COSC 6323 - Statistical Methods in Research
Project Phase - 1

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Contributions:

Fig 3:
Fig 2A:
Fig 2B:
Fig S1:
Fig S2:
Fig S3:
Fig S4:

March 08, 2019.

Fig. 3 :

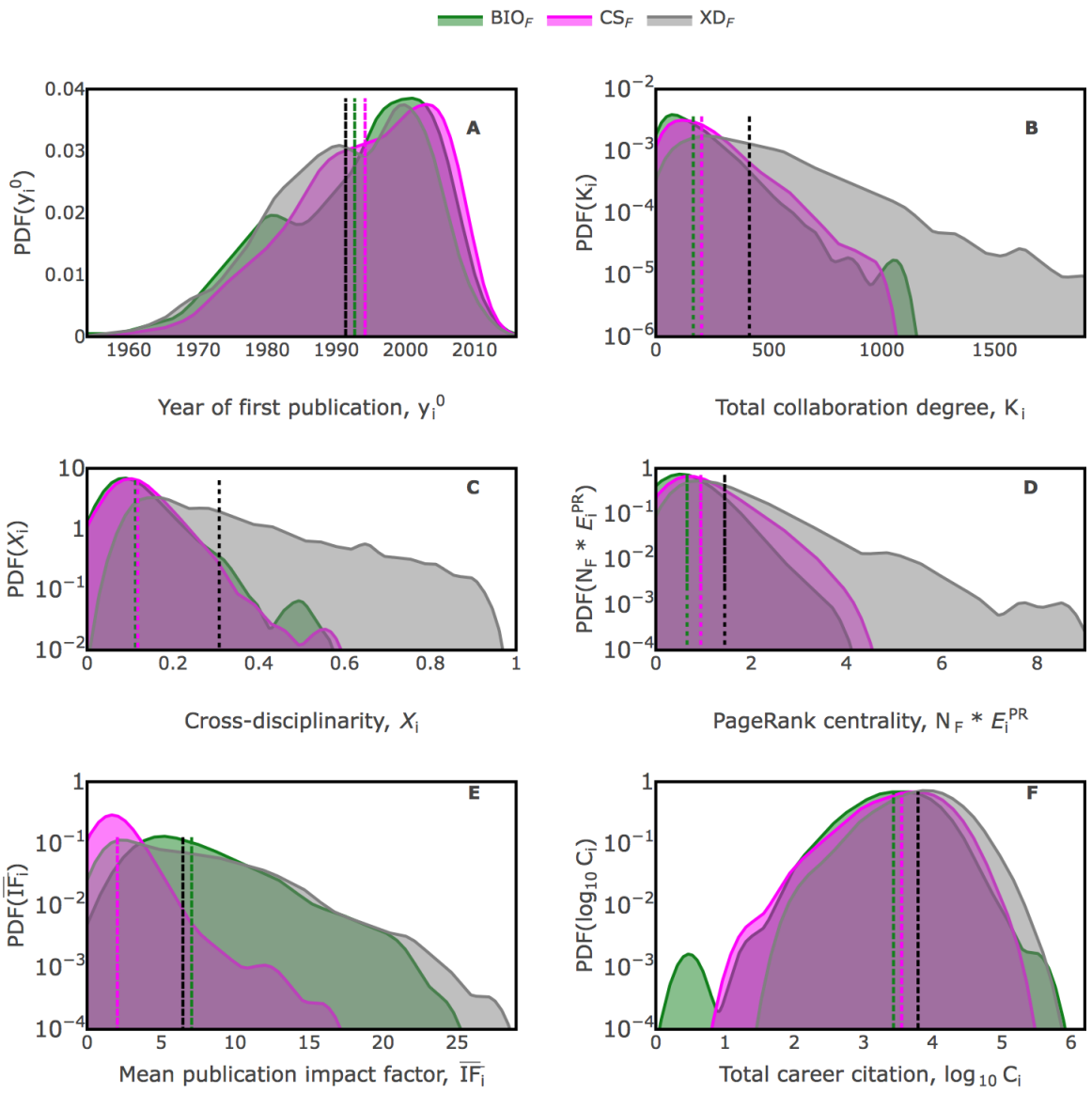

Fig. 3. Descriptive statistics for the career data set.

Extended caption:

Here, the vertical lines indicate the distribution means for the corresponding

subsets. **(A)** ... **(B)** ... **(C)** ... **(D)** ... **(E)** ... **(F)** ...

