0. Embedding Descriptions/Comparisons

	Gr 2016	*Gr 2018*	*Gr 2020*
type	NET	NET	NET
year	2016	2018	2020
n_samples	212501	212596	213905
dimensions	128	128	128

1. Distance Distributions by Hop

Gron Network Distance Distributions:
Gr 2016 Embeddings

- 1 hops away
- 2 hops away
- 3 hops away
- random other

Gron Network Distance Distributions:
Gr 2018 Embeddings

- 1 hops away
- 2 hops away
- 3 hops away
- random other
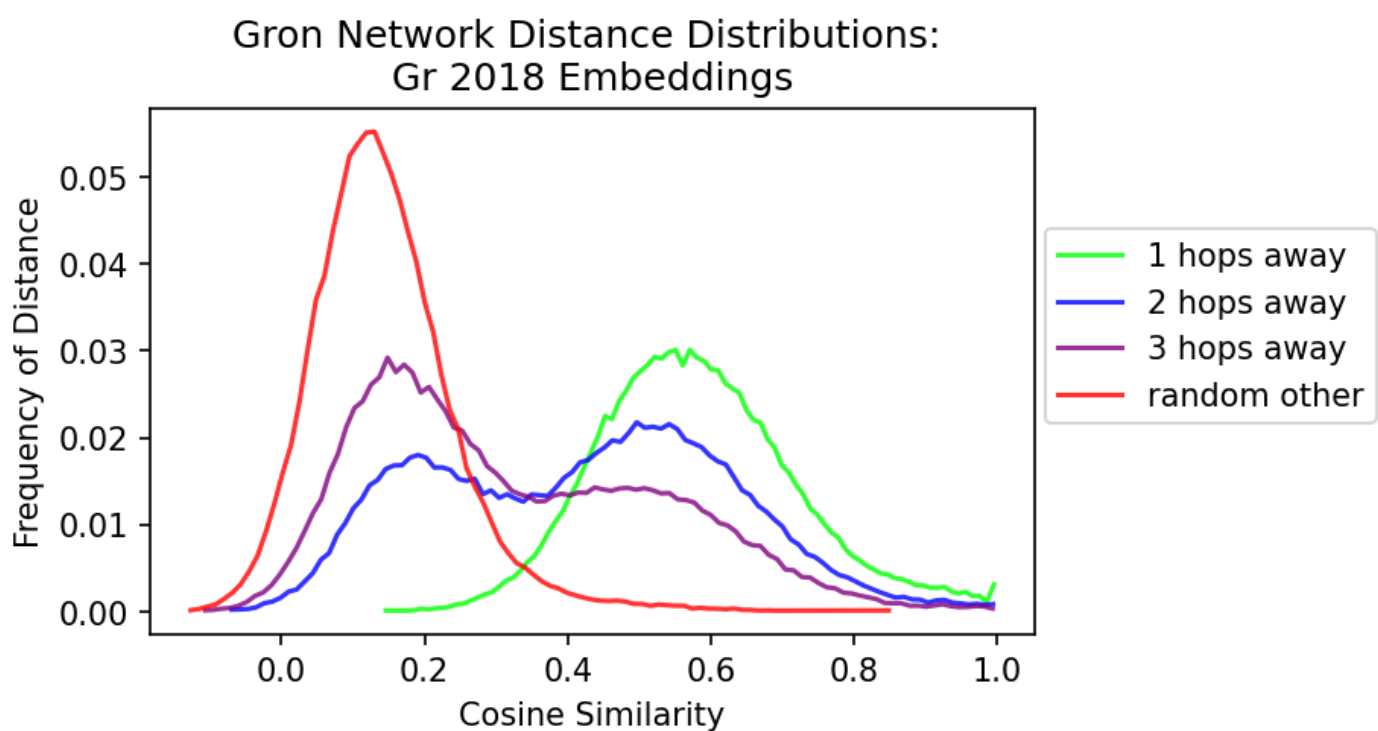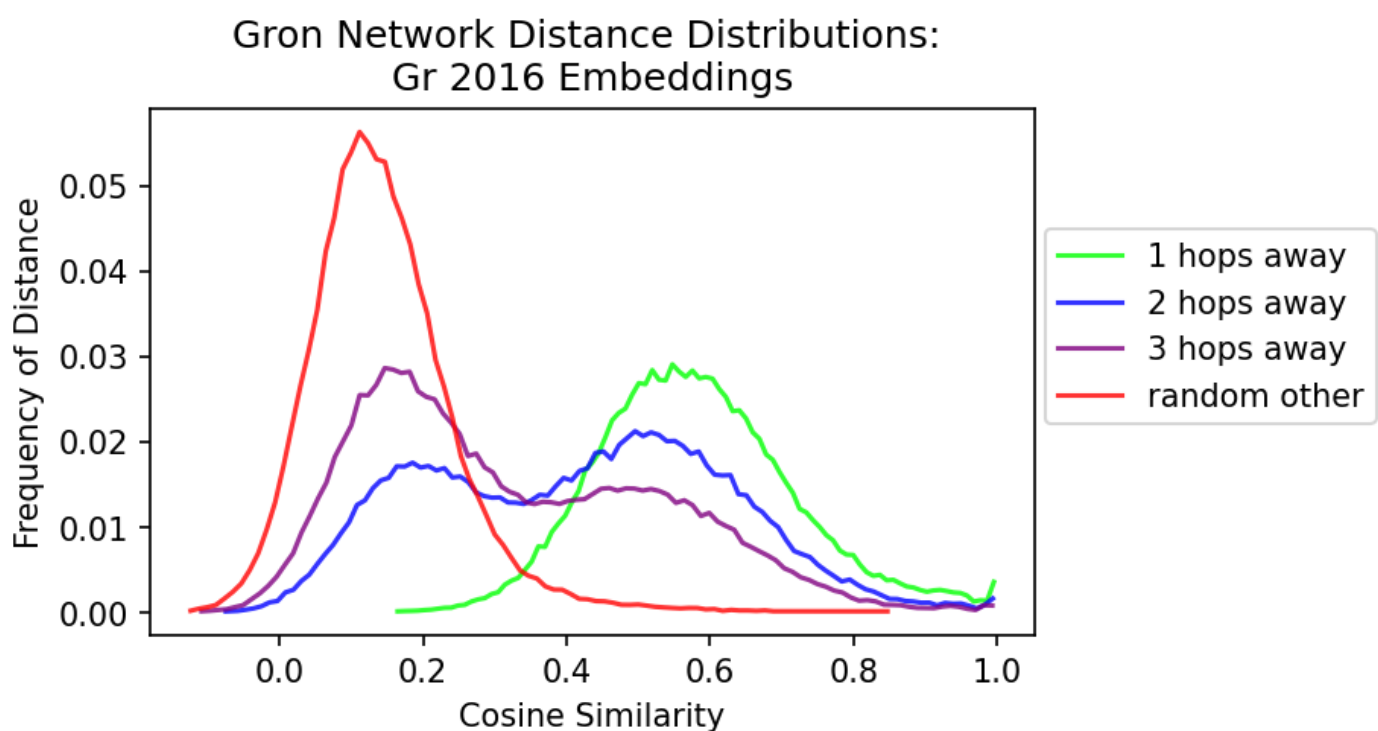
Gron Network Distance Distributions:
Gr 2020 Embeddings

