# JIN AI, PHD

Philadelphia, PA
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## RESEARCH INTERESTS

Science, Technology, & Innovation Policy | Philanthropy & Nonprofit |
Artificial Intelligence & Algorithmic Governance | Computational Social Science

## ACADEMIC APPOINTMENT

**University of Pennsylvania, School of Social Policy and Practice**
Postdoctoral Fellow in Data Science and Nonprofit Leadership, 2024-present

## EDUCATION

**Indiana University, Lilly Family School of Philanthropy**
Ph.D. in Philanthropic Studies, Minor in Economics, 2024

**Renmin University of China, School of Public Administration and Policy**
Master of Public Administration

**China University of Political Science and Law, School of Political Science and Public Administration**  Bachelor of Public Management, *Summa Cum Laude*

## PUBLICATIONS

### Peer-Reviewed

[5] Herzog, P.S., Ai, J., Osili, U., Clark, C., & Kou, X. (2023). Bibliometric Applications in Social Science Research: The Social Network Context of Generosity. *IntechOpen*. http://doi.org/10.5772/intechopen.112953

[4] Paarlberg, L.E., Ai, J., LePere-Schloop, M., & Walk, M. (2023). The Political Embeddedness of Voluntary Action: The Case of Local Philanthropic COVID-19 Relief Funds. *Administration & Society*. 55(7), 1402-1431. https://doi.org/10.1177/00953997231177217

[3] Herzog, P.S., Ai, J., & Ashton, J. (2022). Applying Bibliometric Techniques: Studying Interdisciplinarity in Higher Education Curriculum. *Computation*,10(2):26. https://doi.org/10.3390/computation10020026

[2] Paarlberg, L.E., LePere-Schloop, M., Walk, M., Ai, J., & Ming, Y. (2020). Activating Community Resilience: The Emergence of COVID-19 Funds Across the United States. *Nonprofit and Voluntary Sector Quarterly*, 49(6), 1119-1128. https://doi.org/10.1177/0899764020968155

[1] Zhang, T., Ai, J., & Han, P. (2017). The Development of Rational Online Participation Mechanisms from The Perspective of Risk Society Governance. *Modern Management Science* (Chinese Language), 2, 64-66. doi: 10.3969/j.issn.1007-368X.2017.02.021

**Non-Peer-Reviewed**

[5] **Ai, J.** (2023). How to Measure Novelty of Interdisciplinary Research? A Network Structural Approach. *International Society for Scientometrics and Informetrics. 19th International Conference on Scientometrics & Informetrics Proceedings: Volume 3*. https://doi.org/10.5281/zenodo.11163417

[4] Paarlberg, L.E. & **Ai, J.** (2023). The United Way, in K.P. Kearns & W.J.Wang (Eds), Elgar Encyclopedia of Nonprofit Management, Leadership and Governance, Edward Elgar Publishing Ltd. (Book Chapter)

[3] **Ai, J.,** Cart-Turner, L. Horning, C., & Paarlberg, L.E. (2021). Understanding Cooperation in the Face of Competition: Coopetitive Dynamics between Community Foundations and Local United Ways. https://hdl.handle.net/1805/26481. (Preprint)

[2] Paarlberg, L.E., LePere-Schloop, M., Horning, C., & **Ai, J.** (2020). The Landscape of Community Philanthropy: Navigating Relationships between Local United Ways and Community Foundations. http://hdl.handle.net/1805/25309. (Technical Report)

[1] Zhang, Y. & **Ai, J.** (2016). 2016 Observation Report on China's Third Sector: Resource-Reputation Exchange Theory and Its Application in Nonprofit-Corporate Collaboration. New Jersey, US: Huamin Research Center, Rutgers University. (Technical Report)

## WORKING PAPERS

**Constructing the Field of Philanthropic and Nonprofit Studies Using Large Language Models** with Rich Steinberg, Chao Guo, and Filipi Silva [R&R]

**Modeling Research Novelty Using Network Science: Typology and Metrics** with Rich Steinberg, Chao Guo, and Filipi Silva [Final Drafting]

