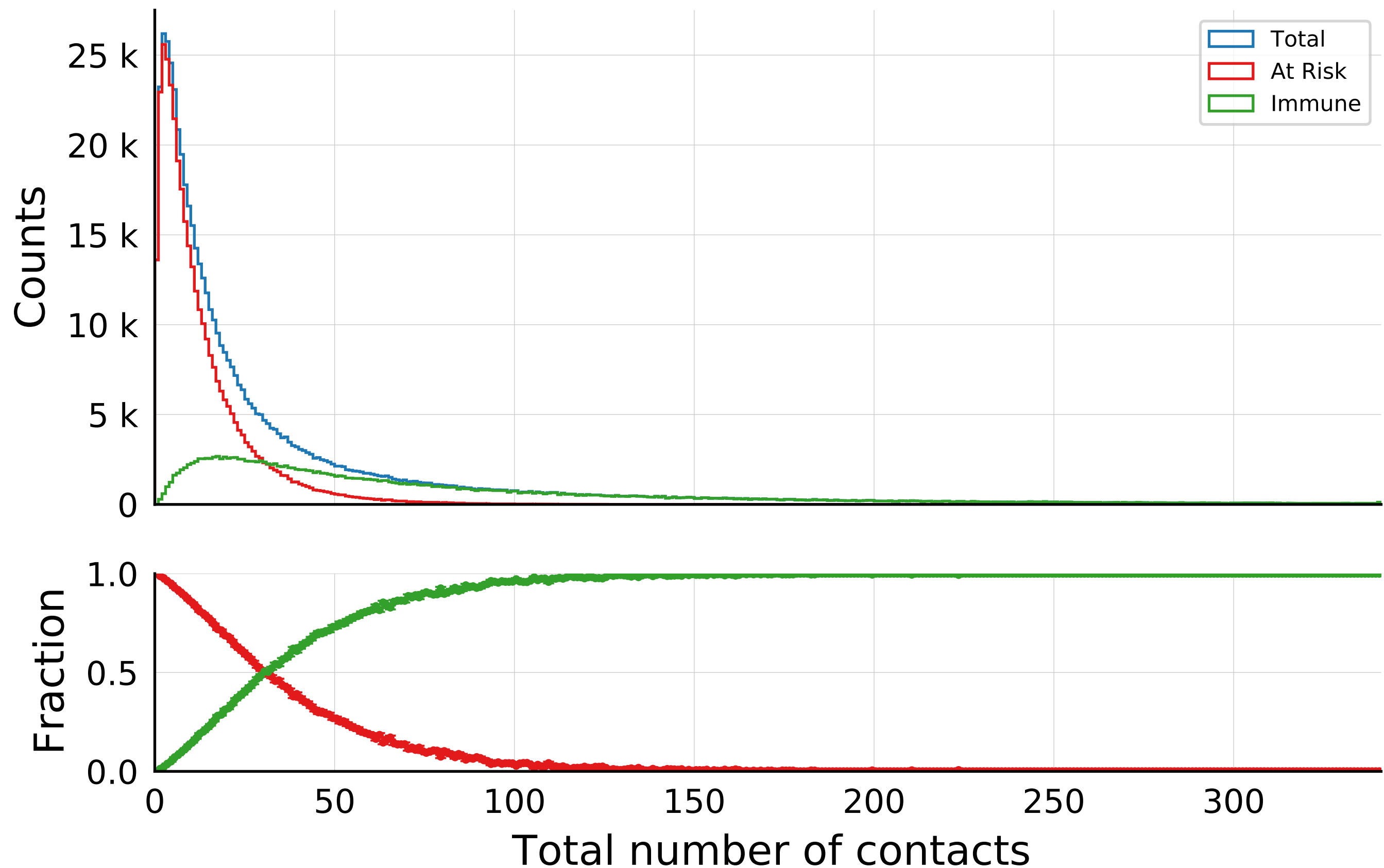$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.1,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.75,\ \beta = 0.01,\ \sigma_\beta = 1.0$
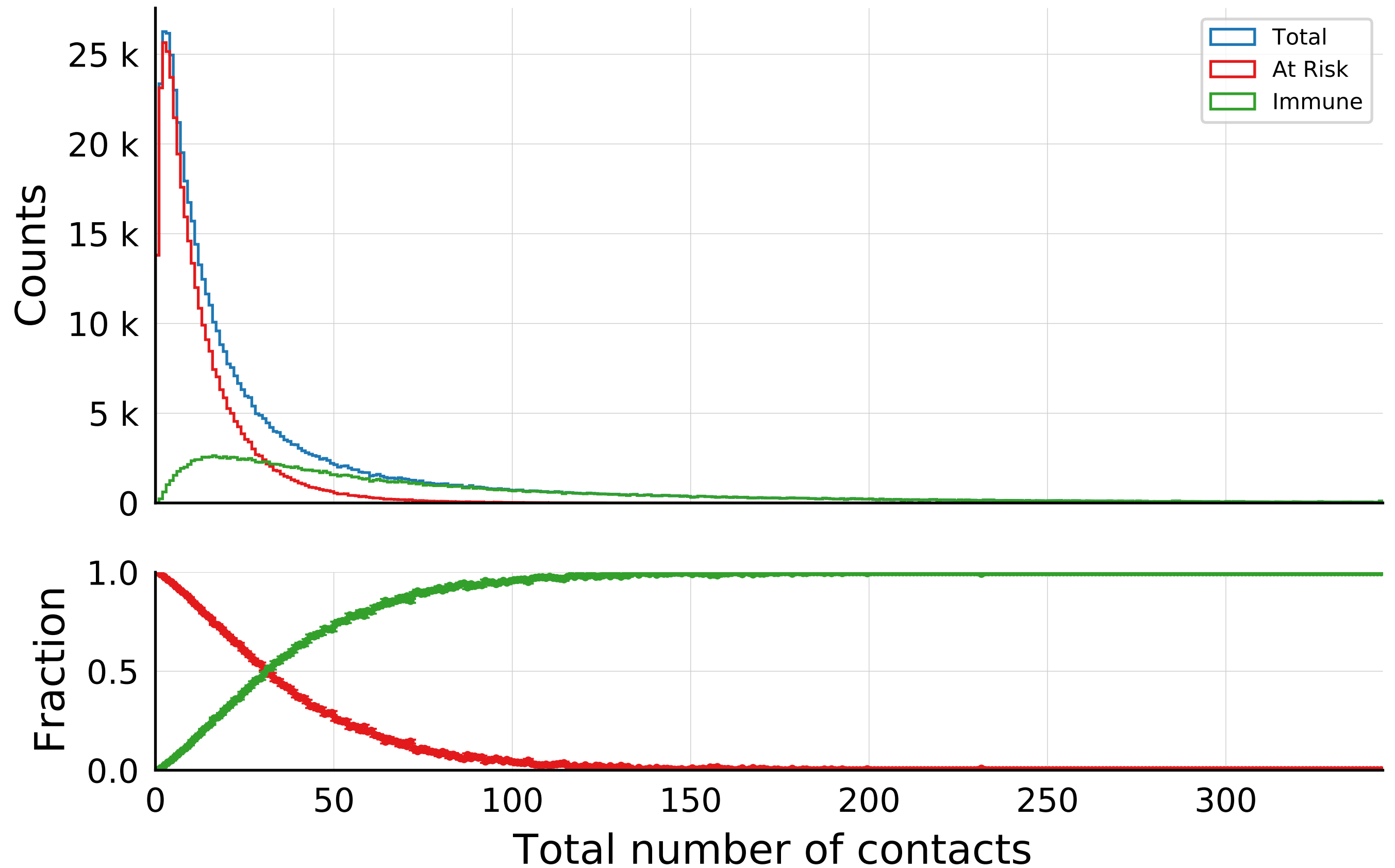$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$
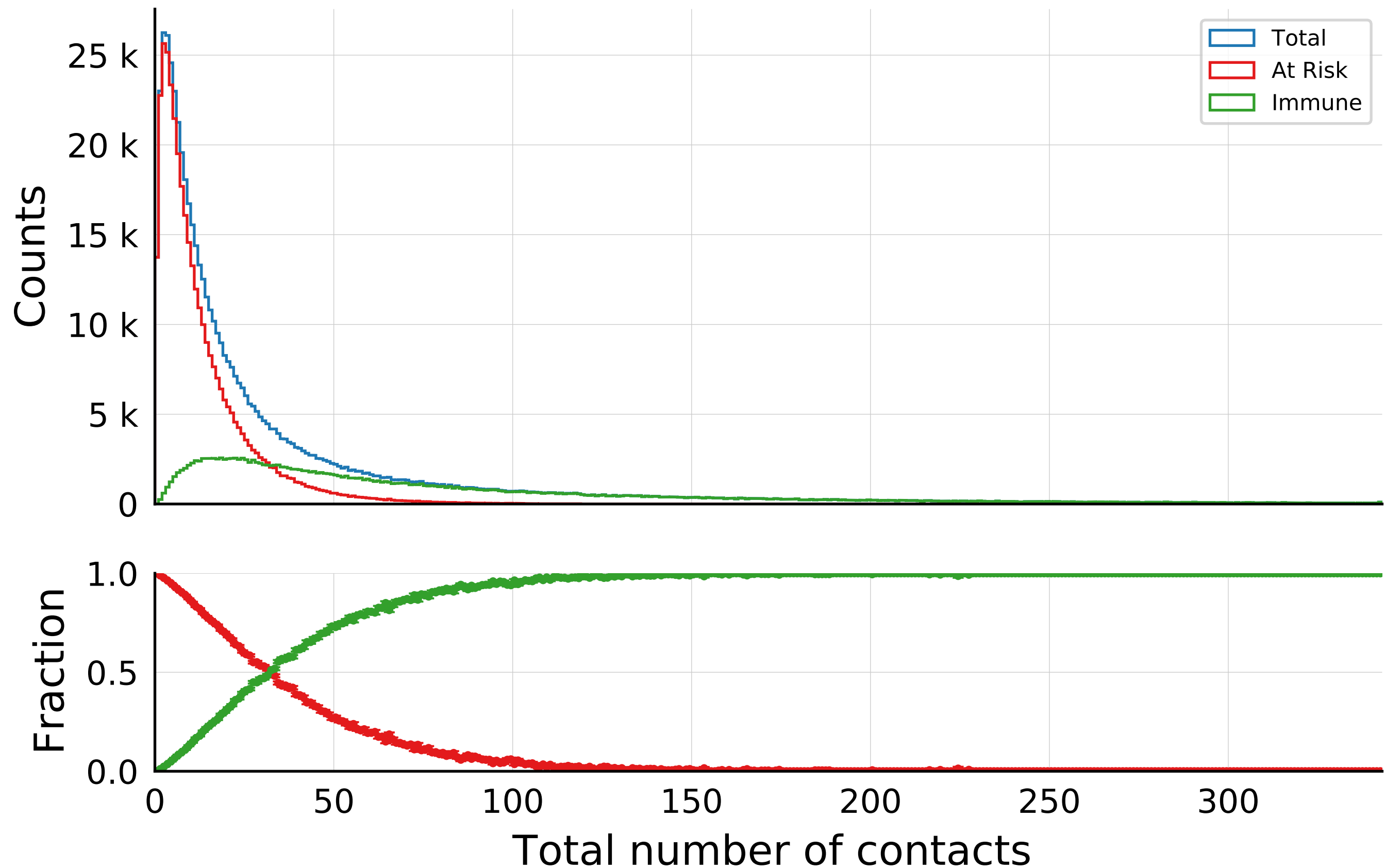$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

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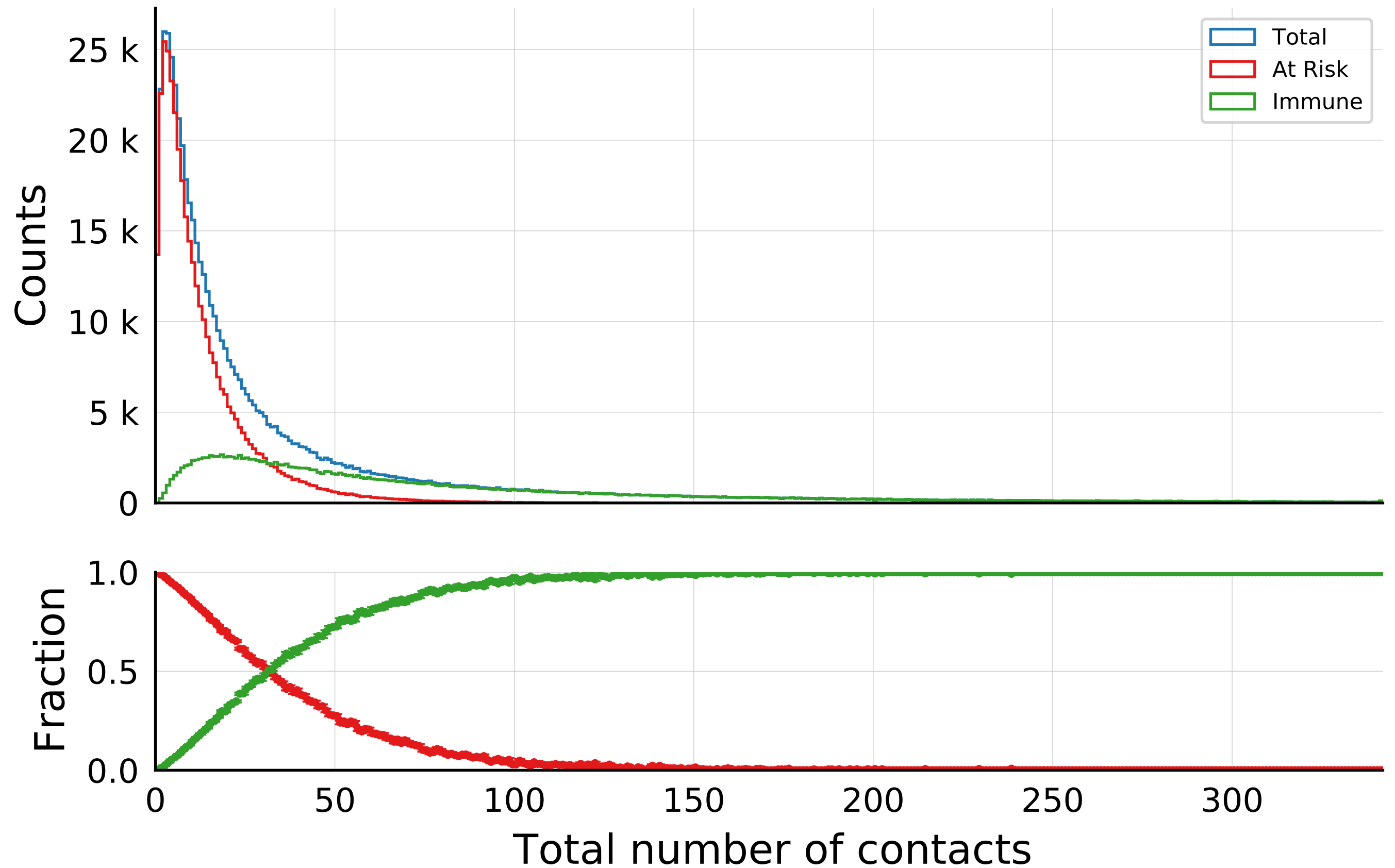$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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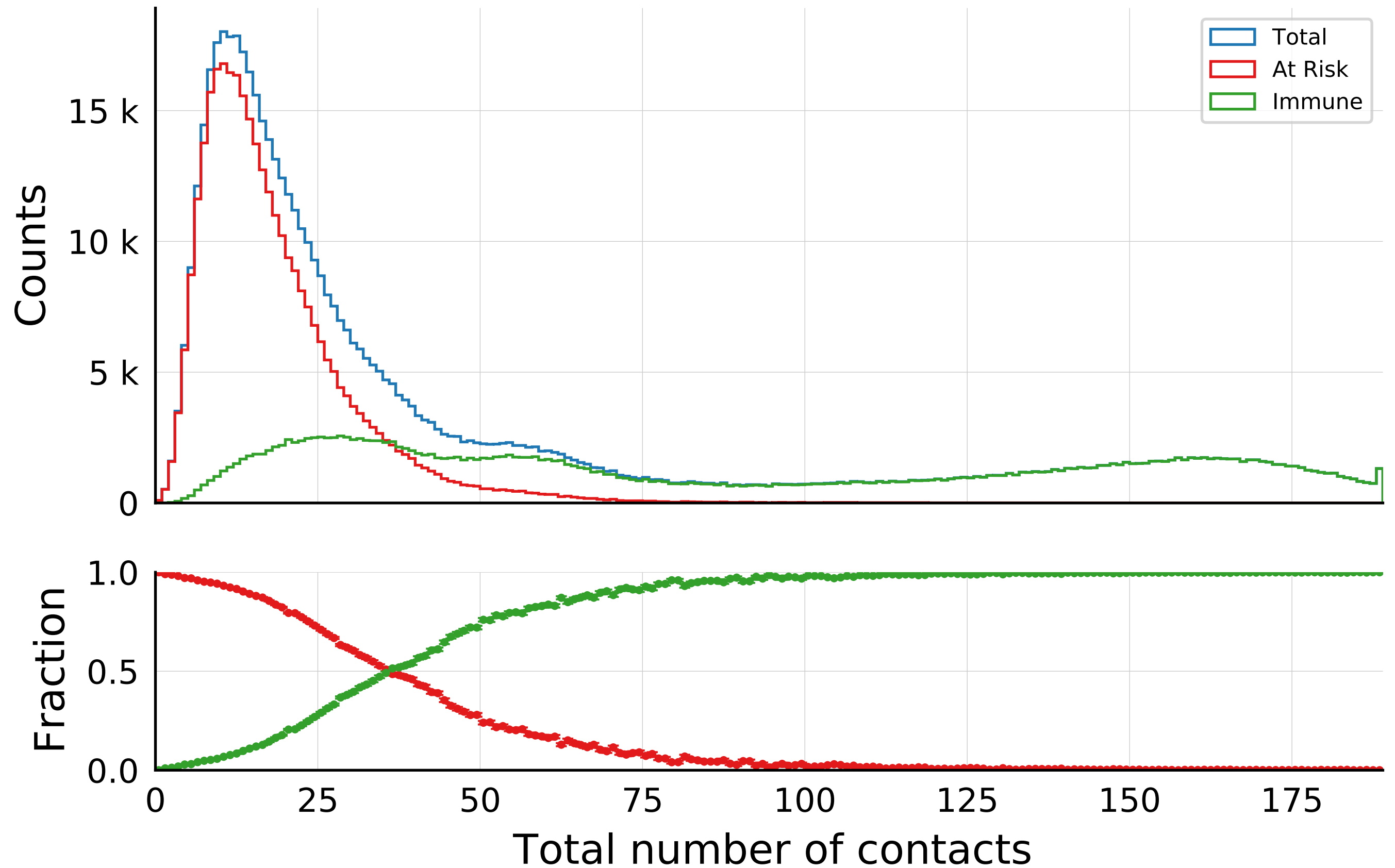$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