Legend:
- 1 hops away
- 2 hops away
- 3 hops away
- random other
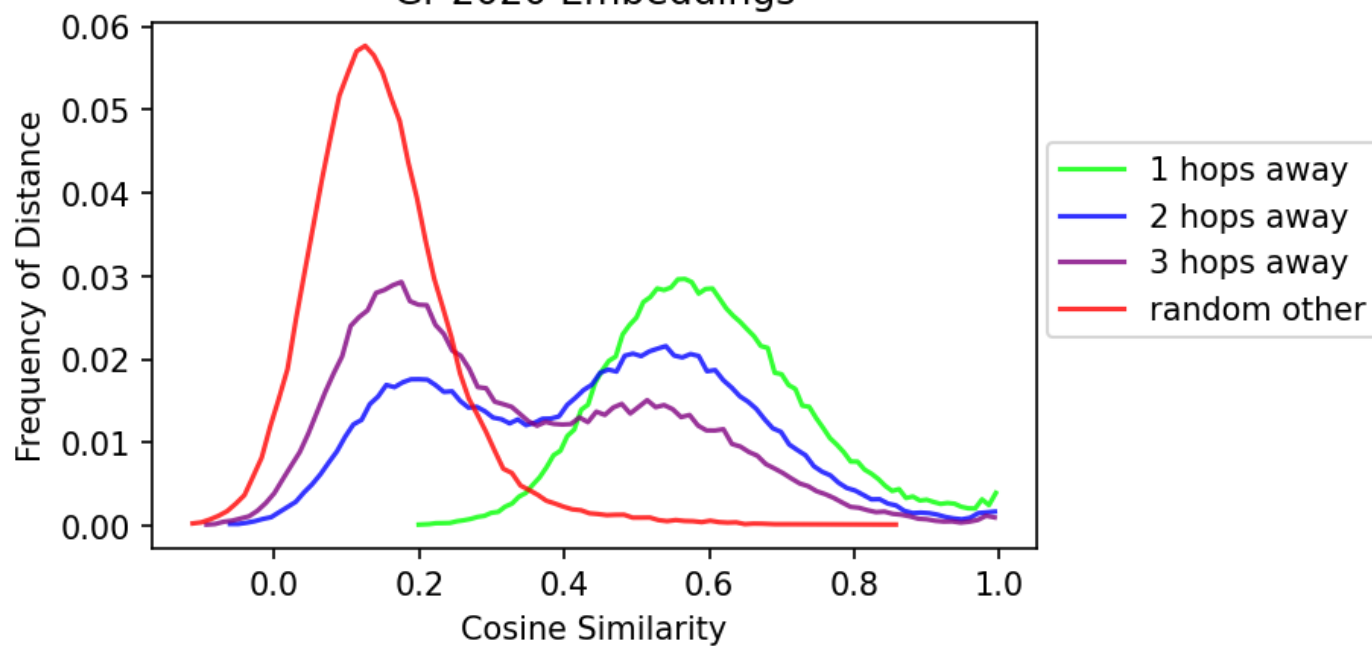
2. Distance Distributions: Real vs Fake Connections