Fig. 2(A) :

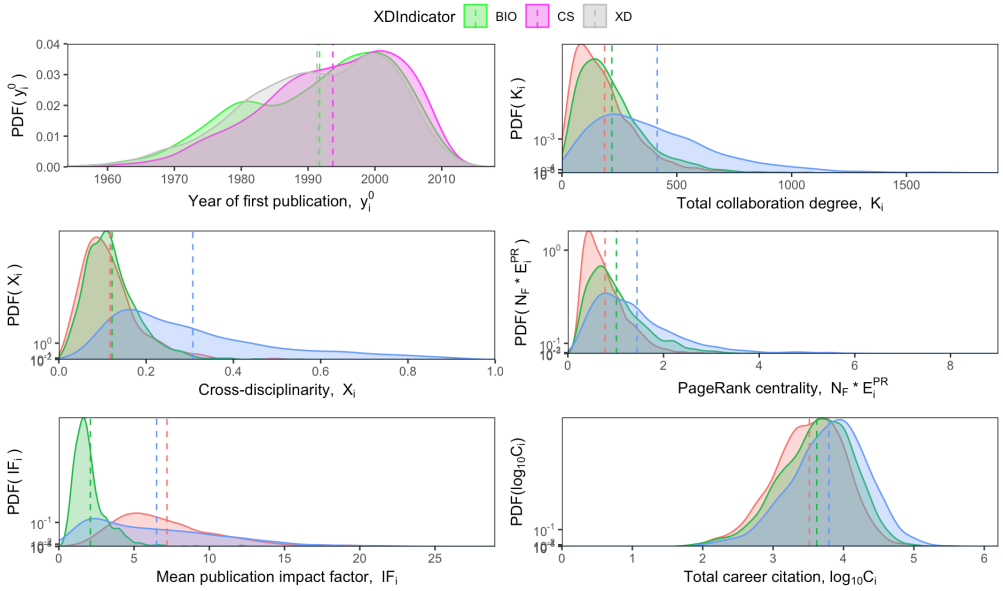

Fig. 2. Growth of cross-disciplinary social capital. (A) Evolution of the giant component in the U.S. biology-computing network.

Extended caption:

Here, ...

Fig. 2(B) :

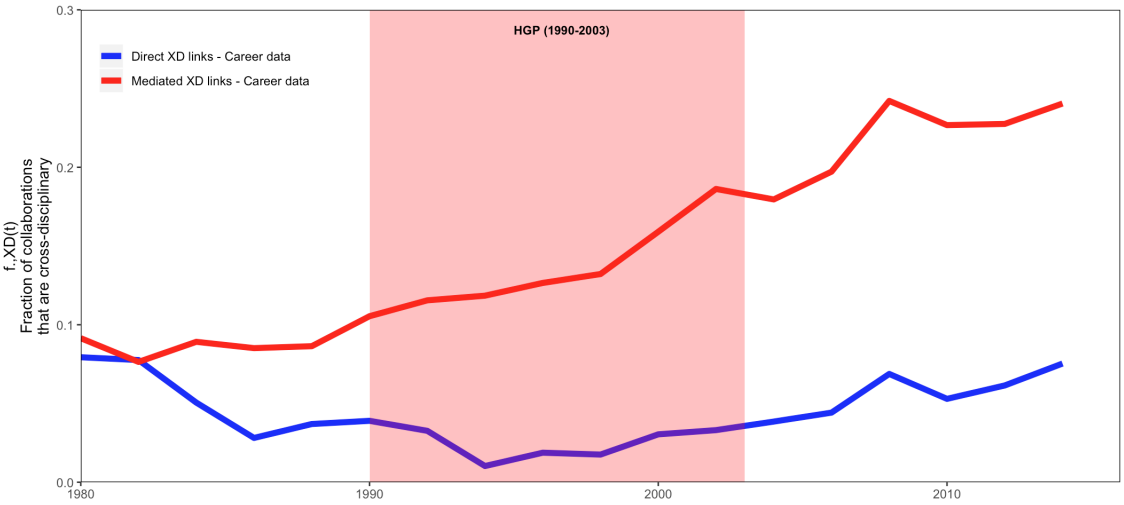

Fig. 2. Growth of cross-disciplinary social capital. (B) Evolution of the fraction of collaboration links in the F network that are cross-disciplinary.