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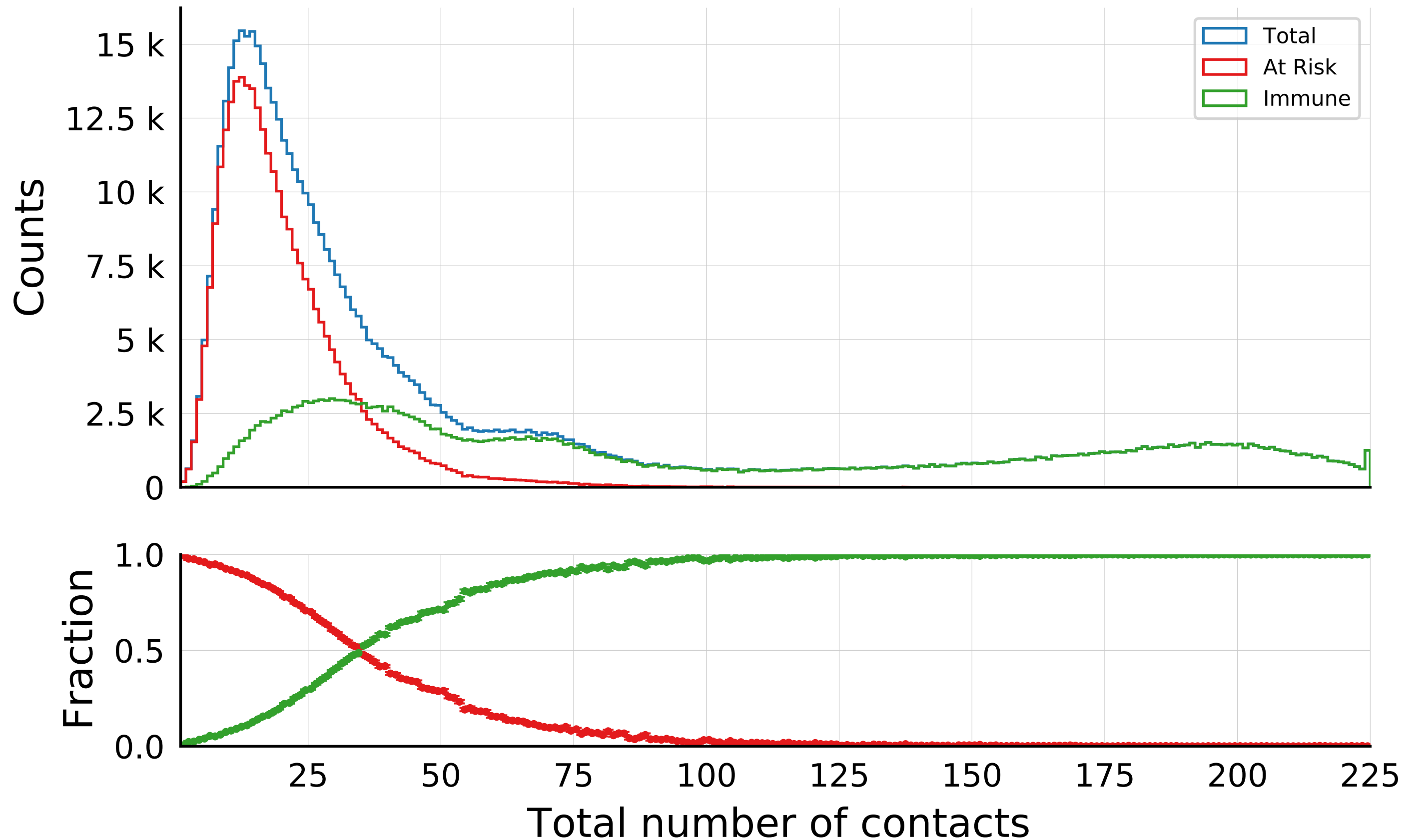$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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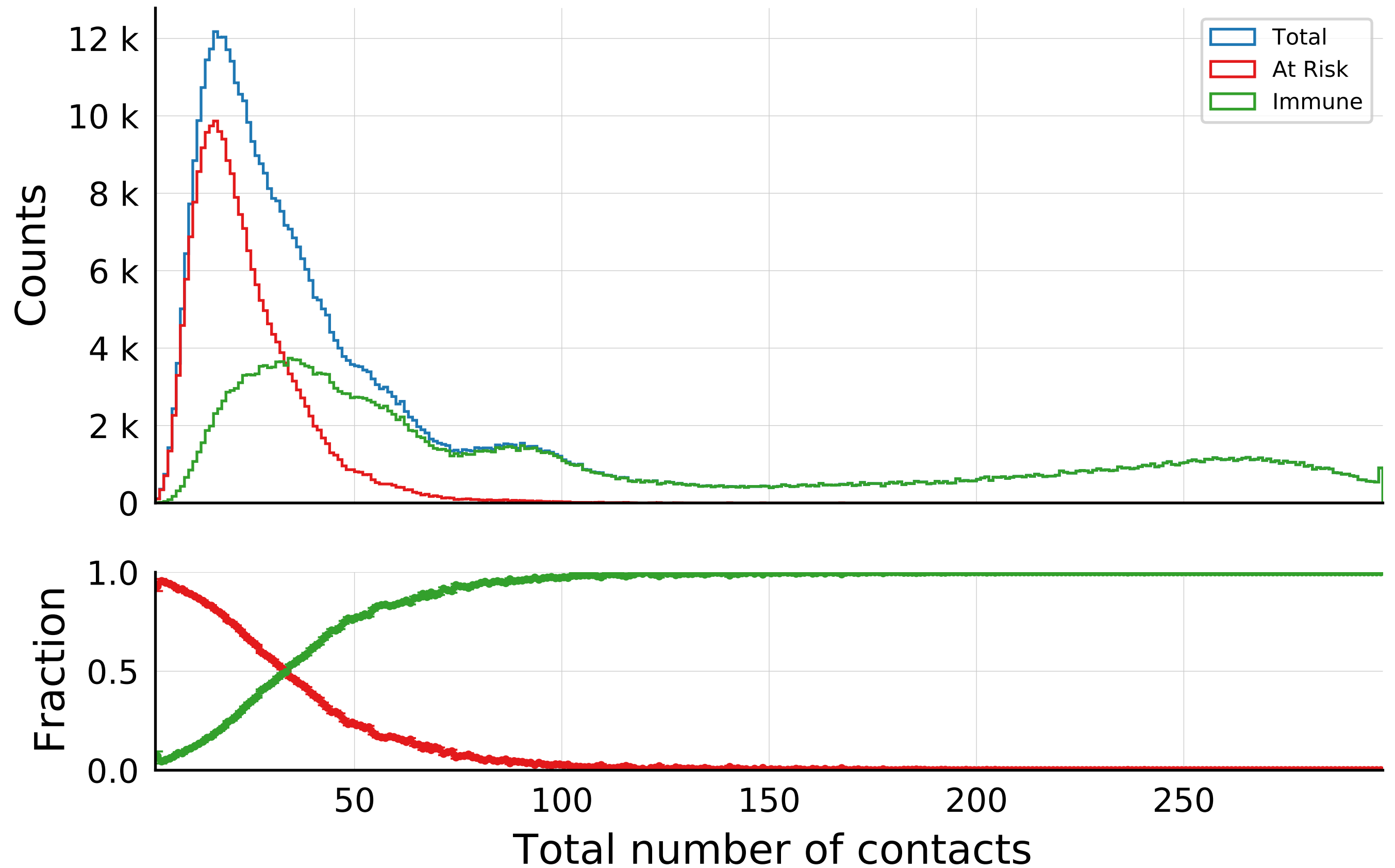$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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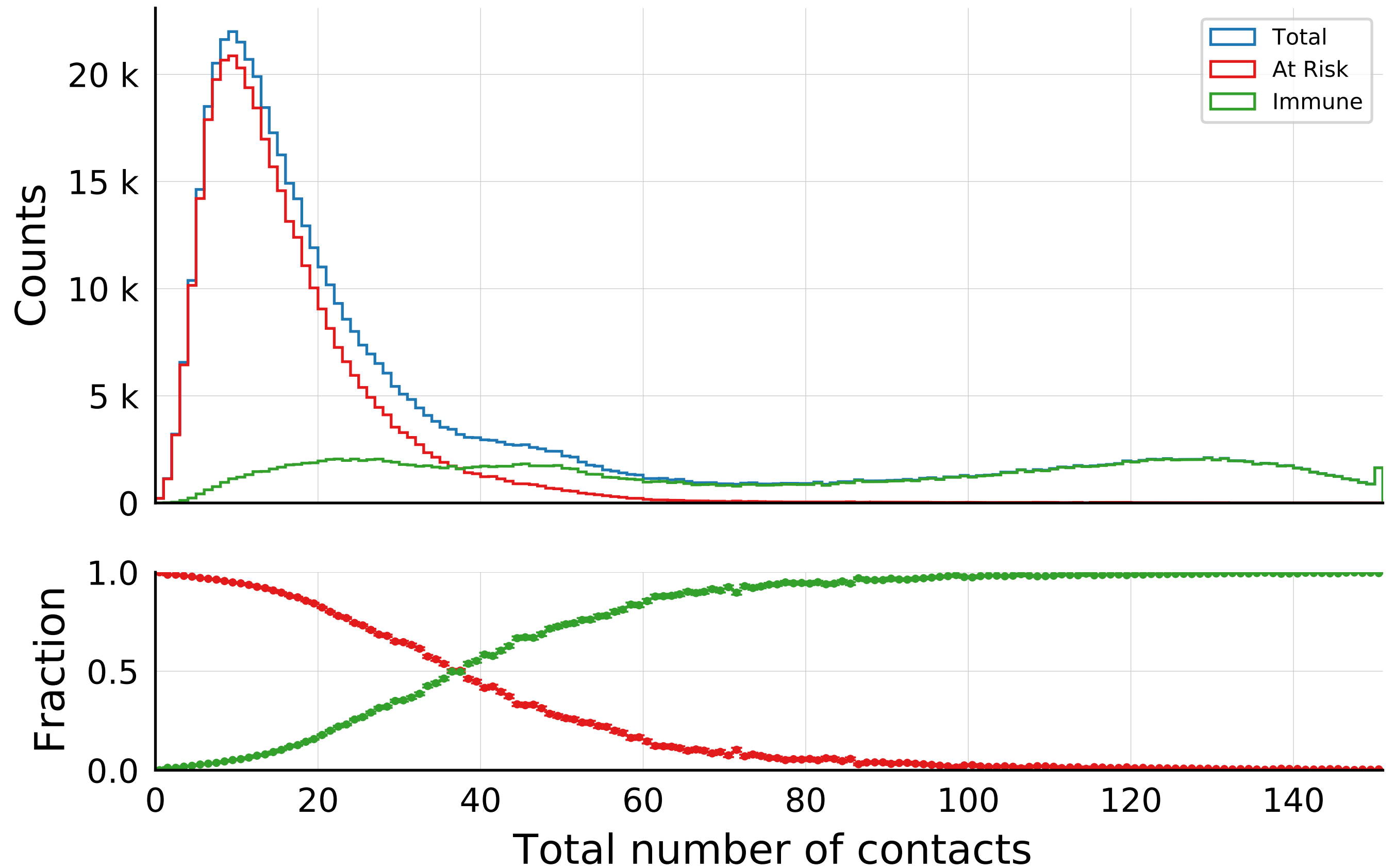$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

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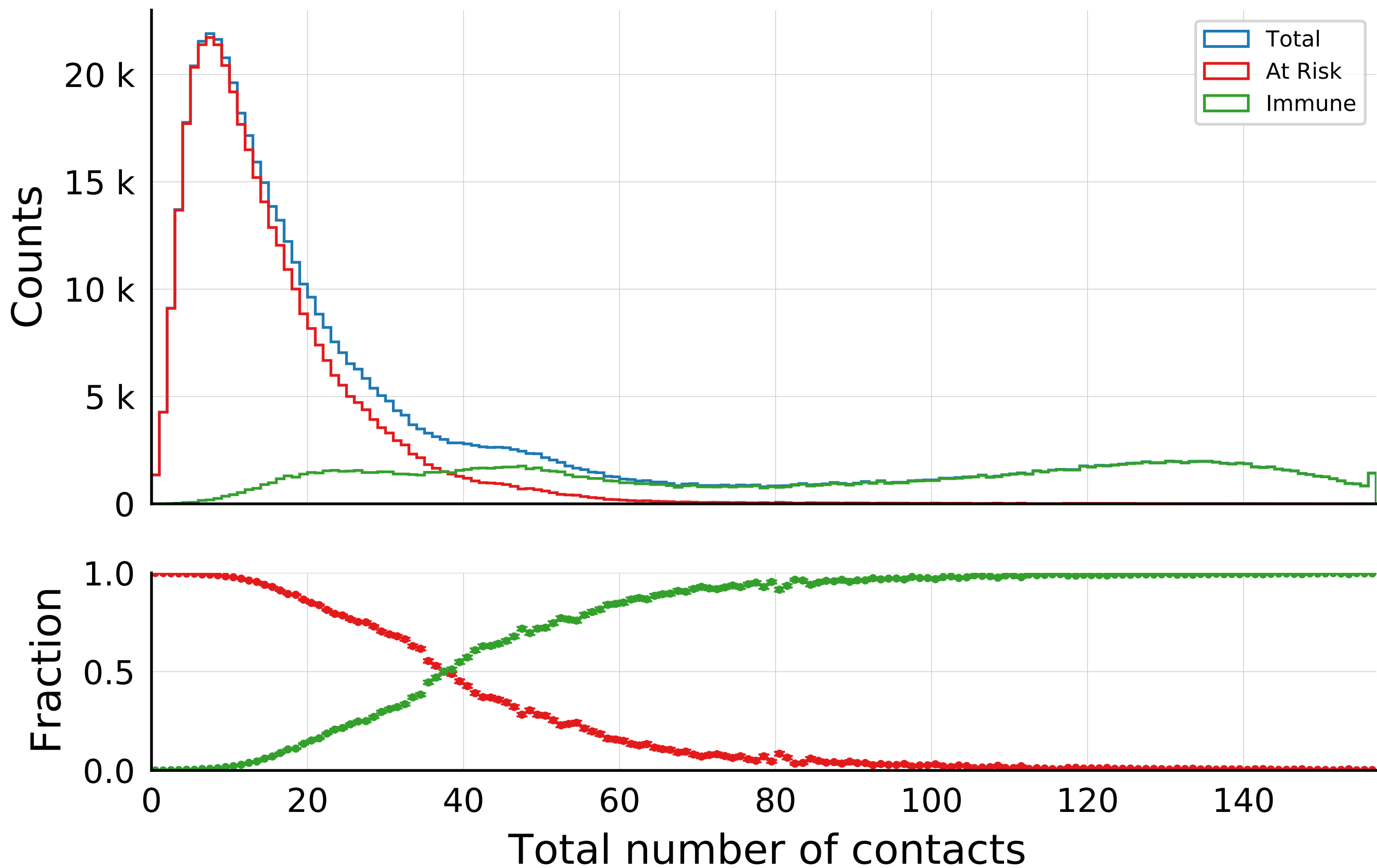$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.05$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