Gron Network Real vs Random Distances:
Gr 2016 Embeddings

Gron Network Real vs Random Distances:
Gr 2018 Embeddings
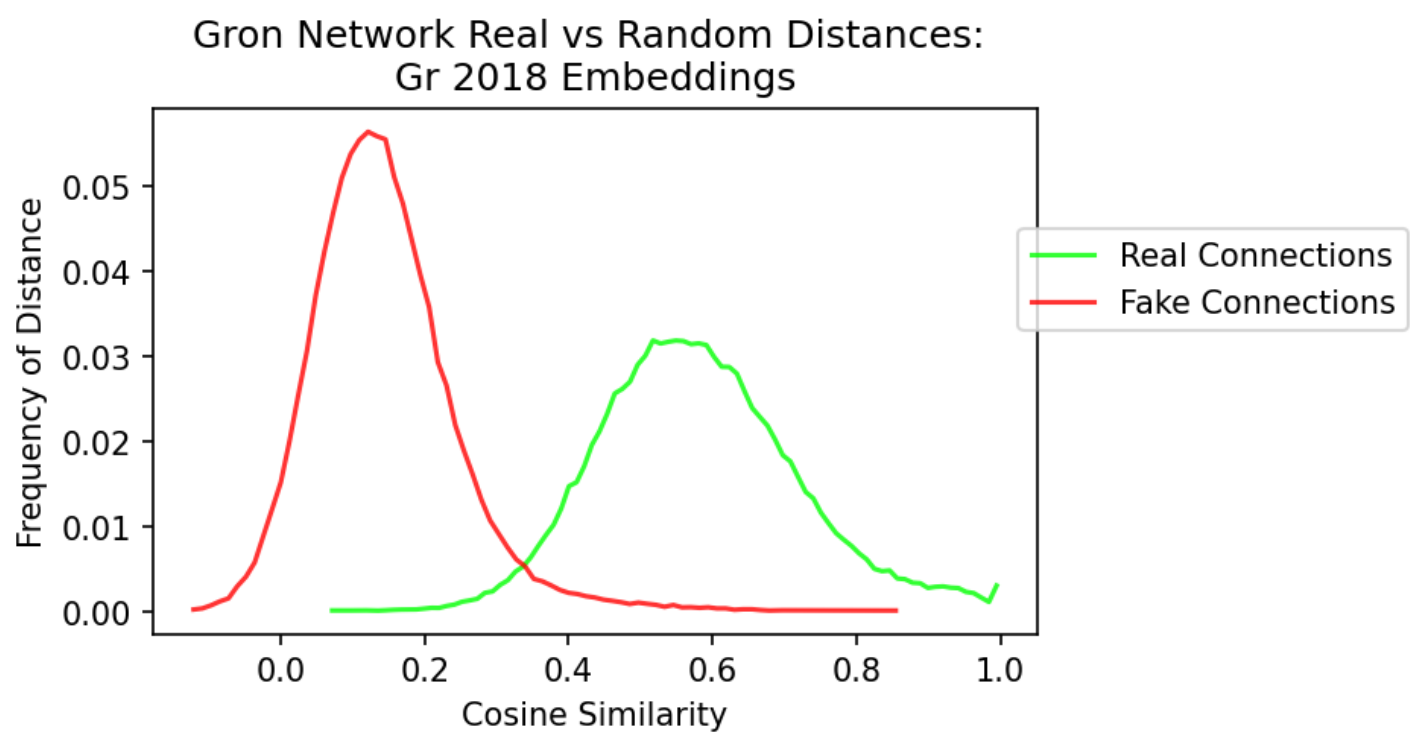