**AI-Powered Nonprofits: Emerging Landscape and Leadership Implications** [Data Analyzing]

**Linking Funding Landscapes: A Comparative Study of Global Science Funding** with Filipi Silva and Jacob Dalsgaard [Data Analyzing]

**Philanthropy Funding and Science Advances** with Filipi Silva, Jacob Dalsgaard, and Charlotte Ren [Data Analyzing]

**Nonprofit Interventions on AI Policy: Participation, Focus, and Effectiveness** with Sara Abdulla [Data Analyzing]

## FUNDED GRANTS

**Student P.I.**, combined **$4,950** grant for dissertation research - Finding Novel Ideas in Philanthropic Studies. Issued by *Ph.D. Block Research Grant* ($2,250), *Emily Book Fund* ($1,200), and *Student Travel Grant* ($1,500) at Indiana University, Lilly Family School of Philanthropy, 2021-24.

## FELLOWSHIPS AND AWARD

CSS Fellow, The Summer Institutes of Computational Social Science (SICSS-PENN), 2024
Dickenson-Stone-Ilchman Fellow ($3,000 awards), Indiana University, 2021-23

Doctoral Dissertation Fellowship, ARNOVA, 2020
Graduate Diversity Scholars & Leaders Program, ARNOVA, 2018-20
University Travel Fellowship Award ($2,350), Indiana University, 2021-23
Graduate & Professional Educational Grant ($2,500), Indiana University, 2019-23
Honored Graduate Students (Top 3%), Beijing Municipal Education Commission, 2014
Outstanding Student Leader (Top 1%), Beijing Municipal Education Commission, 2014
Innovative Research Scholarship (Top 5%), China Univ. of Political Science and Law, 2013

## CONFERENCE PRESENTATIONS (SELECTED)

**2025**    Nonprofit Interventions on AI Policy: Participation, Focus, and Effectiveness. American Society for Public Administration (**ASPA**), Mar 2025. Washington, DC. (with Abdulla, S.)

**2024**    What Does AI Tell Us about the field of Philanthropic and Nonprofit Studies? Association for Research on Nonprofit Organizations and Voluntary Actions (**ARNOVA**), November 2024. Washington, DC. (with Steinberg, R., Guo, C., and Silva, F.N.)

Network Approach to Research Novelty: Typology and Metrics. International Society for Computational Social Science (**IC²S²**), July 2024. Philadelphia, PA. (with Silva, F.N., Guo, C. and Steinberg, R)

Mapping Philanthropic Studies Using Natural Language Processing. **IC²S²**, July 2024. Philadelphia, PA. (with Silva, F.N., Steinberg, R., and Guo, C.)

Network Approach to Research Novelty: Typology and Metrics. International Conference for Science of Science and Innovation (**ICSSI**), July 2024. Washington, DC. (with Silva, F.N., Guo, C. and Steinberg, R)

**2023**    Knowledge Evolution in Philanthropic and Nonprofit Studies: A Novelty Perspective. **ARNOVA**, November 2023. Orlando, FL.

The State of Nonprofit Research in East Asia: A Bibliometric Analysis. **ARNOVA-Asia** (Virtual), July 2023. Tokyo, Japan. (with Guo, C. and Zhang, Z.)

How to Measure Novelty of Interdisciplinary Research? A Network Structural Approach. Intl. Society for Scientometrics and Informetrics (**ISSI**), July 2023. Bloomington, IN.

**2022**    Information Flow: Novel Citation Networks in Interdisciplinary Research. **ARNOVA**, November 2022. Raleigh, NC.

The Multidimensional Contagion of Volunteering Between Adult Siblings. **ARNOVA**, November 2022. Raleigh, NC. (with Konrath, S., and Handy, F.)
*\*Nominated for the ARNOVA Best Conference Paper Award*

The Multidimensional Contagion of Volunteering: The Spread of Volunteering Behaviors and Psychological Factors. Science of Philanthropy Initiative (**SPI**), September 2022. Indianapolis, IN. (with Konrath, S., and Handy, F.)

The Development of Network Theorizing. Network Science Society (**NetSci**) (Virtual),

July 2022. Shanghai, China.