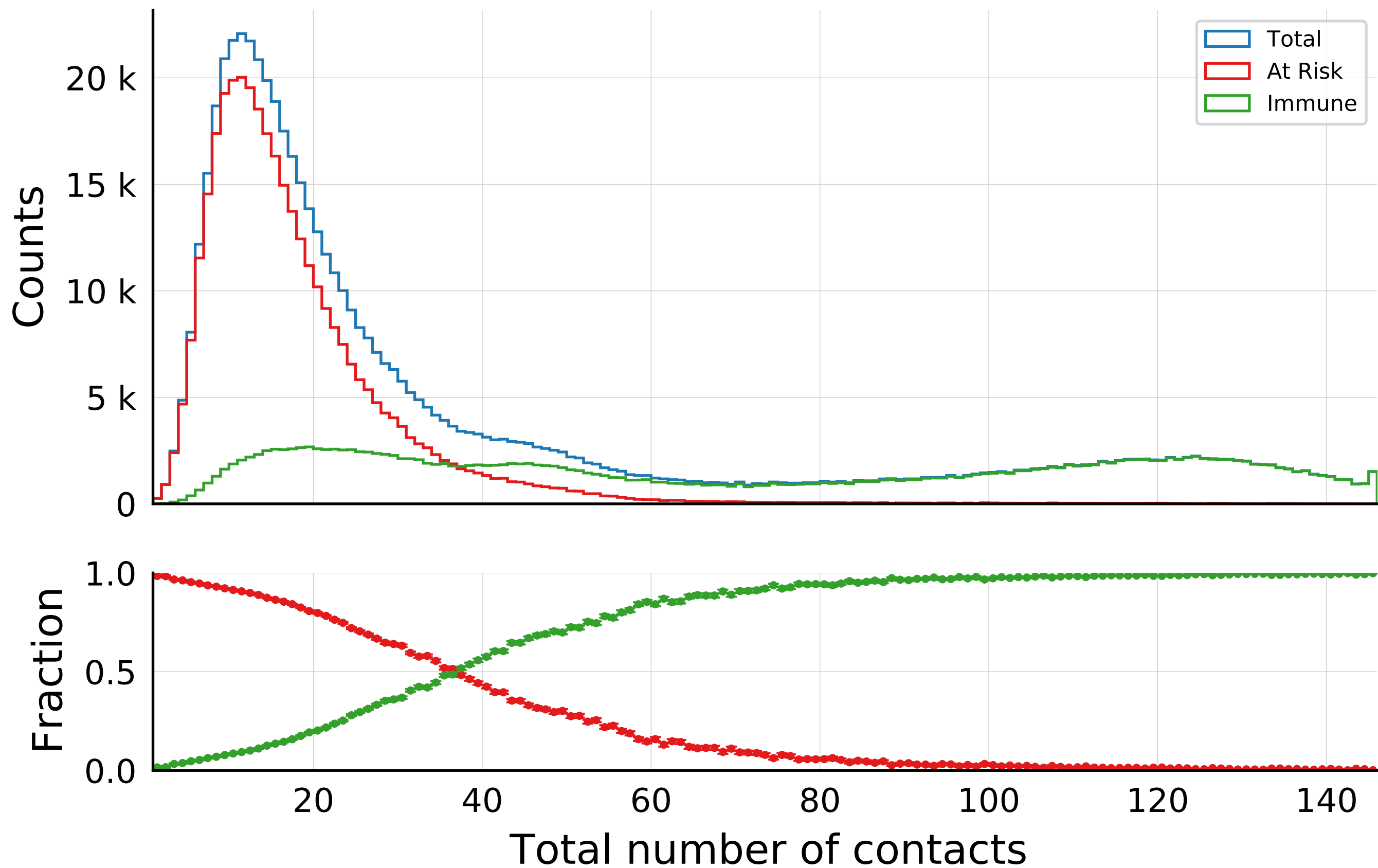$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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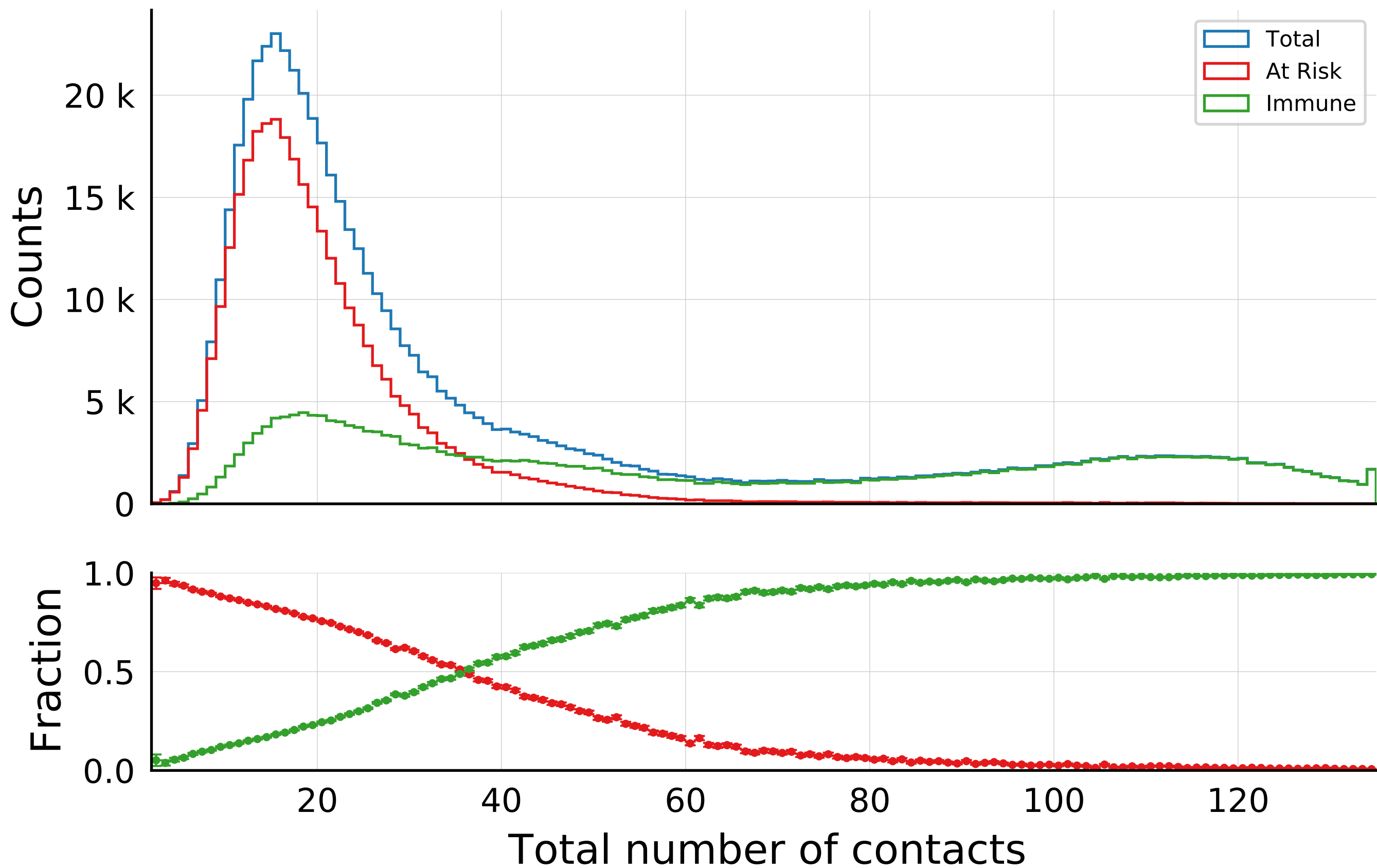$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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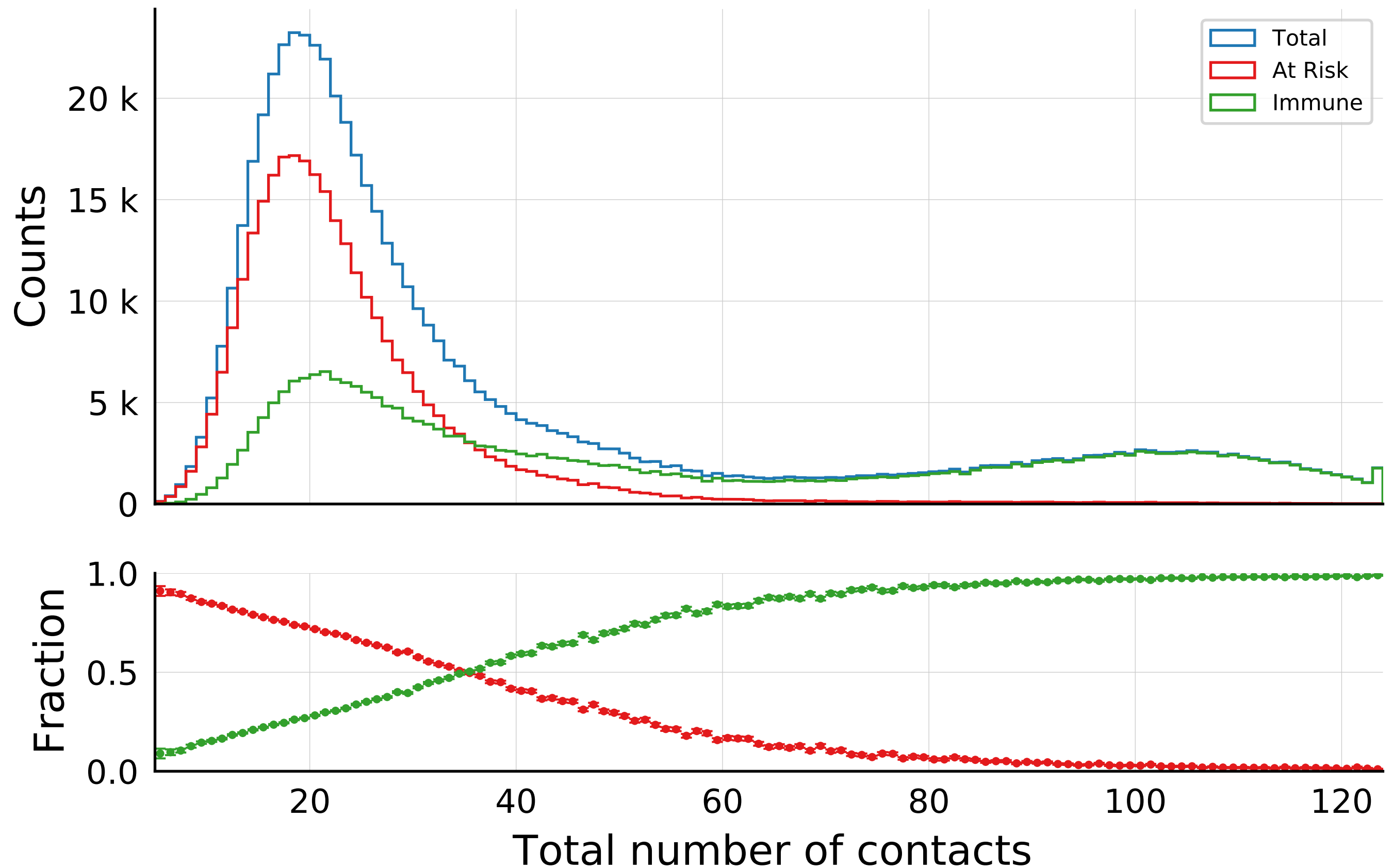$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{tot} = 580K$, $N_{init} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.3$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
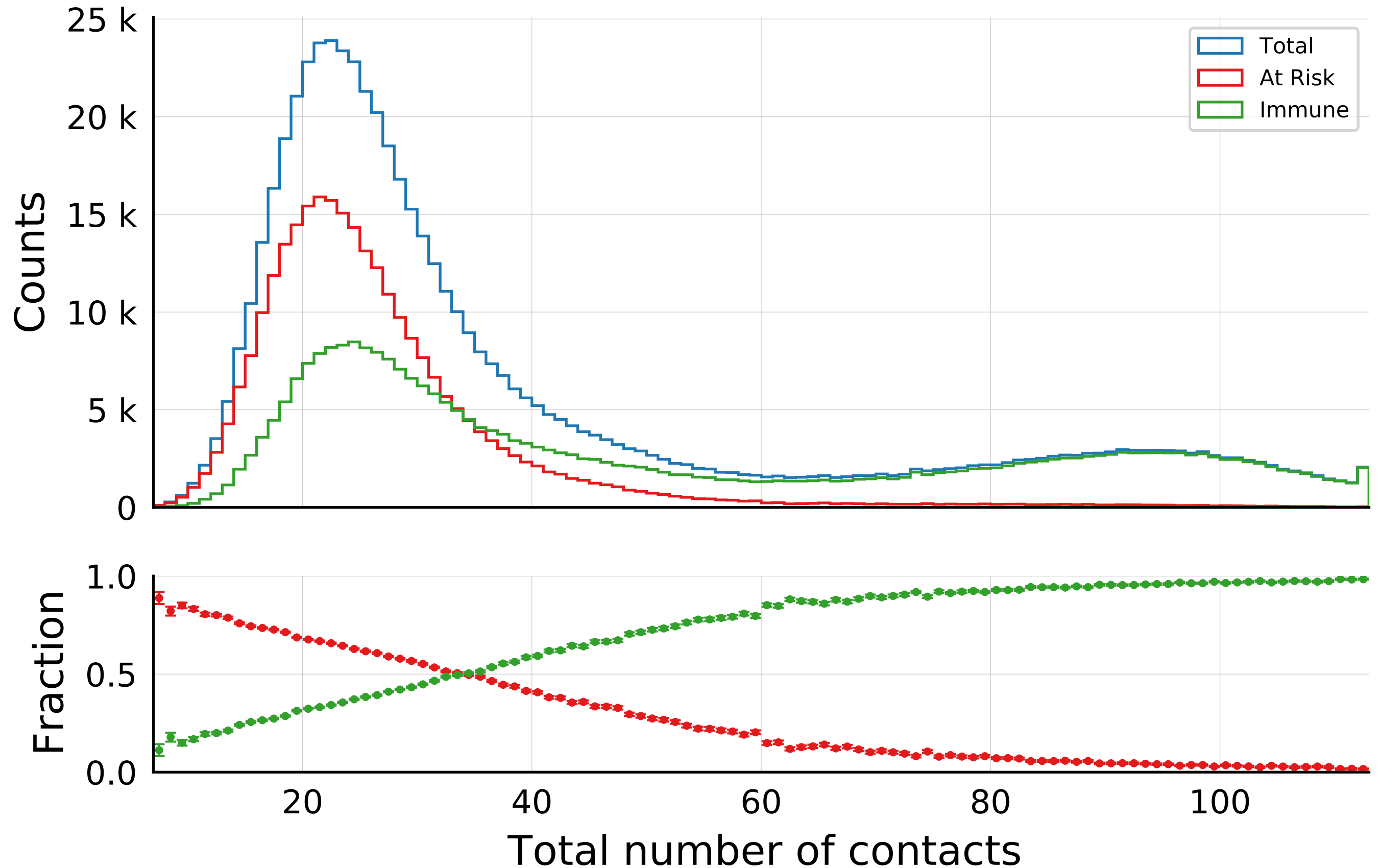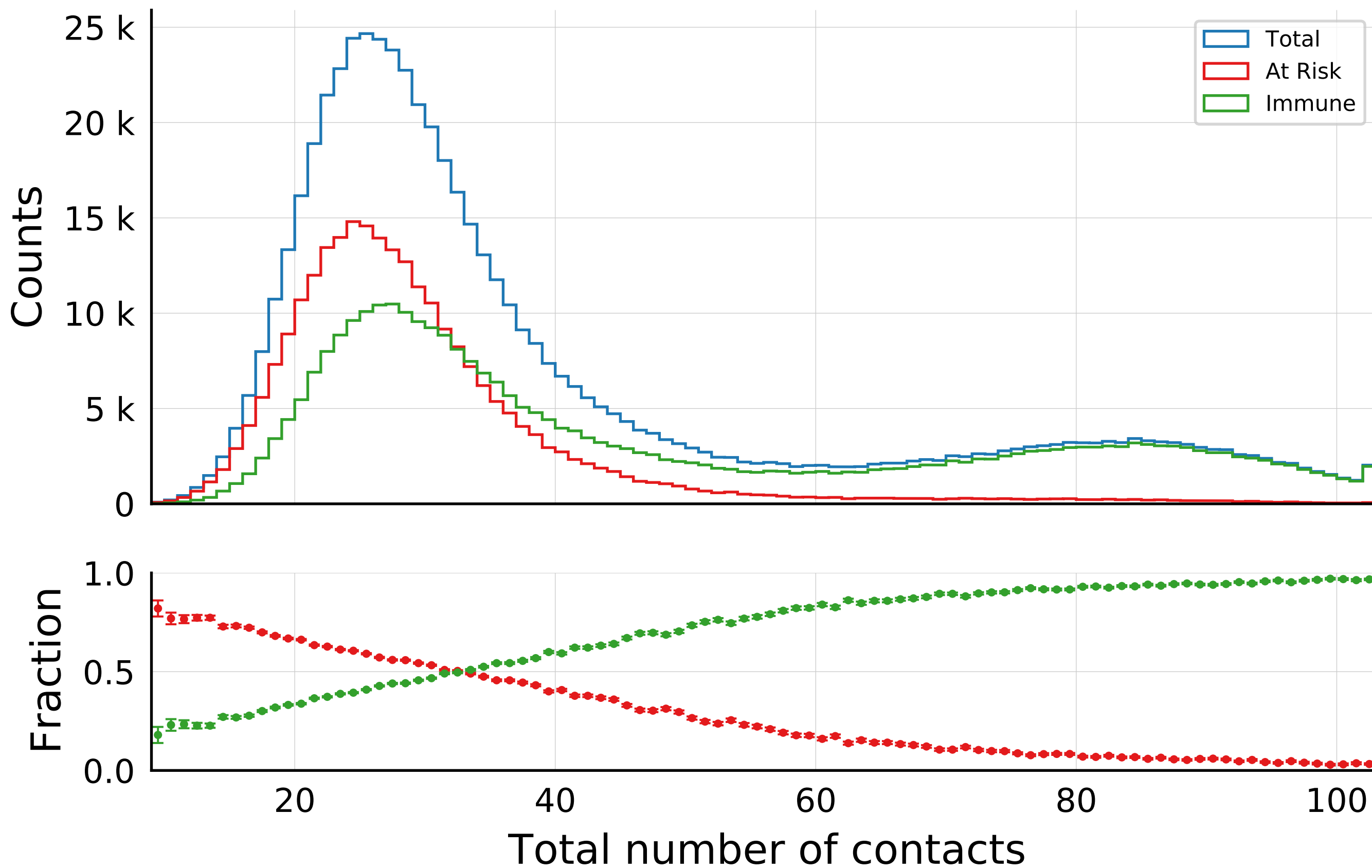$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.5$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
