

On Leading a Lab: Strengthening Scientific Leadership in Responsible Research

A Workshop

December 4-5, 2023
National Academies Keck Center
500 Fifth Street, NW
Washington, DC

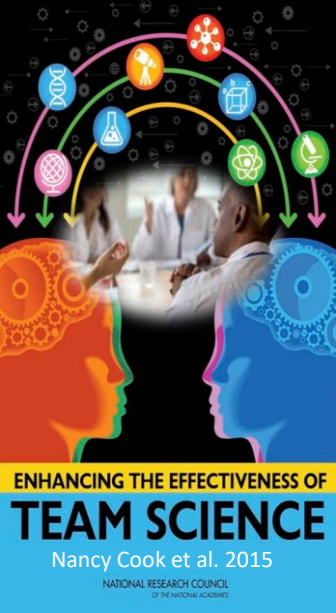
Brian Uzzi
Kellogg School of Management
Northwestern Institute on Complex Systems and Data Science
Northwestern University



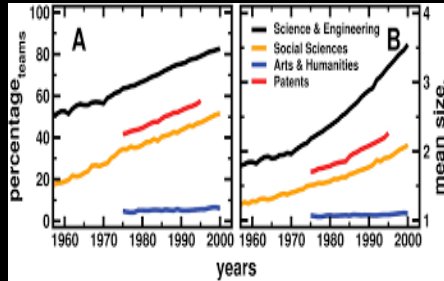
Team Science

Science of
Science Literature

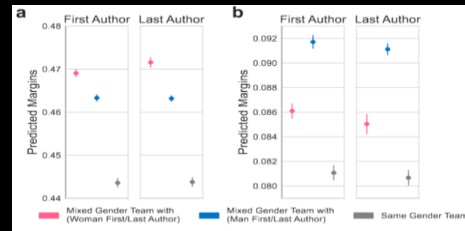
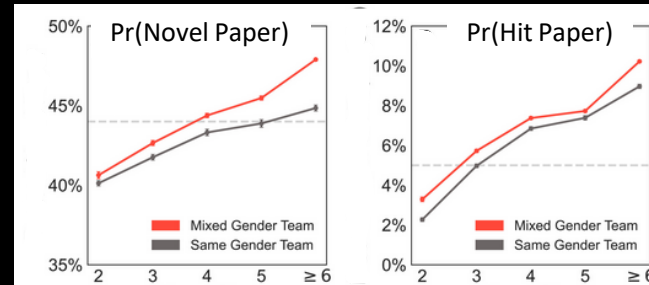
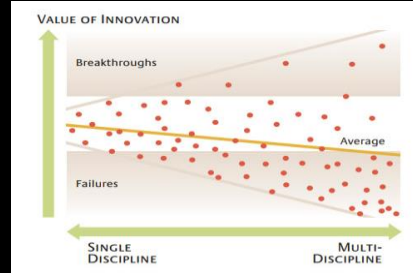
- Big Data (10s of Million teams)
- Observational Data Methods



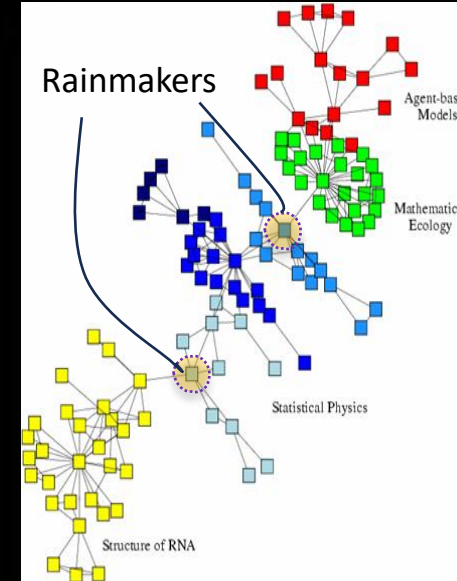
(1) Teams Dominate Knowledge Creation



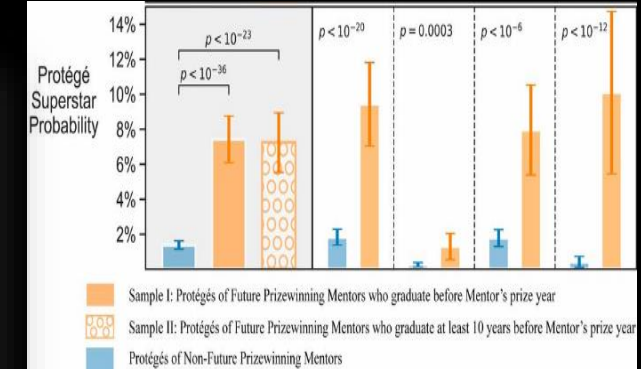
(2) Teams Prosper from Diversity



(3) Leadership Thrives On Networks



(4) Mentorship is linked to learning



References in note panel

Professional Development



- Most Professional Development programs employ academic Team Performance research
- Focus on performance boosting factors
 - Nearly 100 years of research with changing foci – Delegation -> Diversity -> DEI -> AI
 - Experimental and field Data on different types of teams (But, rarely science team studies)

4 Level Model of Team Effectiveness