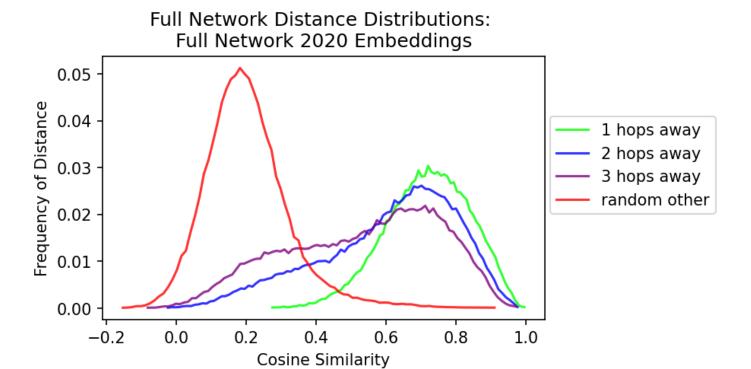
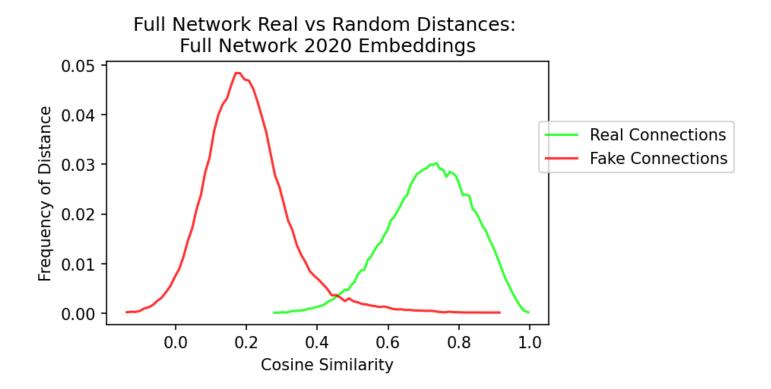
# 0. Embedding Descriptions/Comparisons

	Full Network 2020
type	NET
year	2020
n_samples	15597920
dimensions	64

## 1. Distance Distributions by Hop



### 2. Distance Distributions: Real vs Fake Connections



## 3. Prediction - Income at Age 30 (R^2)

	Baseline	Full Network 2020	Full Network 2020 + Base
2011	-0.013	0.079	0.814
2012	-0.009	0.114	0.525
2013	-0.002	0.054	0.245
2014	-0.006	0.081	0.301
2015	-0.006	0.078	0.312
2016	-0.005	0.097	0.283
2017	-0.004	0.123	0.197
2018	-0.0	0.094	0.156
2019	-0.0	0.055	0.093
2020	-0.001	0.065	0.119
2021	-0.004	0.027	0.119
OVERALL	0.168	0.062	0.226

#### **Test Counts**

	Full Network 2020	Full Network 2020 + Base
2011	34720	34606
2012	33667	33268
2013	33393	32817
2014	34309	33590
2015	34961	34103
2016	36028	35060
2017	36348	35295
2018	36233	35107
2019	36892	35681
2020	38635	37429
2021	38227	37191
OVERALL	393413	384147

# 5. Prediction - Marriage (Mean Accuracy)

### 5.1 Binary Prediction (Real vs. Fake Pairs)

	Baseline	Full Network 2020	Full Network 2020 + Base
2011	-0.0	0.575	0.028
2012	-0.001	0.575	0.023
2013	-0.001	0.576	0.016
2014	-0.001	0.58	0.01
2015	-0.001	0.577	0.004
2016	-0.002	0.582	-0.002
2017	-0.0	0.582	-0.006
2018	-0.0	0.576	-0.01
2019	-0.001	0.577	-0.01
2020	-0.002	0.573	-0.019
2021	-0.003	0.568	-0.025
OVERALL	-0.0	0.576	0.001

#### **Test Counts**

	Full Network 2020	Full Network 2020 + Base
2011	21873	5023
2012	22317	5841
2013	19756	5599
2014	20816	6269
2015	20647	6105
2016	20906	6036
2017	20575	5762
2018	20287	5334
2019	18931	4712
2020	14478	3031
2021	15100	3131
OVERALL	258662	65314

### 5.2 Actual Partner Rank vs. Random Pairings

	Full Network 2020
2011	1.658
2012	1.583
2013	1.516
2014	1.493
2015	1.369
2016	1.337
2017	1.276
2018	1.227
2019	1.324
2020	3.046
2021	4.054
OVERALL	1.947

#### **Test Counts**

	Full Network 2020
2011	122874
2012	122452
2013	110534
2014	113513
2015	112218
2016	113870
2017	111798
2018	109998
2019	104008
2020	79665
2021	83926
OVERALL	1425056