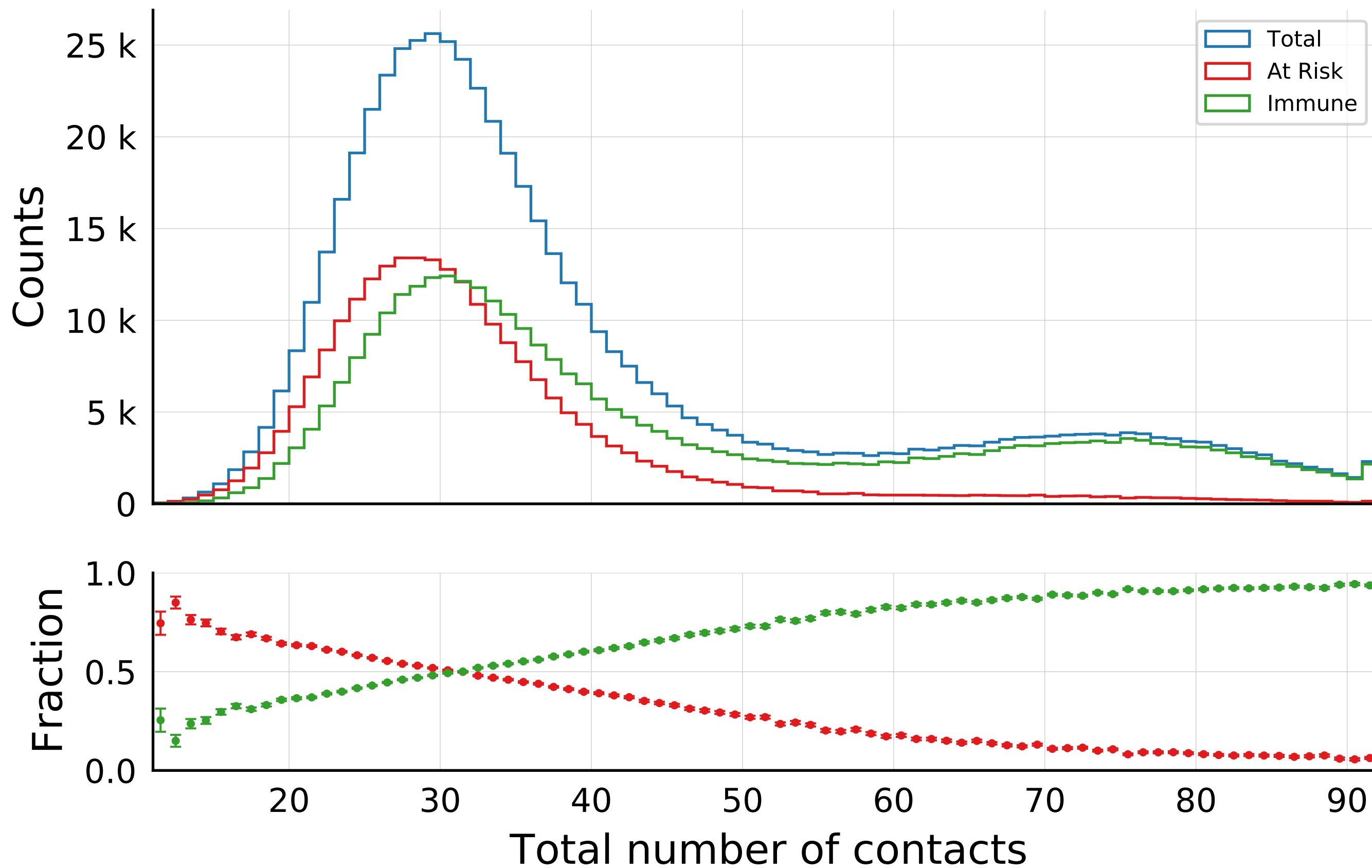$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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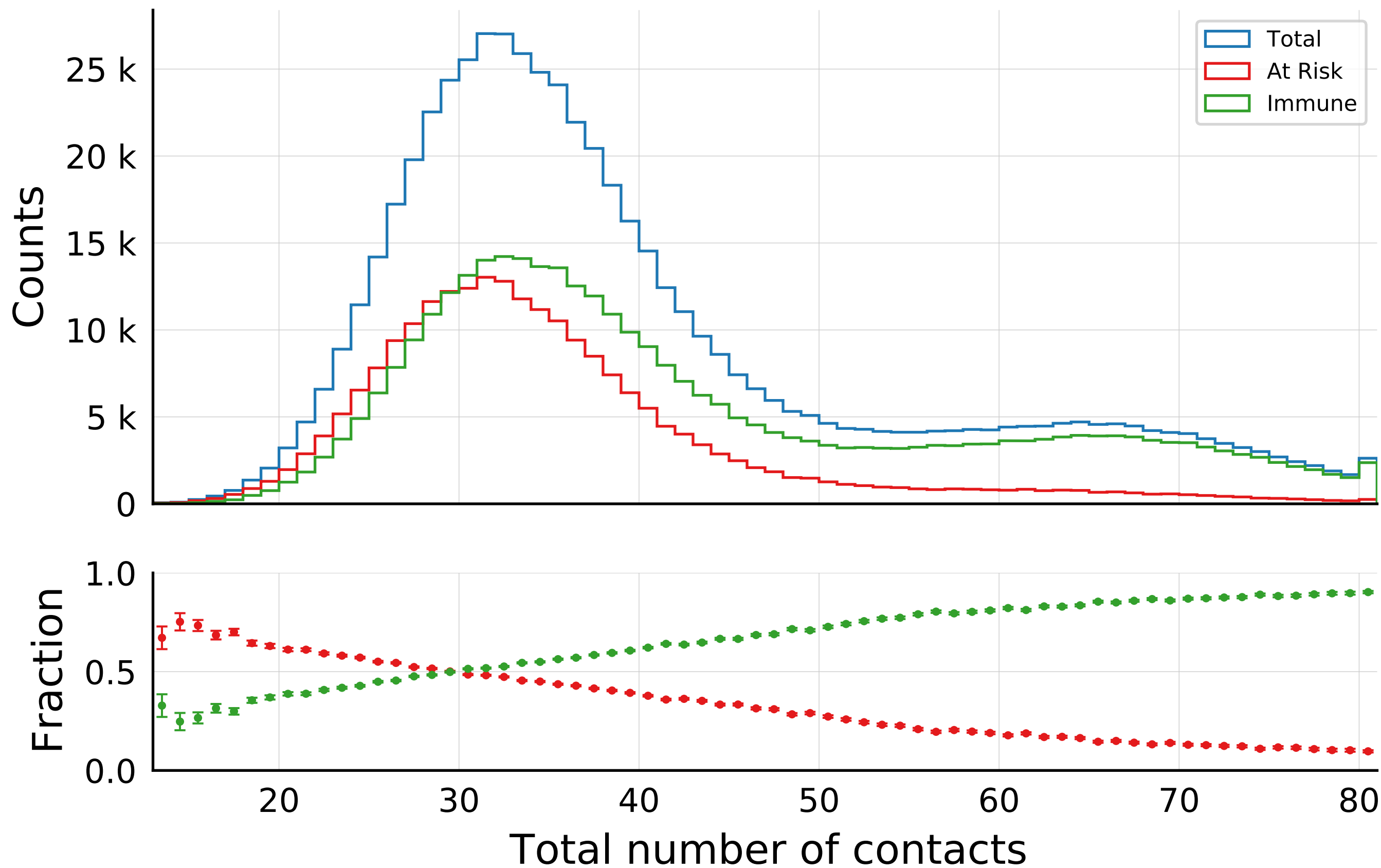$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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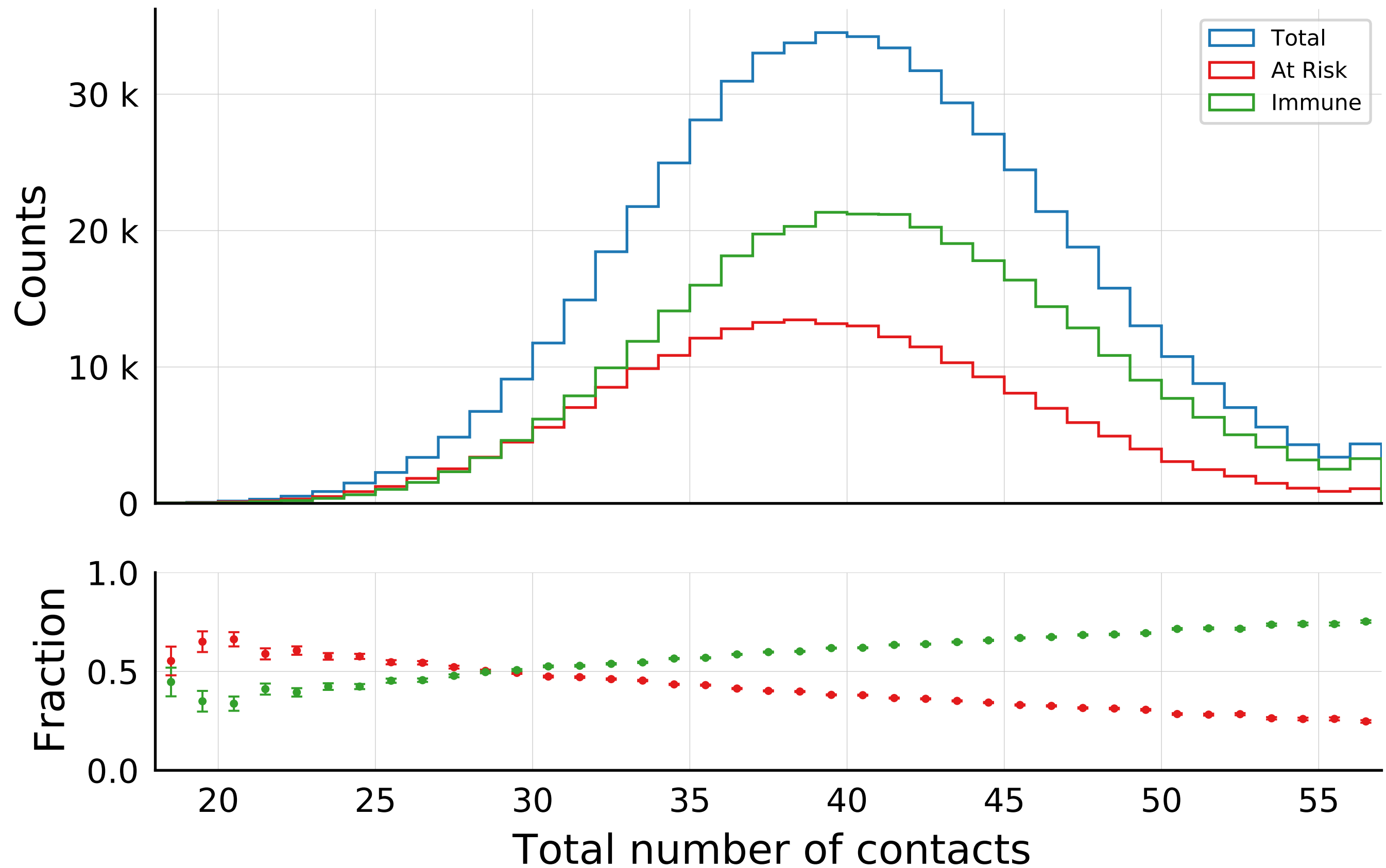$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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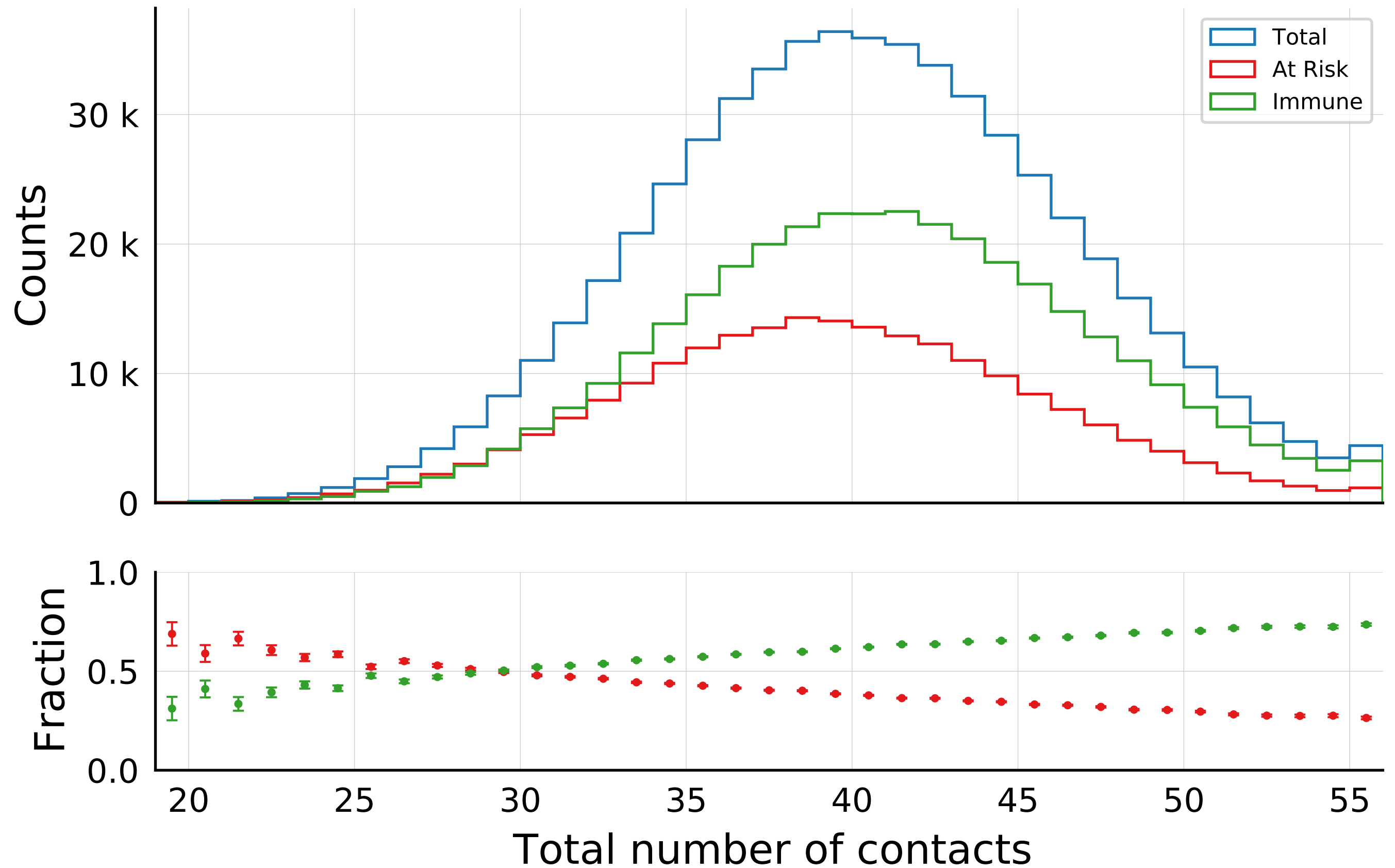$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