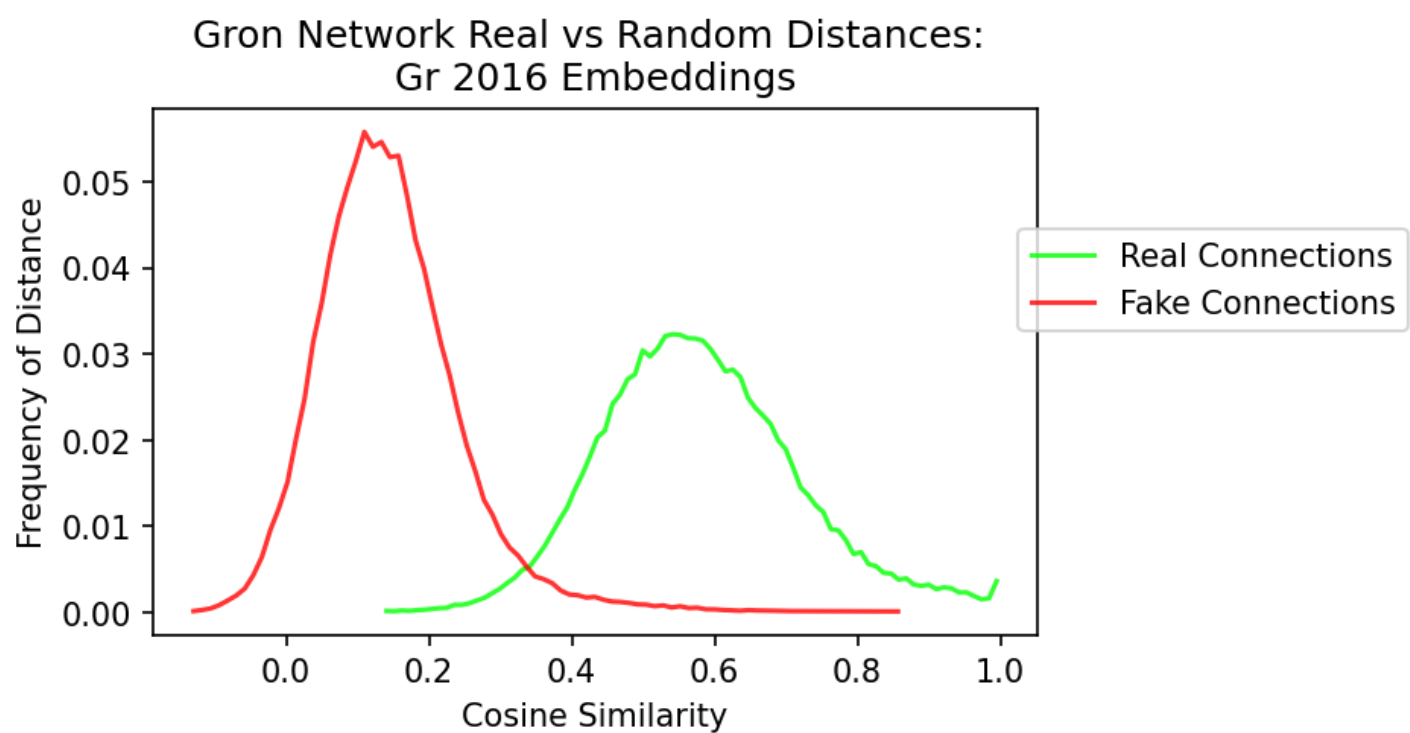
Gron Network Real vs Random Distances:
Gr 2020 Embeddings
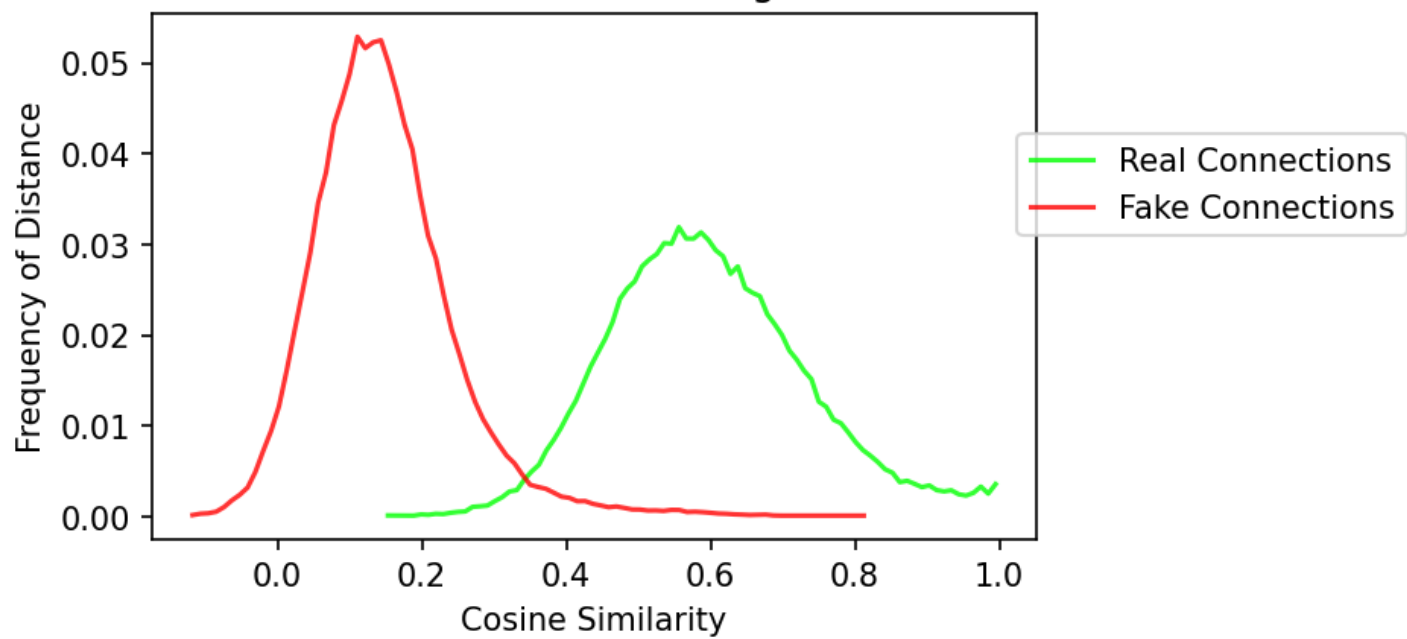
3. Prediction - Income at Age 30 (R^2)

