The Effect of Team Gender Homophily on Female Developers' Career

ORSOLYA VÁSÁRHELYI
DATABASE

Data Source: Github Archive
Analyzed Year: 2013

Number of Projects: 180,840
Number of Users: 610,614
Number of Users with e-mail addresses or name: 602,212
Number of Users with merged pull-requests: 130,814
Collaboration network N, E: 37,392, 88,117
Follower network N, E: 602,212, 1,600,673

Around 40% of the users do not indicate their real name or e-mail address.
FEMALE DEVELOPERS HAVE MORE HETEROPHILE CONNECTIONS THAN MALE

Homophily by gender in Github Followers Network

- Male: 0.548 (real data) vs 0.523 (randomized data)
- Female: 0.293 vs 0.489
- Unknown: 0.787 vs 0.491

Homophily by gender in Github Accepted Pull Request Network

- Male: 0.427 (unweighted network) vs 0.791 (weighted network)
- Female: 0.202 vs 0.565
- Unknown: 0.642 vs 0.871
POPOULAR DEVLOPERS HAVE MORE HETEROPHILE CONNECTIONS IN CO-WORKING NETWORK