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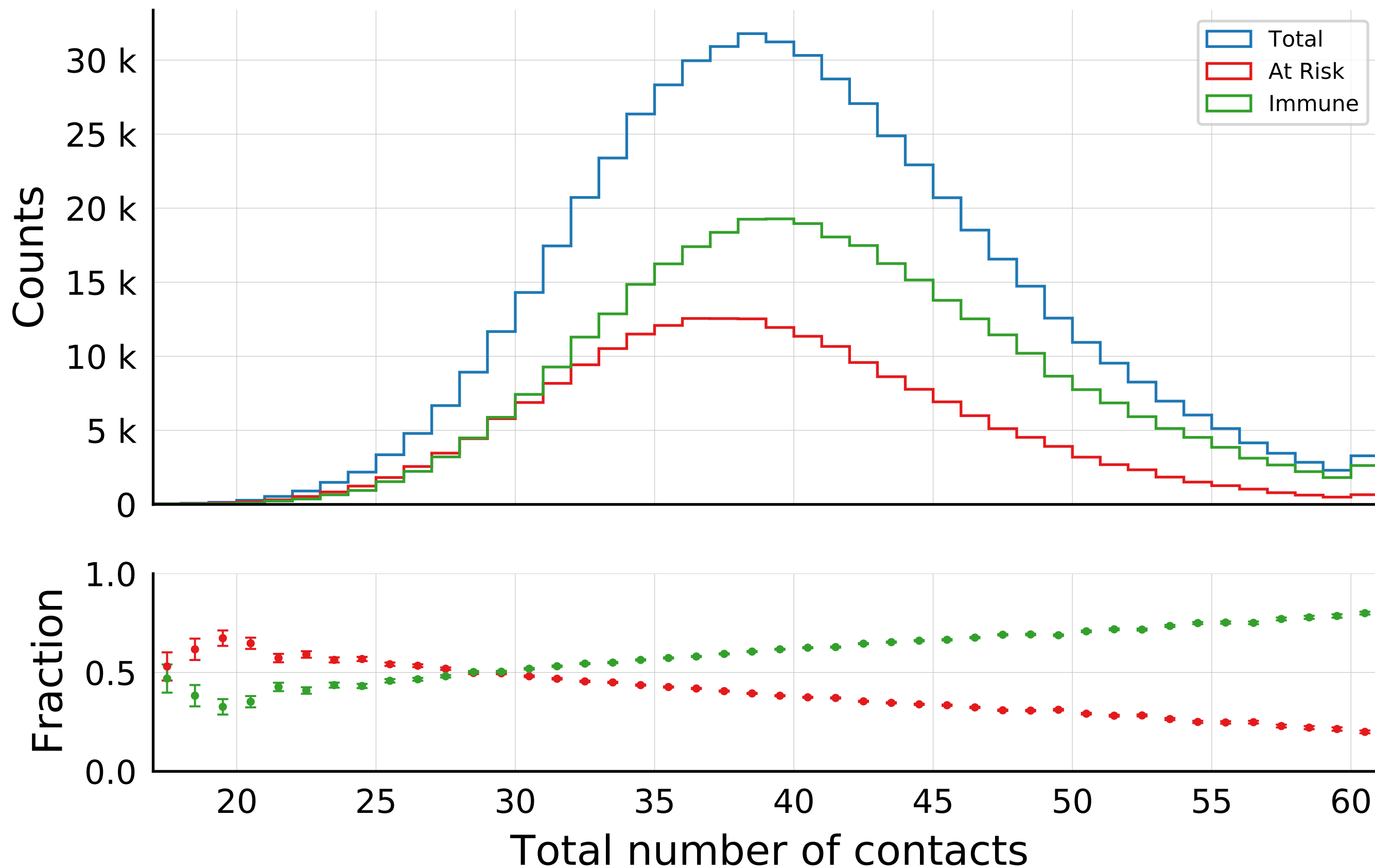$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.9$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
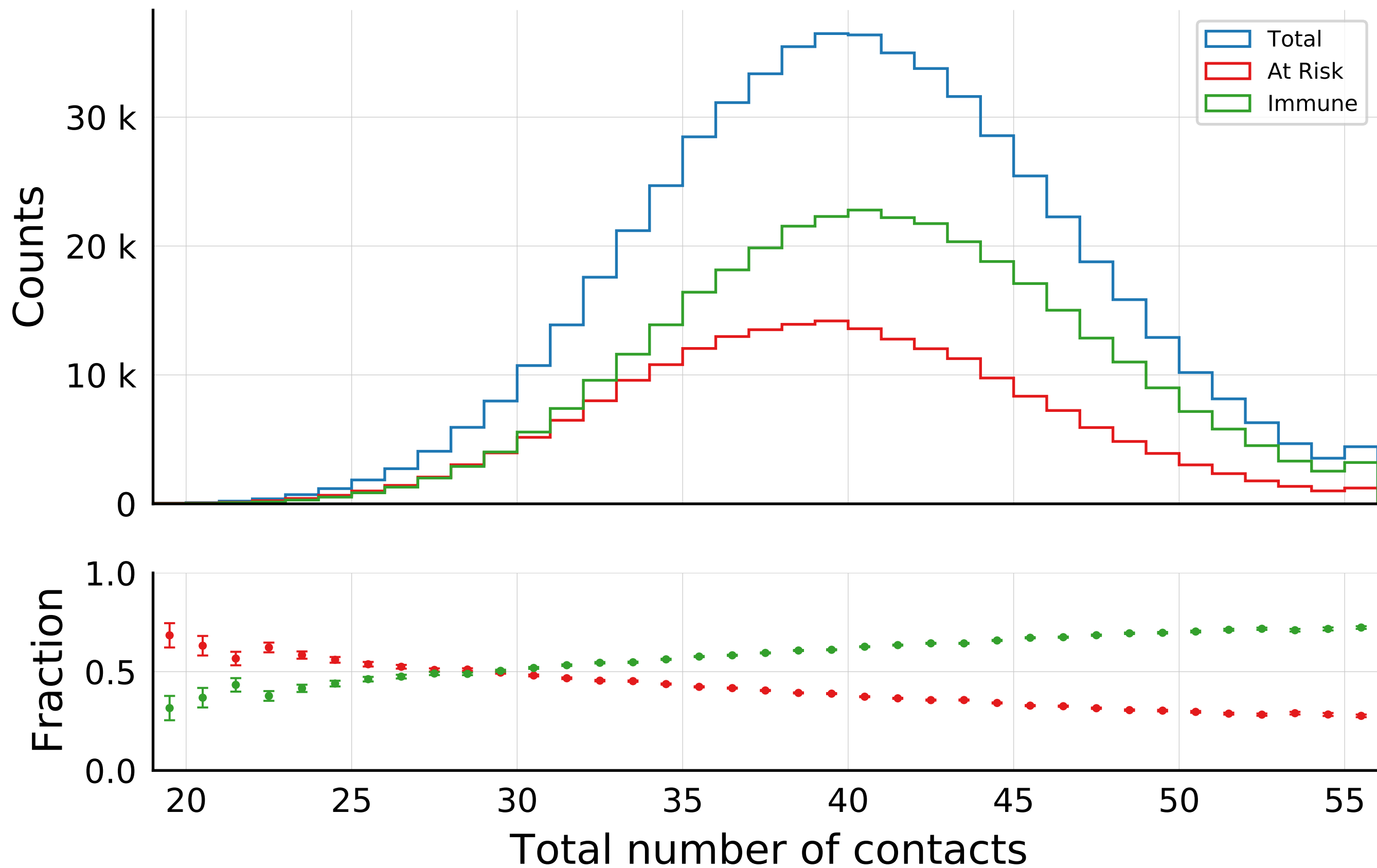$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 1.0$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
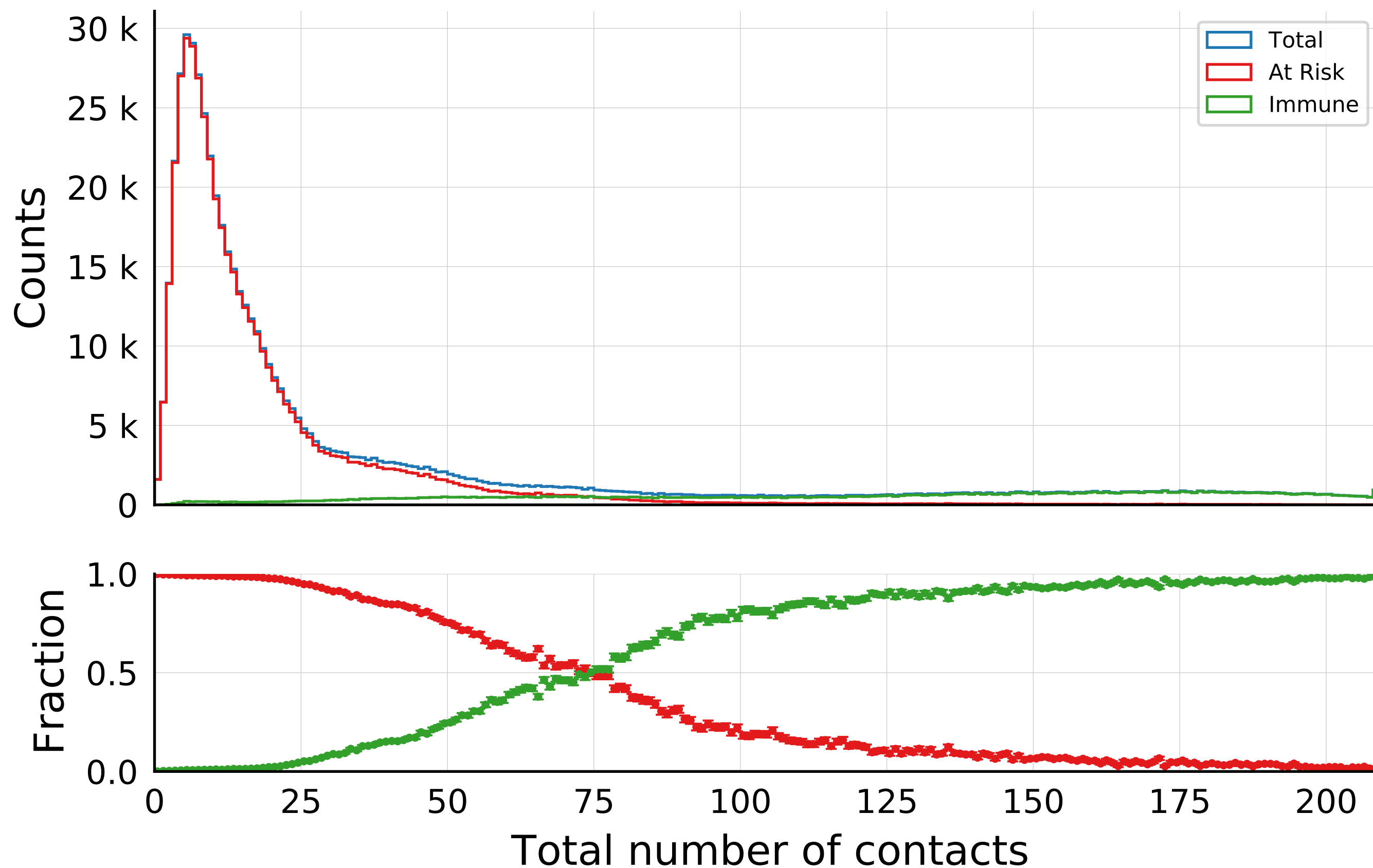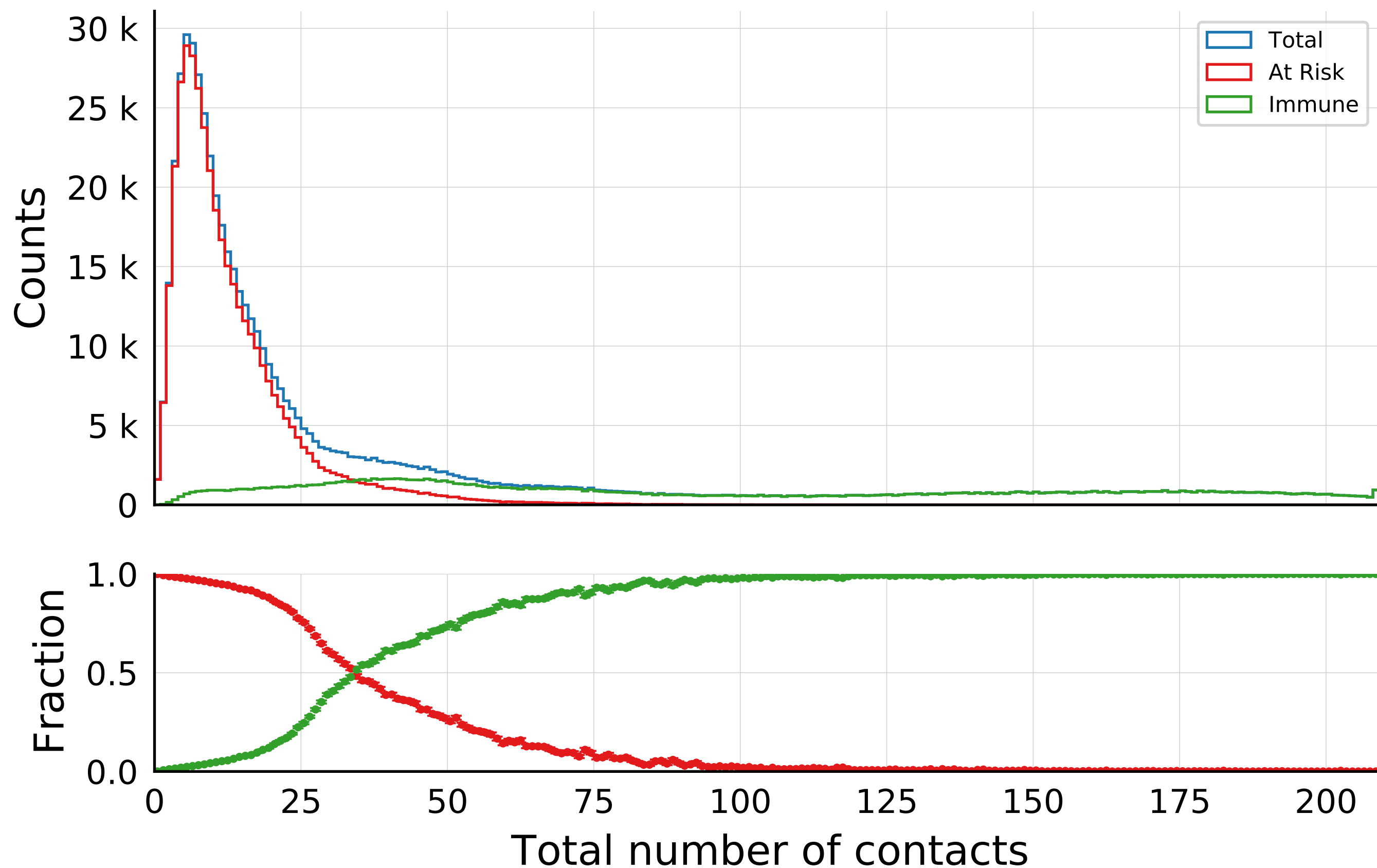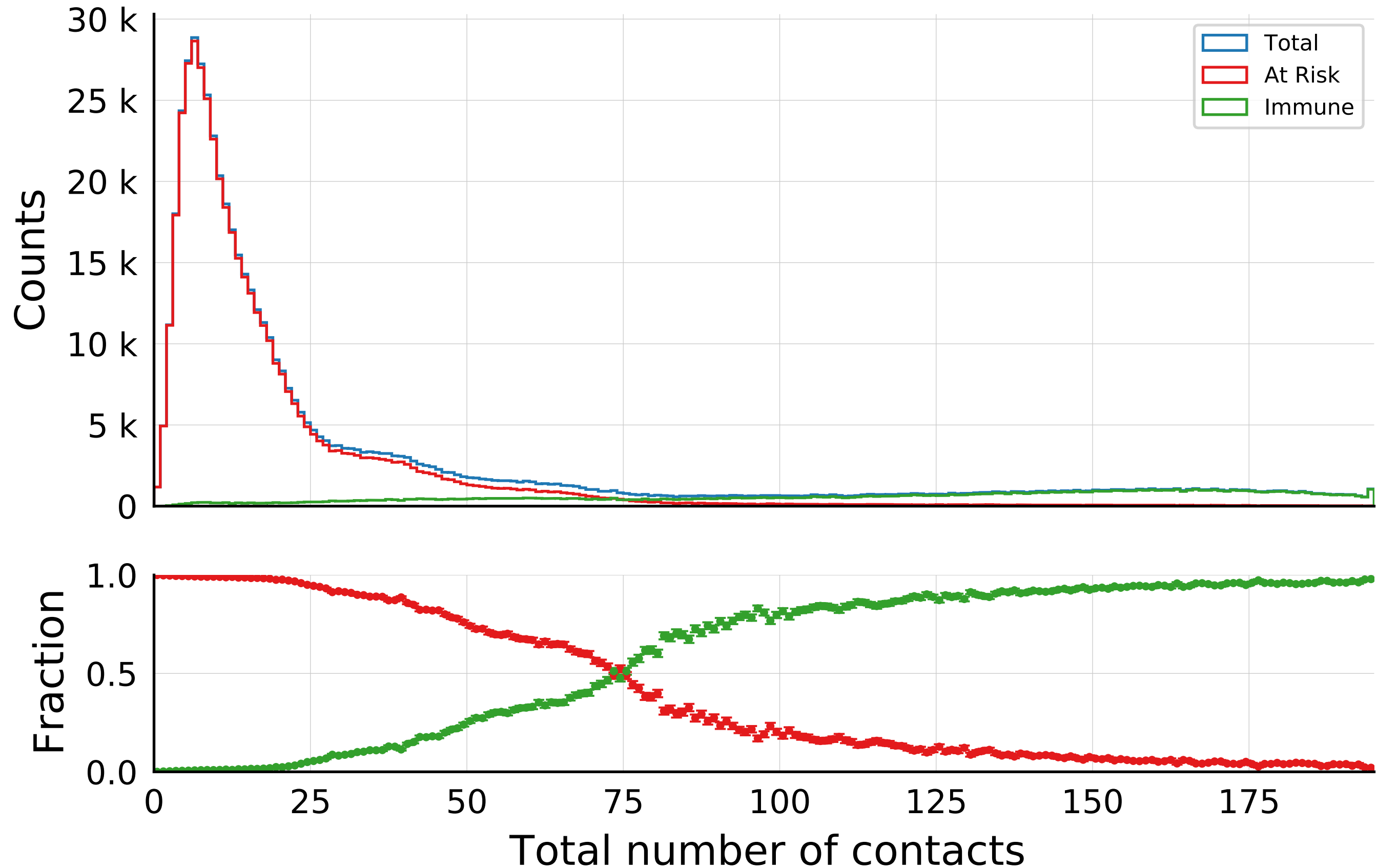$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$
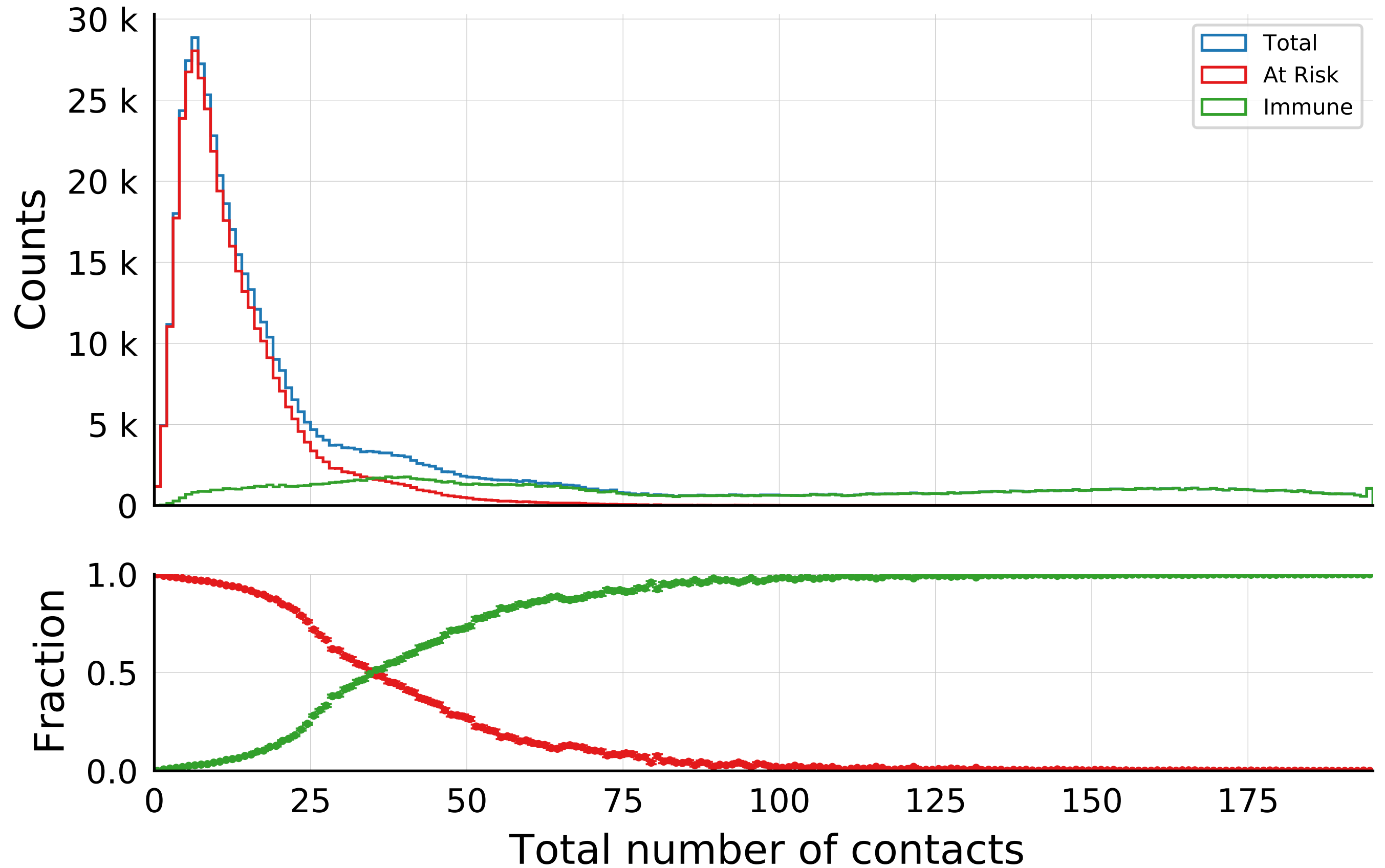
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.2$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K, \ N_{\text{init}} = 100, \ \rho = 0.2, \ \epsilon_\rho = 0.04, \ \mu = 40.0, \ \sigma_\mu = 0.0, \ \beta = 0.01, \ \sigma_\beta = 0.0$