Description of figure content:

Here, in Fig 2B, we plotted the fraction of collaboration that are cross-disciplinary for each nonoverlapping 2-years period. The blue and red line represents the trend of Mediated-XD links and Direct-XD links, respectively. For each nonoverlapping 2-years period, we collected all the publication data from **GoogleScholar_paper_stats.csv** file. Then, for the Direct-XD links, we count total direct (F-F) links and total cross-discipline direct links for each period. Finally, we calculated the fraction of direct collaboration that are cross-disciplinary by **total direct F-F links / total cross-discipline direct links**. Similarly, for the Mediated-XD links, we count total mediated (F-P-F) links and cross-discipline mediated links for each period. Finally, we calculated the fraction of mediated collaboration that are cross-disciplinary by **total mediated F-P-F links / total cross-discipline mediated links.**

Observations, conclusions, and hypotheses:

· **bla1** item 1

• **bla2** item 2

∗ **bla3** item 3

Fig. S1 :

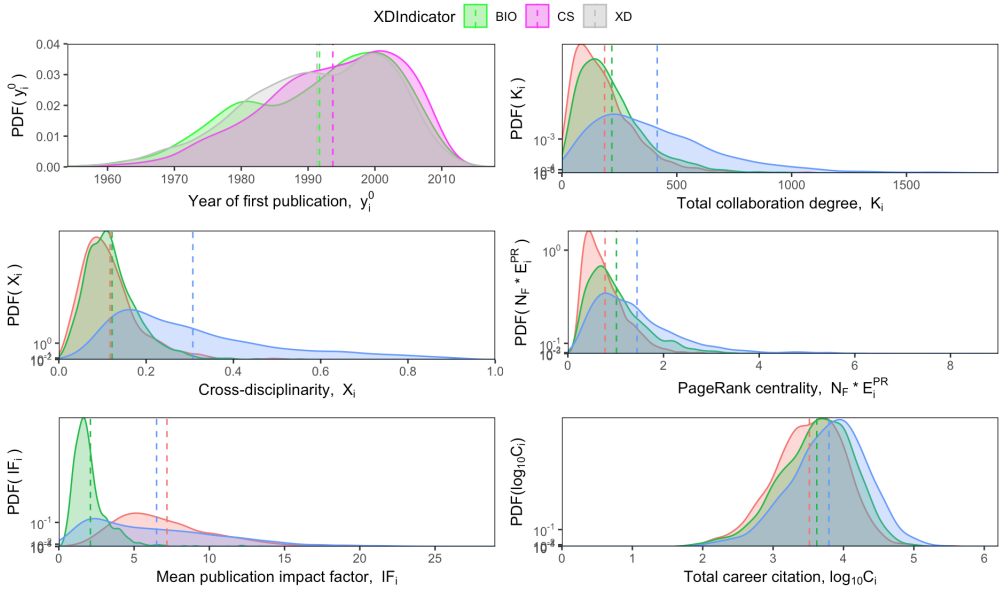

Fig. S1.

Extended caption:

Here, ...

Fig. S2 :

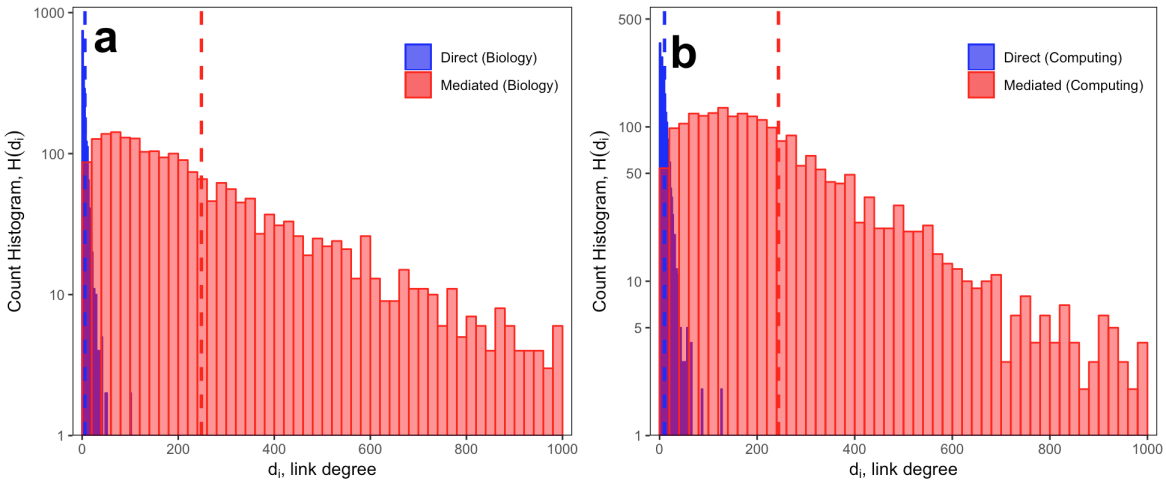

Fig. S2. *F* network distributions for direct and mediated associations. for **a.** biology and **b.** computing.