**2021**    Understanding Cooperation in the Face of Competition: Coopetitive Dynamics Between Community Foundations and Local United Ways. **ARNOVA**, November 2021. Atlanta, GA. (with Cart-Turner, L.G., Paarlberg, L.E., and Horning, C.)

Understanding Multifaceted Inter-Organizational Roles of Community Philanthropic Organizations during the COVID-19 Pandemic through the Lens of Semantic Relationships. Networks 2021: A Joint **Sunbelt** (International Network for Social Network Analysis) and **NetSci** (Virtual), July 2021. Bloomington, IN.

**2019**    The Effect of Proximity on Mission Convergence: The Case of the Local United Ways and Community Foundations. **ARNOVA,** November 2019. San Diego, CA. (with Paarlberg L.E. and LePere-Schloop, M.)

Adaptation in Community Philanthropy: Mission Orientation of Local United Ways and Community Foundations. West Coast Nonprofit Data Conference **(WCND)**, April 2019. Phoenix, AZ. (with Paarlberg, L.E. and LePere-Schloop, M.)

# TEACHING EXPERIENCE

### University of Pennsylvania (UPenn)

**Instructor**, School of Social Policy and Practice, UPenn. Spring 2025.
NPLD 7890: AI & Emerging Technologies for Nonprofits. Online.
NPLD 7860 (**Co-Instructor**): Strategic Management and Leadership of Nonprofits. In-person.

### Indiana University (IU)

**Co-Designer**, Lilly Family School of Philanthropy, IU.
PHST 555: Do No Harm: Grantmaking for Good. 2024.
PHST 530: Economics & Philanthropy. 2023.
PHST 555: Building Board Culture. 2023.
Certificate Program at The Fund Raising School. *"Using Data for Good"* Executive Education Workshop. 2023.

**Teaching Assistant (Lecturer Experience)**, Lilly Family School of Philanthropy, IU
PHST 210: Philanthropy and the Social Sciences. In-person. 2023 & 2021.
PHST 201: Introduction to Philanthropic Studies. In-person. 2022.
PHST 524: Civil Society in Comparative Perspective. In-person. 2022.
PHST 530: Data for Good. Online. 2022.
PHST 370: Learning by Giving. In-person. 2022.

**Teaching Assistant,** Lilly Family School of Philanthropy, IU
PHST 532: Applying Ethics in Philanthropy. Online. 2018.
PHST 401: Ethics & Values of Philanthropy. In-person. 2018.
PHST 530: Philanthropy Ethics East & West. Hybrid. 2017.

# INVITED TALKS

**Workshop Speaker**, University of Pennsylvania, School of Social Policy & Practice, Nonprofit

Leadership Program. *Lunch & Learn Workshop*: *AI & Technology for Nonprofits*. 2024.

**Guest Lecturer**, Wheaton College, HDI 554: *Monitoring, Evaluation, and Learning for NGOs.* Lecture on interpreting statistics in quantitative nonprofit research, followed by a Q&A session with ~20 students. Presented in collaboration with the course instructor, 2020.

## SKILLS

**Language**: Mandarin Chinese, English.
**Programming Language**: Python, RStudio, SQL.
**Others**: Adobe Illustrator, High-performance Computing (HPC), LaTeX.

## ACADEMIC AND VOLUNTEER SERVICE

**Reviewer**, *Nonprofit and Voluntary Sector Quarterly*, *Nonprofit Management & Leadership, Academy of Management Conference Proceedings*, *International Conference of Computational Social Science, Emotions.*

**Committee Service**, Student representative at the Academic Programs Assessment Committee, IU Lilly Family School of Philanthropy. 2020-22.

**Conference Panel Chair**, ARNOVA. 2018, 2021-23.

**Workshop Organizer,** Philanthropy Research Workshop, IU Lilly Family School of Philanthropy.2019.

**Symposium Coordinator,** The International Symposium on Philanthropy and Commerce, China Institute for Philanthropy and Social Innovation, Renmin University of China, Beijing, China, 2018.

## PROFESSIONAL MEMBERSHIPS

Association for Research on Nonprofit Organizations and Voluntary Actions (ARNOVA)
American Society for Public Administration (ASPA)
International Society for Computational Social Science (IC²S²)
International Society for Scientometrics and Informetrics (ISSI)