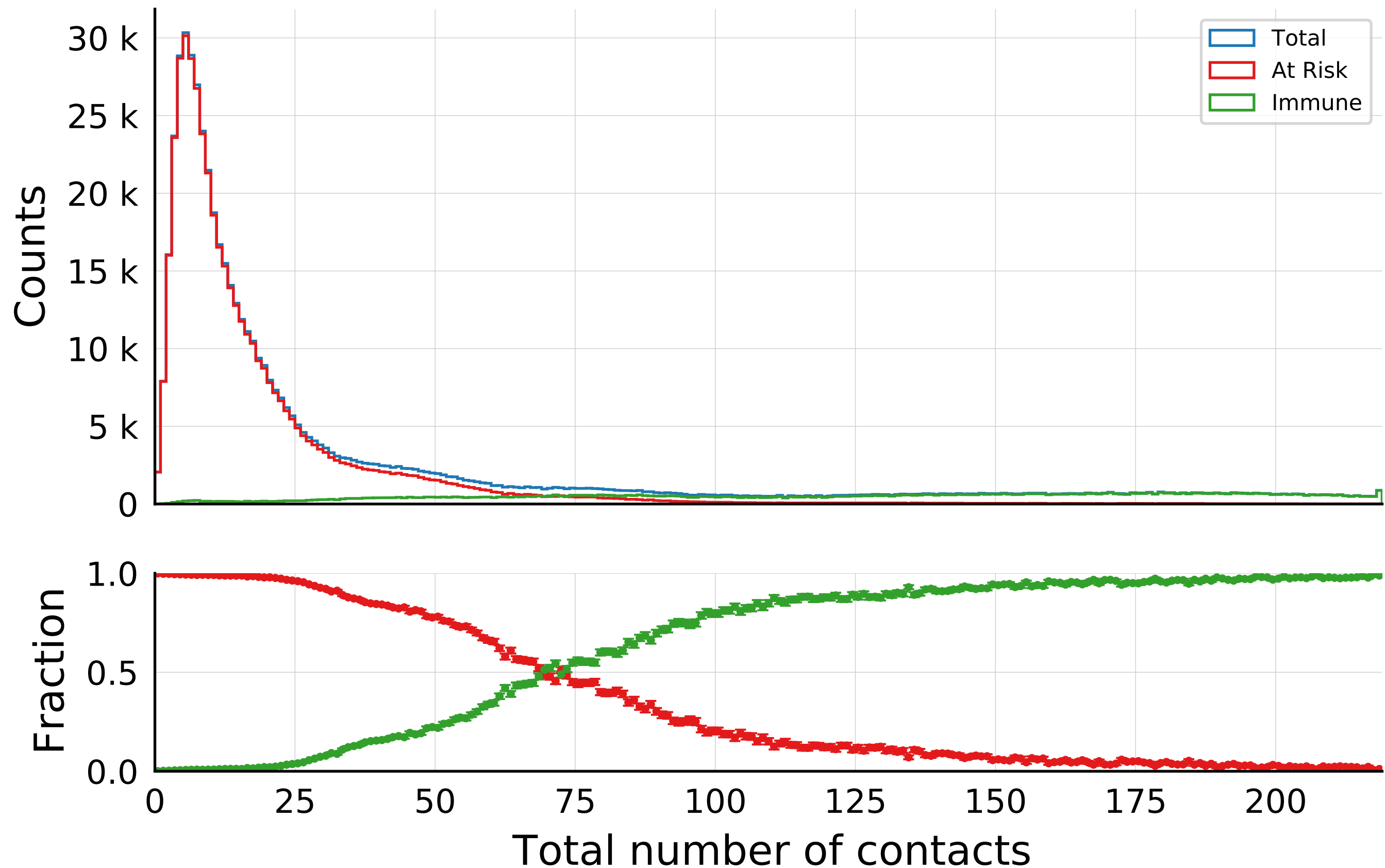$\lambda_E = 1.0, \ \lambda_I = 1.0, \ \text{algo} = 2, \ ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ \rho = 0.3,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.005,\ \sigma_\beta = 0.0$
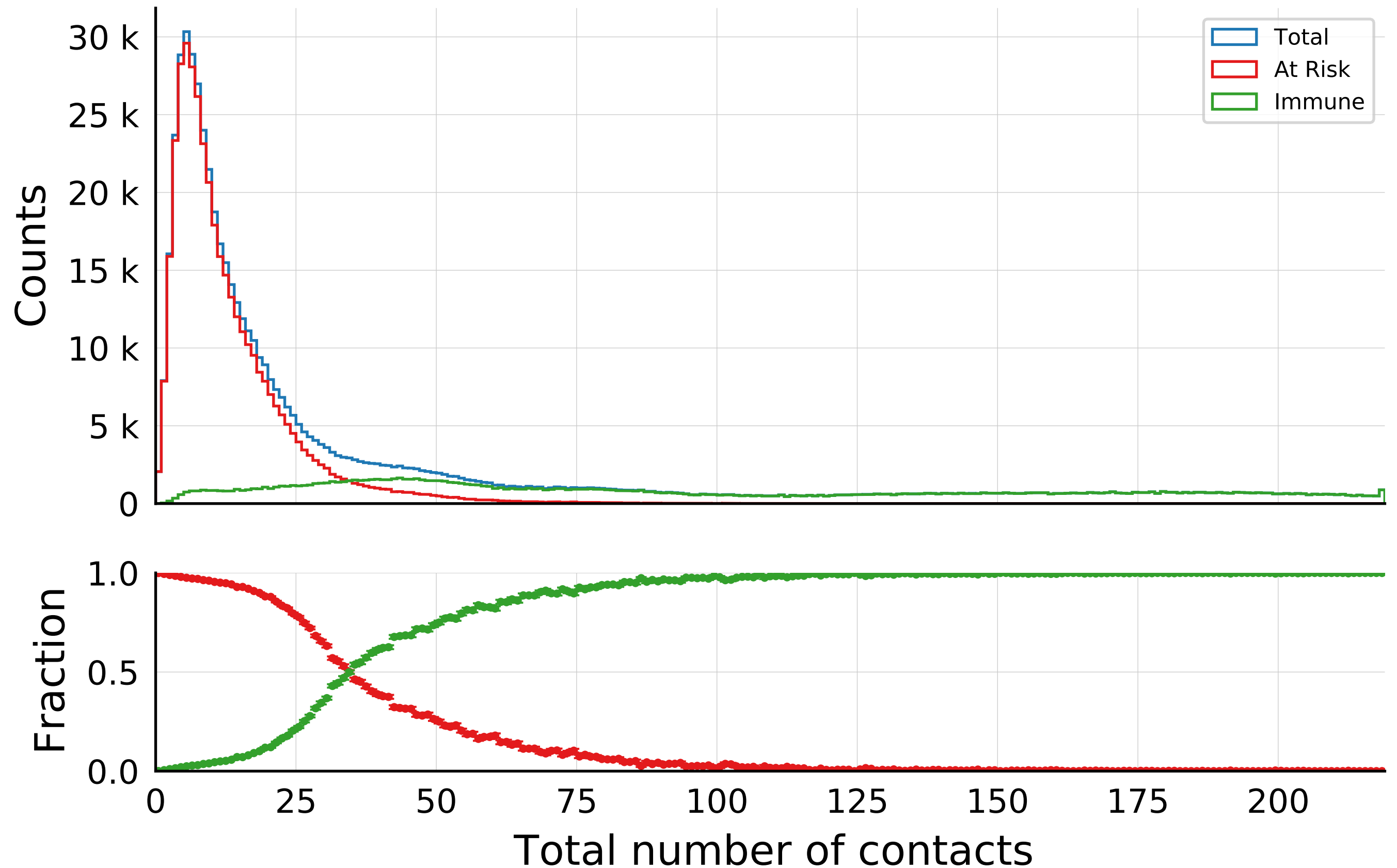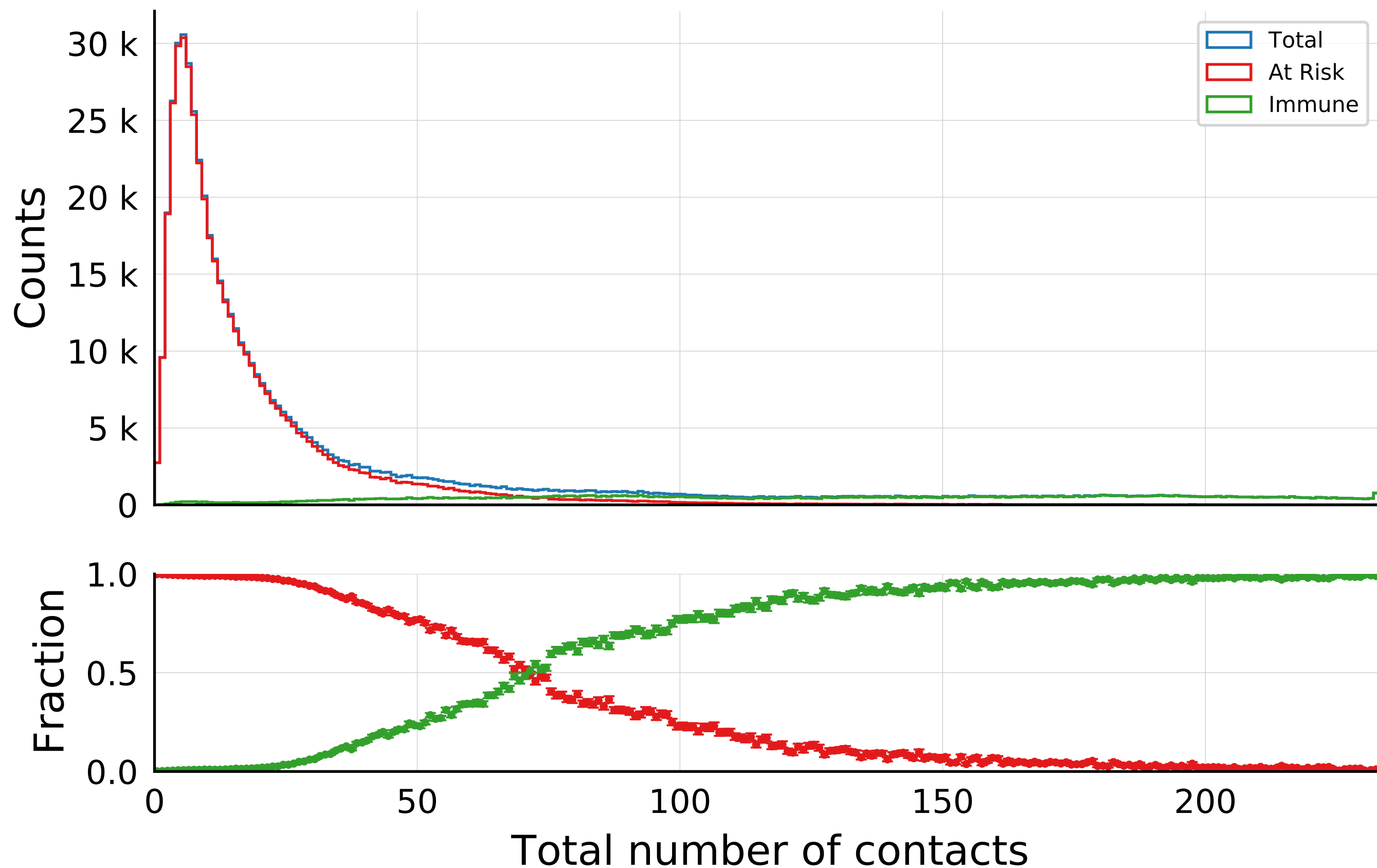$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$
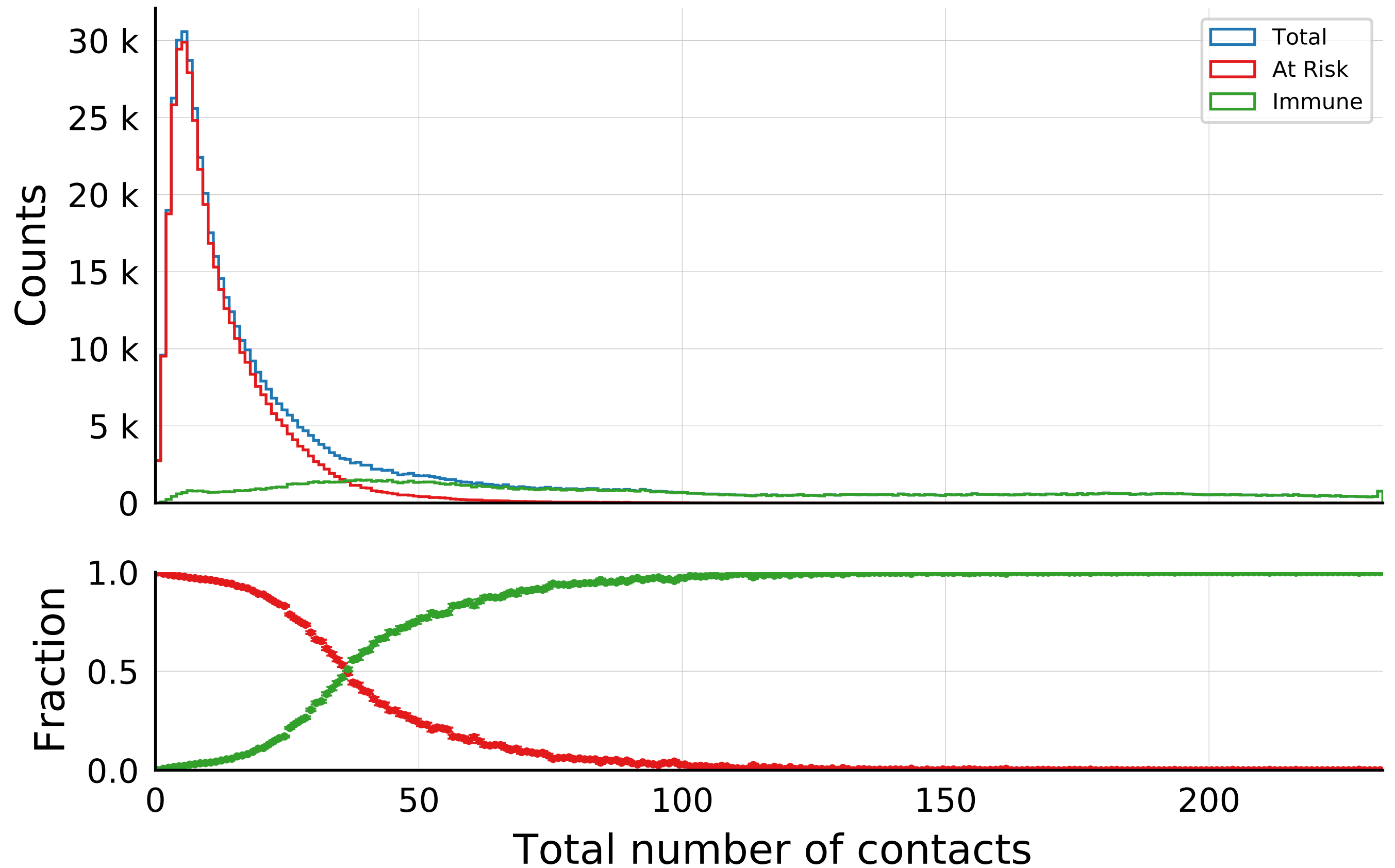
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.3$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.4$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