	Baseline	Gr 2016	Gr 2016 + Base	Gr 2018	Gr 2018 + Base	Gr 2020	Gr 2020 + Base
2011	-0.034	0.099	0.664	0.1	**0.703**	0.109	0.701
2012	-0.019	0.098	0.584	0.096	0.507	0.12	**0.589**
2013	-0.005	0.077	0.452	0.108	**0.502**	0.075	0.496
2014	-0.01	0.097	**0.446**	0.111	0.427	0.102	0.394
2015	-0.005	0.121	0.389	0.156	**0.403**	0.165	0.369
2016	-0.012	0.145	**0.273**	0.152	0.224	0.129	0.248
2017	-0.005	0.153	**0.235**	0.169	0.226	0.17	0.217
2018	-0.0	0.152	0.174	0.204	**0.205**	0.202	0.165
2019	-0.004	0.141	0.151	0.15	0.144	**0.18**	0.165
2020	-0.001	0.113	0.137	0.159	0.137	**0.179**	0.172
2021	-0.012	0.045	0.16	0.062	0.153	0.132	**0.169**
OVERALL	0.14	0.083	0.245	0.115	0.259	0.137	**0.264**

Test Counts

	Gr 2016	Gr 2016 + Base	Gr 2018	Gr 2018 + Base	Gr 2020	Gr 2020 + Base
2011	499	460	447	411	411	378
2012	528	480	465	424	421	384
2013	563	502	486	439	430	391
2014	626	547	535	472	469	416
2015	690	587	578	503	500	440
2016	779	645	636	545	548	477
2017	835	717	727	617	619	537
2018	858	753	792	652	655	559
2019	935	830	845	709	733	612
2020	1081	984	953	817	887	713
2021	1173	1082	991	875	893	745
OVERALL	8567	7587	7455	6464	6566	5652

5. Prediction - Marriage (Mean Accuracy)

5.1 Binary Prediction (Real vs. Fake Pairs)

	Baseline	Gr 2016	Gr 2016 + Base	Gr 2018	Gr 2018 + Base	Gr 2020	Gr 2020 + Base
2011	-0.012	0.973	-0.009	**0.994**	-0.034	0.986	-0.041
2012	-0.007	0.985	0.0	0.984	-0.067	**0.997**	-0.013
2013	-0.012	0.98	-0.027	**0.991**	0.022	0.99	-0.13
2014	0.0	0.996	0.0	0.997	0.0	**0.998**	0.0
2015	0.0	0.981	-0.045	0.985	-0.023	**0.994**	0.0
2016	0.0	0.984	-0.158	0.988	0.0	**0.991**	0.0
2017	-0.004	0.982	-0.022	0.987	0.0	**0.988**	-0.029
2018	-0.006	0.966	-0.073	0.984	0.031	**0.988**	-0.074
2019	0.0	0.972	-0.039	0.992	0.0	**0.995**	0.0
2020	0.0	0.979	0.015	0.982	-0.081	**0.986**	0.0
2021	-0.017	0.97	-0.012	**0.994**	-0.038	0.975	-0.53
OVERALL	-0.005	0.981	-0.267	0.987	-0.418	**0.989**	-0.629

Test Counts

	Gr 2016	Gr 2016 + Base	Gr 2018	Gr 2018 + Base	Gr 2020	Gr 2020 + Base
2011	119	21	103	17	97	15
2012	137	37	125	30	115	27
2013	121	35	109	28	100	23
2014	134	44	117	32	106	27
2015	136	57	122	42	103	29
2016	137	54	121	39	107	31
2017	133	55	127	48	112	35
2018	140	61	136	49	119	38
2019	130	58	125	48	120	41
2020	94	35	98	30	100	26
2021	100	34	98	33	95	30
OVERALL	1646	552	1531	449	1416	369

5.2 Actual Partner Rank vs. Random Pairings

	Gr 2016	Gr 2018	Gr 2020
2011	**2.277**	2.479	3.832
2012	2.726	**2.365**	2.53
2013	2.294	**1.955**	2.788
2014	**2.14**	2.991	2.546
2015	**1.765**	1.843	2.311
2016	3.911	**2.145**	3.013
2017	5.698	2.015	**1.942**
2018	6.8	5.802	**2.133**
2019	9.862	5.605	**1.961**
2020	14.21	10.405	**8.436**
2021	16.268	12.715	**7.492**
OVERALL	6.499	5.113	**3.919**

Test Counts

	Gr 2016	Gr 2018	Gr 2020
2011	1194	1042	964
2012	1362	1234	1142
2013	1216	1096	1002
2014	1328	1158	1052
2015	1334	1200	1020
2016	1346	1194	1062
2017	1306	1248	1112
2018	1358	1336	1170
2019	1274	1246	1198
2020	926	966	996
2021	992	982	950
OVERALL	16266	15196	14088