Extended caption:

Here, ...

Fig. S3 :

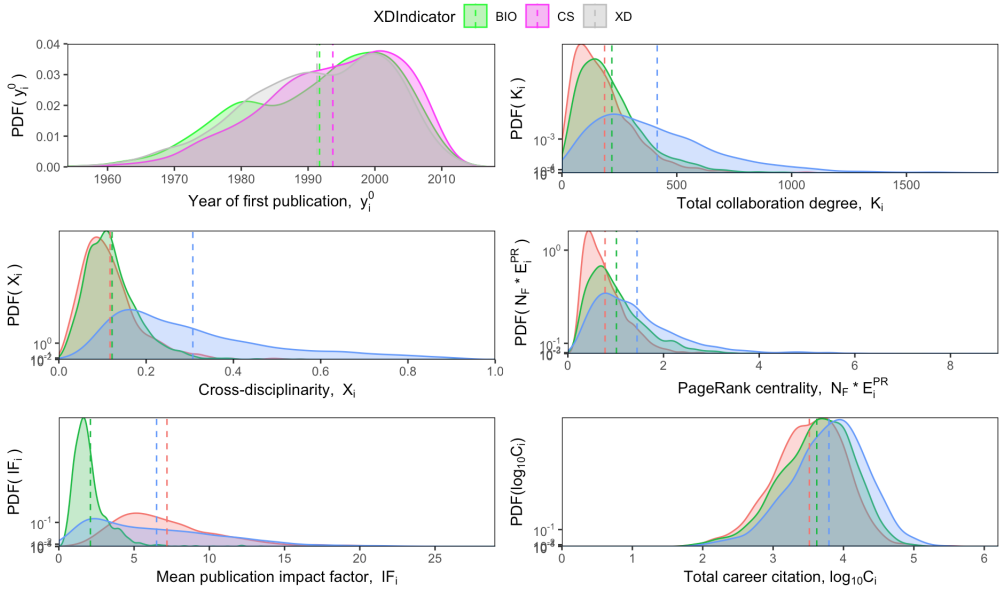

Fig. S3.

Extended caption:

Here, ...

Fig. S4 :

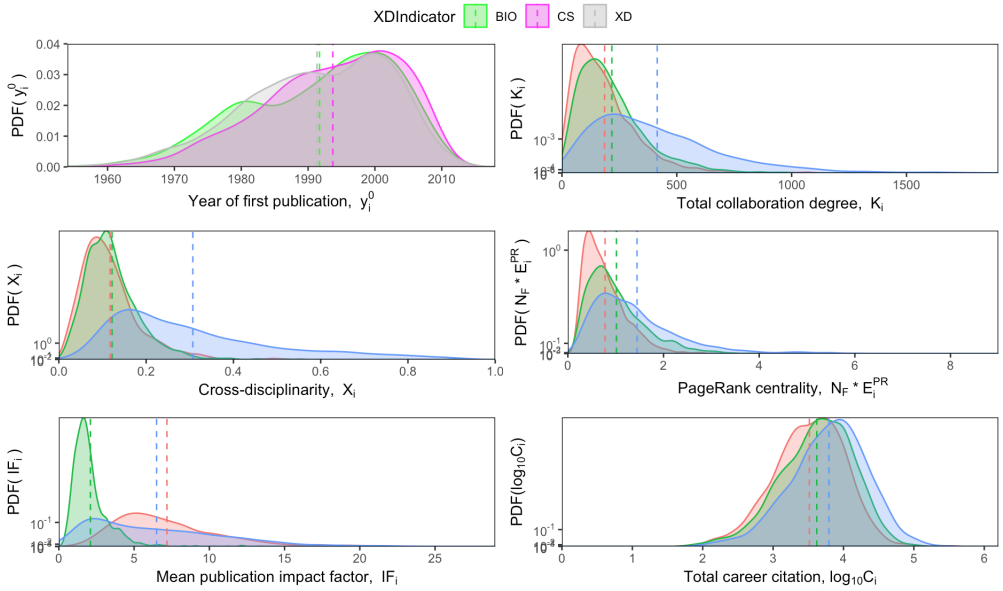

Fig. S4.

Extended caption:

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