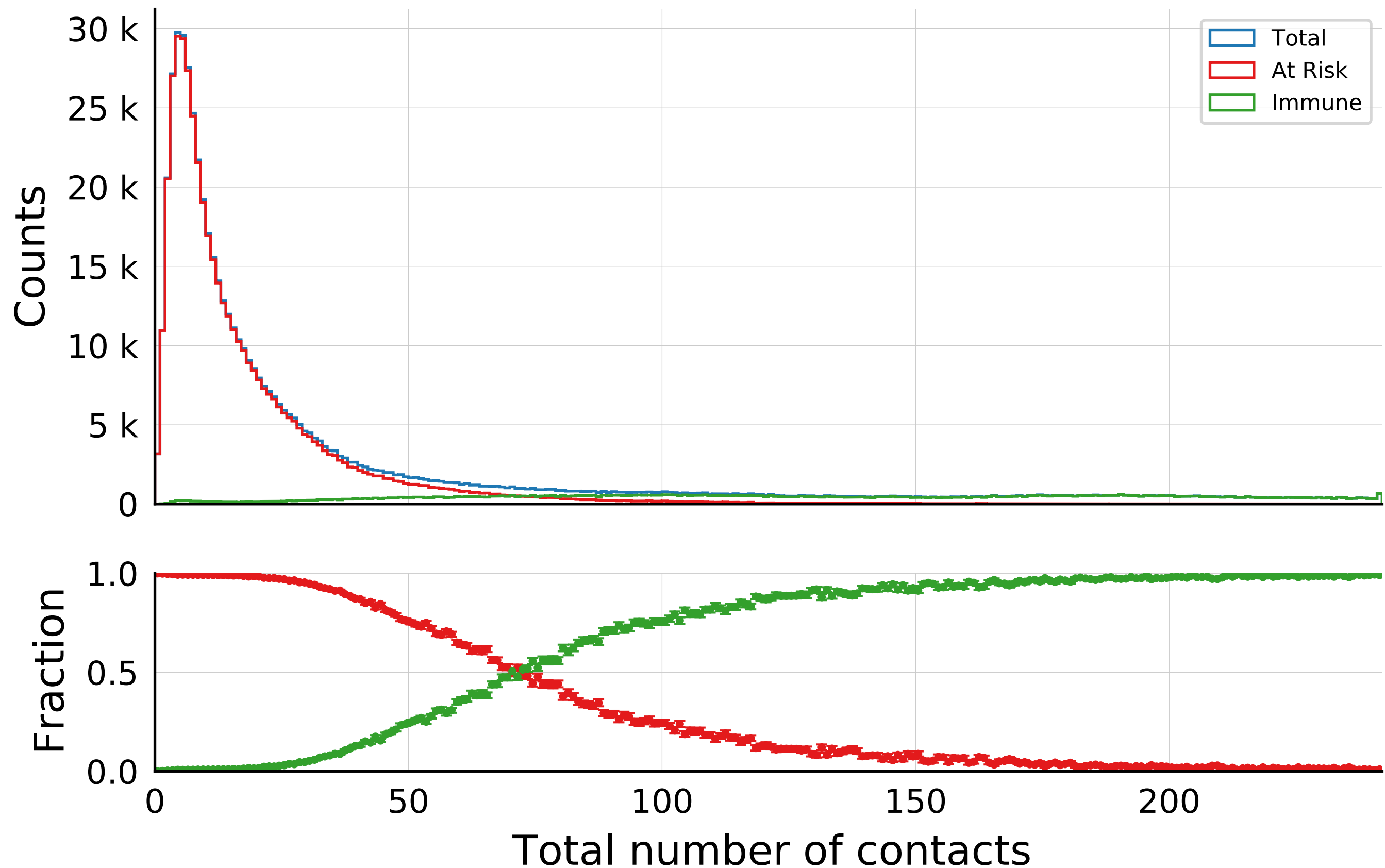$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.4$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.5$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
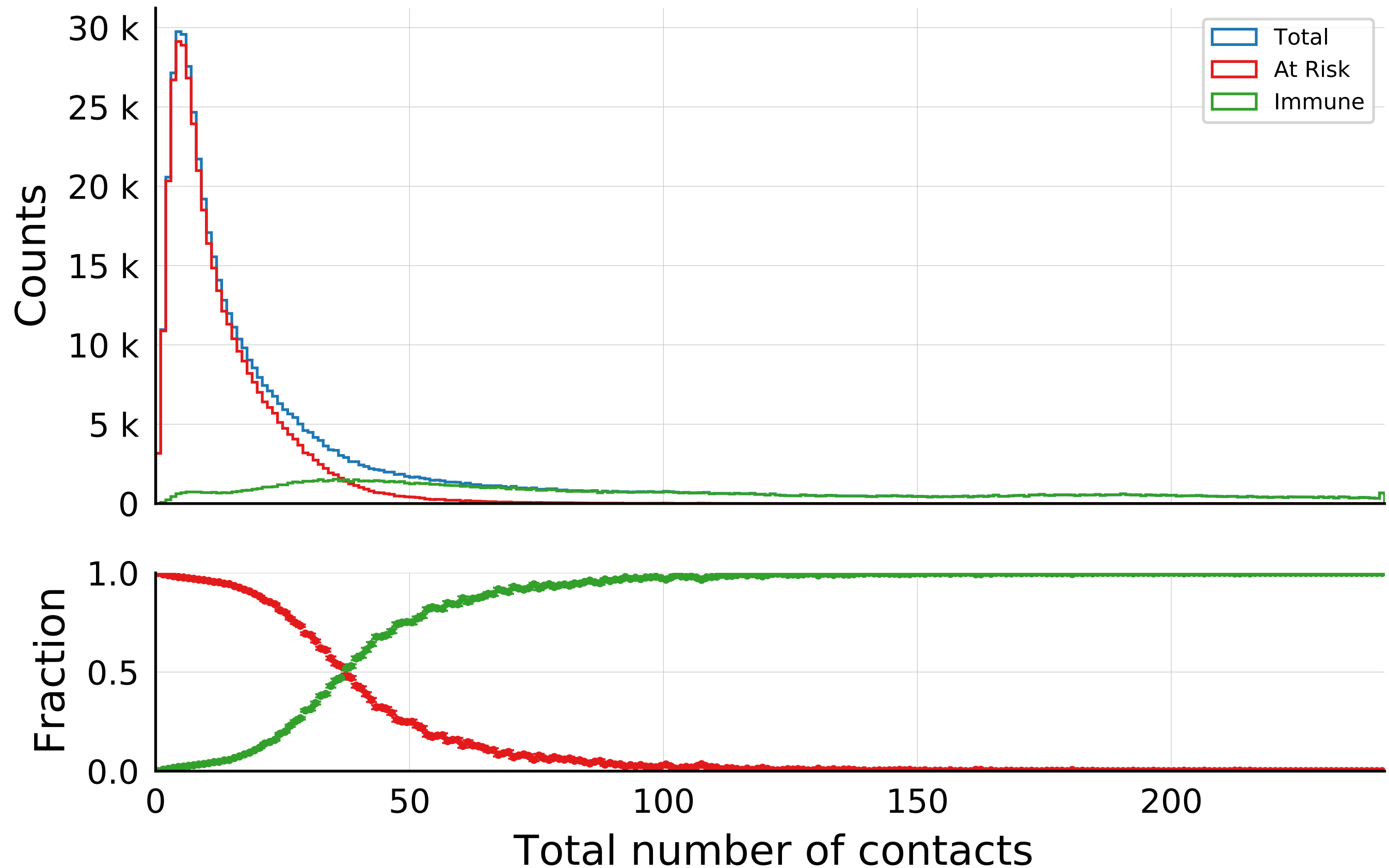$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, $ID = 0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.5$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}} = 580K,\ N_{\text{init}} = 1,\ \rho = 0.0,\ \epsilon_\rho = 0.04,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0$
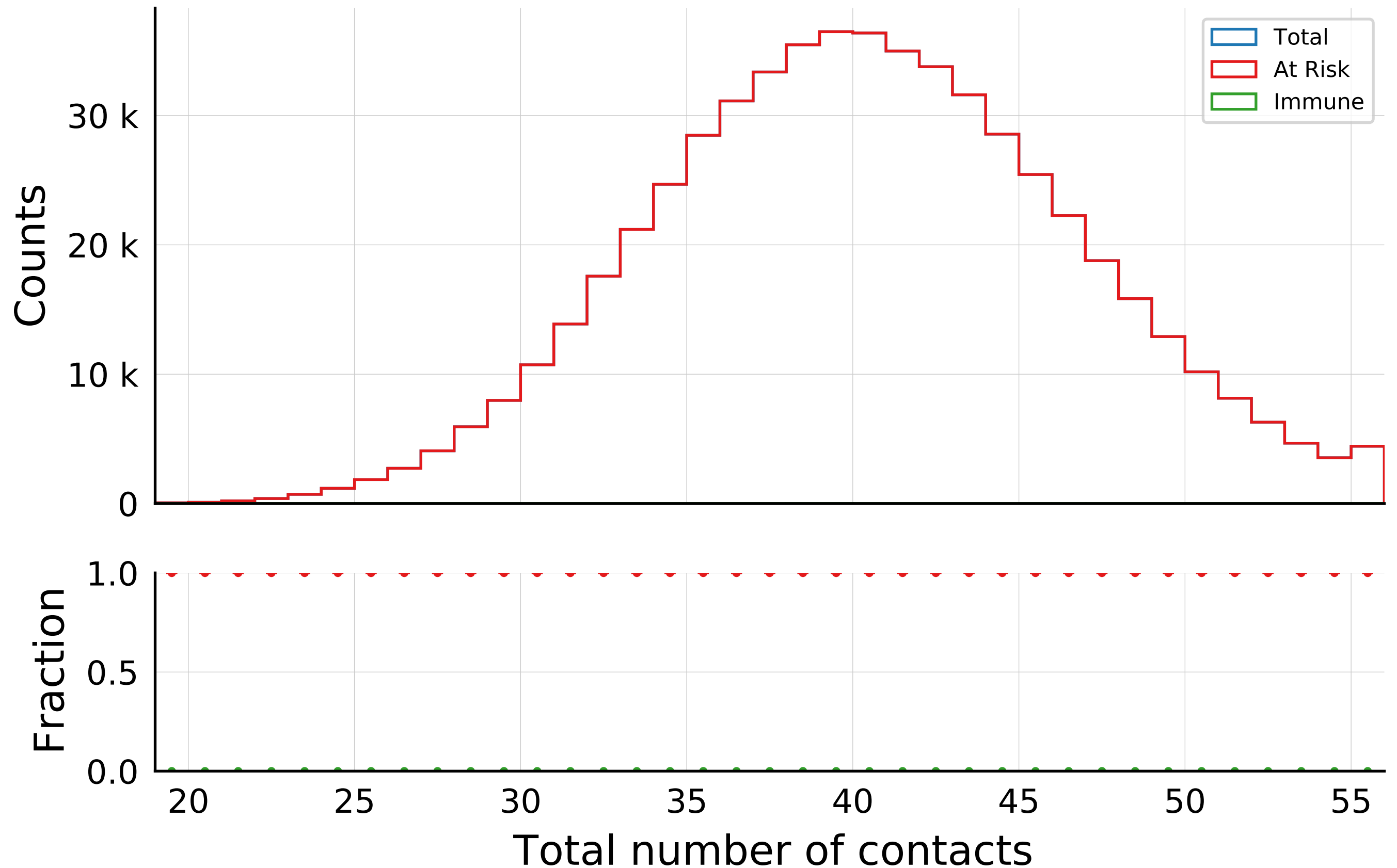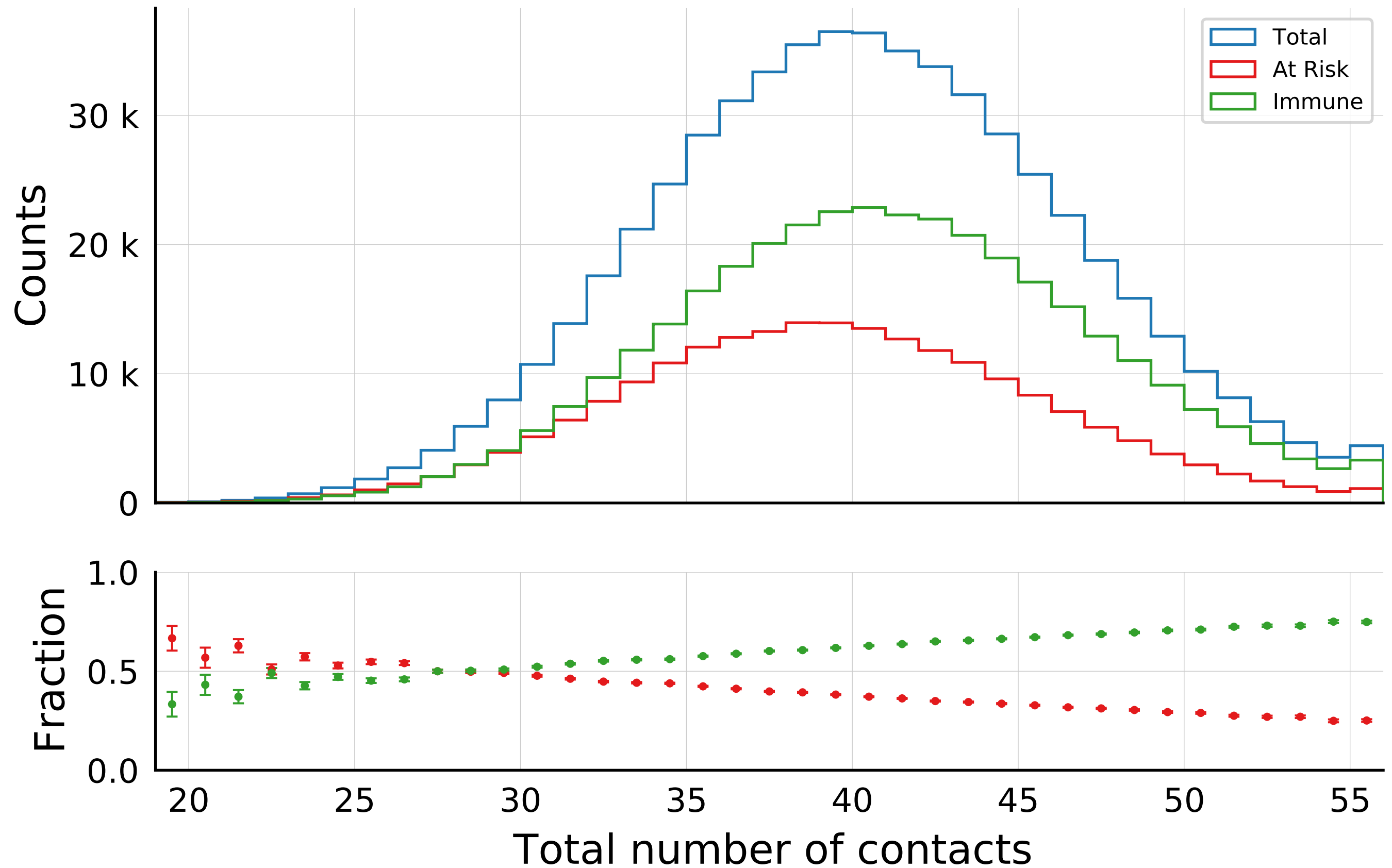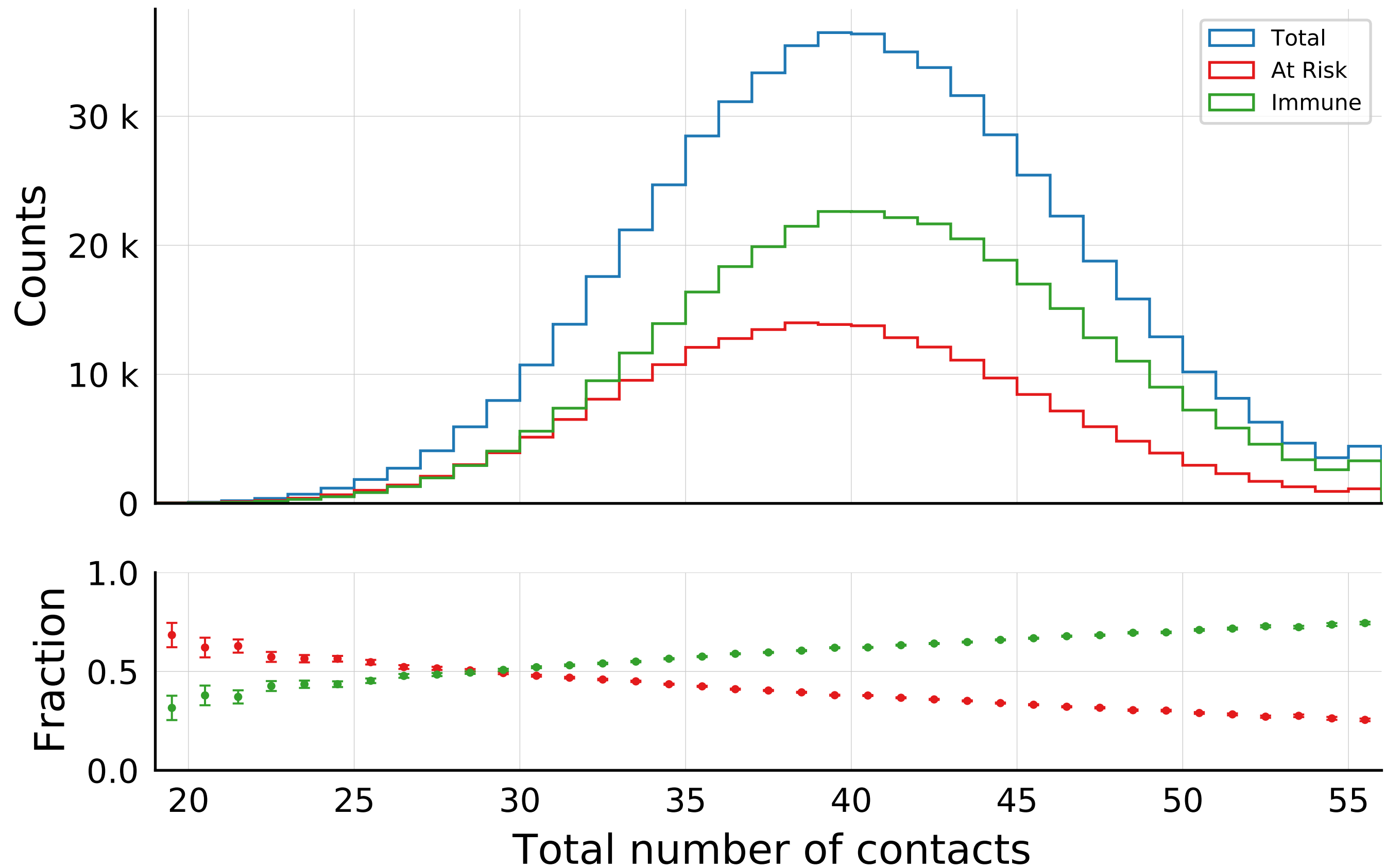$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \text{algo} = 2,\ ID = 0$
