

Yiling Lin

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EDUCATION	<i>PhD - Information Science</i>	2021 - Present
	University of Pittsburgh	
	<i>MA - Computational Social Sciences</i>	2019 - 2021
	University of Chicago	
	<i>BA - Management Science in Finance Engineering</i>	2014 - 2018
	Beijing Normal University	
WORKING EXPERIENCE	University of Pittsburgh	2021 Sep - Present
	Research Assistant, School of Computing and Information	
	University of Oxford	2021 Jun - Present
	Research Assistant, Future of Work programme	
	University of Chicago	2019 Nov - 2021 Jun
	Research Assistant, Knowledge Lab	
	Swarma (Beijing)	2018 Aug - 2019 Jun
	NLP Algorithm Researcher	
JOURNAL ARTICLES	Lin, Y. , Evans, J. A., & Wu, L.(2022). New Directions in Science Emerge from Disconnection and Discord. <i>Journal of Informetrics</i> , 16(1), 101234.	
WORKING PAPERS	Lin, Y. , Frey, C. B., & Wu, L. (2023). Remote Collaboration Fuses Fewer Break-through Ideas.	
	Risha, Z., Lin, Y. , Leahey, E., & Wu, L. (2023). Replacing the Renaissance Man: Are Teams More than the Sum of Their Parts?	
TALKS	<ul style="list-style-type: none">• 06/2023 International Conference on the Science of Science & Innovation (ICSSI), Northwestern University• 06/2022 International Conference on the Science of Science & Innovation (ICSSI), Washington, DC• 03/2022 Women in Data Science (WIDS), Boston (online)• 07/2021 International Conference on Computational Social Science (IC²S²), ETH (online)• 10/2021 Workshop on Natural Language Processing for Scientific Text (SciNLP), Irvine (online)• 07/2021 Speaker, Department of Information Management, Peking University.• 06/2021 Seminar, the Annual Interdisciplinary Graduate Conference, MAPSS and MACSS, University of Chicago.• 03/2021 Speaker, Institute for Software Research, Carnegie Mellon University.• 11/2020 Speaker, School of Information, University of Texas at Austin.	

- 11/2020 Speaker, Department of Communication, **Michigan State University**.
- 08/2020 Invited speaker, **Swarma Club-Kaifeng Academic Meeting**.

ACADEMIC SERVICE

Organizer

- Workshop of The Science of Team Science and Innovation, PittCSS, Pittsburgh, 2022

Reviewer

- Humanities and Social Sciences Communications, reviewer, 2023
- EPJ Data Science, reviewer, 2023
- Nature Human Behaviour, sub-reviewer, 2022
- PLOS One, sub-reviewer, 2021

PROJECTS

Journal Collaborative Filtering Recommendation

May 2020

Finished Paper: Where to submit your next paper? Journal embeddings to optimize impact through diverse outlets, **Yiling Lin**, Haochuan Cui, Lingfei Wu, James.A.Evans

- Defined the breadth of a scientist's audience group a scientist with pointwise mutual information.
- Discovered a relation between the breadth of a scientist's audience group and the impact of him/her.
- Implemented collaborative filtering recommendation on the next journal with journal embeddings(trained with Gensim-SGNS) trained on the sequence of publication records of scientists, and this recommendation system introduces unexploited and relevant journals to scientists.

Measuring Human Capital in Labor Market: How to be a valuable worker?

November 2019 - November 2020

Research Assistant: Quantifying Skill Dependency and Revealing Deskilling, Knowledge Lab, Uchicago (cooperate and work under the supervision of Prof. Lingfei Wu and Prof. James.A.Evans)

- Measured complementarity and substitutability of pairwise skills from the demand side based on the distance on co-occurrence association space and context space.
- Cross validated the meaning of complementarity and substitutability based on pointwise mutual information and conditional probability.
- Assisted in extracting and validating a positive correlation between the multiplication of complexity and utility and job salary.
- Identified and measured the institutional buffering and the social burden of workers with the index by controlling the co-founding variables: company recruitment size and working experience of workers.
- Measured two types of skills: cheese and berry, based on network science and explored the boundary of skills(a division of labor) along the hierarchy structure.

Discourse System Embeddings and Social Identity

April 2020 - June 2020

Finished project: Can narratives difference reveal people's class?– A zoom-in to the

stories of lower-class female laborers in China, **Yiling Lin**, Chengwei Wang

- Discovered a relatively positive job-value orientation of female laborers.
- Conveyed a difference between the discourse system of female laborers and that of mainstream culture which is associated with class by designing experiments to construct a discourse system of female laborers based on 2,000 scraped posts.
- Illustrated a twist of interpretation on a set of social imaginary between female laborers and mainstream culture. This set of social imagination is closely associated with historical events.

Disruption of the Pandemic on the Economical Life June 2020 - Present
Finished Project: The Impact of COVID-19 on Employment Satisfaction and Expectation Evidence from the Content Analysis of Five Industries on Glassdoor, Xiaofeng Li, **Yiling Lin**

- Discovered a shift in the orientation job of employees from pay-oriented to opportunity-oriented with 20,591 ratings of workers towards 51 companies across 5 fields scraped from Glassdoor.com spanning from September 2018 to June 2020.
- Conveyed an increasingly positive job-satisfaction orientation of employees during the pandemic.

**SKILLS
&
KNOWLEDGE**

Programming Languages: Python, Stata, Matlab, Sql, Processing.

Methodology: Network Science, NLP, Machine learning.