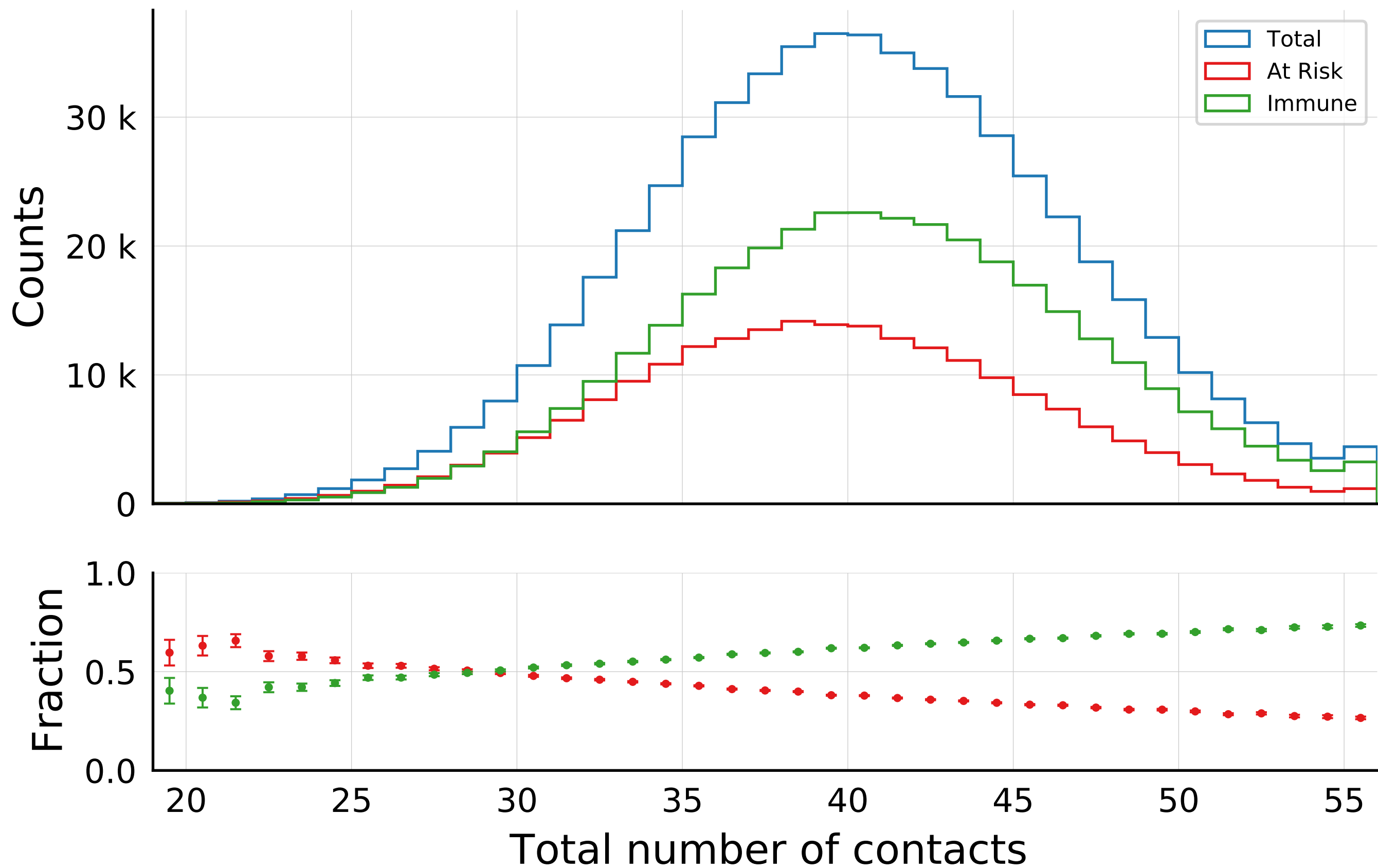
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 5K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\rm tot} = 580K$, $N_{\rm init} = 500$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, algo $= 2$, $ID = 0$

$N_{\text{tot}}=580K$, $N_{\text{init}}=50$, $\rho=0.0$, $\epsilon_\rho=0.04$, $\mu=40.0$, $\sigma_\mu=0.0$, $\beta=0.01$, $\sigma_\beta=0.0$
$\lambda_E=1.0$, $\lambda_I=1.0$, $\text{algo}=2$, $ID=0$

$N_{\text{tot}} = 580K$, $N_{\text{init}} = 5$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\text{algo} = 2$, $ID = 0$