

YANG YANG

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PROFESSIONAL EXPERIENCE

Assistant Professor School of Information Studies, Syracuse University	Aug 2020 – Now Syracuse, NY
Research Assistant Professor Kellogg School of Management, Northwestern University	Dec 2017 – Aug 2020 Evanston, IL
Postdoctoral Fellow NICO, Northwestern University	Sept 2015 – Dec 2017 Evanston, IL

EDUCATION

University of Notre Dame Department of Computer Science and Engineering PhD	Notre Dame, IN August 2010 - May 2015
Nanjing University Bachelor of Science in Software Engineering	Nanjing, China 2003 - 2007

PUBLICATIONS

Yang, Yang, Youyou Wu, and Brian Uzzi. 2020. “Estimating the 'Deep-Replicability' of Scientific Findings Using Human and Machine Intelligence.” *Proceedings of the National Academy of Sciences* 117 (20) 10762-10768.

Yang, Yang, Adam Pah, and Brian Uzzi. 2019. “Quantifying the Future Lethality of Terror Organizations.” *Proceedings of the National Academy of Sciences* 116 (43) 21463-21468.

Yang, Yang, Nitesh V. Chawla and Brian Uzzi. 2019. “A network’s gender composition and communication pattern predict women’s leadership success.” *Proceedings of the National Academy of Sciences* 116 (6) 2033-2038.

Sibel Kusimba, **Yang Yang**, and Nitesh V. Chawla. 2016. “Hearthholds of Mobile Money in Kenya.” *Economic Anthropology* 3 (2), 266-279.

Ashwin Bahulkar, Boleslaw Szymanski, Omar Lizardo, Yuxiao Dong, **Yang Yang**, Nitesh V. Chawla. 2016. “Analysis of link formation, persistence and dissolution in NetSense data.” *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* pp. 1197-1204.

Yang, Yang, Ryan N. Lichtenwalter, and Nitesh V. Chawla. 2015. “Evaluating Link Prediction

Methods.” *Knowledge and Information Systems* 45 (3), 751-782.

Yuxiao Dong, Jie Tang, Nitesh V. Chawla, Ttancheng Lou, **Yang Yang**, and Bai Wang. 2015. “Inferring social status and rich club effects in enterprise communication networks.” *PLoS one* 10 (3), e0119446.

Sibel Kusimba, **Yang Yang**, and Nitesh V. Chawla. 2015. “Family networks of mobile money in Kenya.” *Information Technologies & International Development* 11 (3), pp. 1-21.

Y. Dong, R. Johnson, **Yang Yang**, and Nitesh V. Chawla. 2015. “Collaboration Signatures Reveal Scientific Impact.” *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* pp. 480-487.

Yang, Yang, Nitesh V. Chawla, and Yuxiao Dong. 2014. “Predicting Node Degree Centrality with the Node Prominence Profile.” *Scientific reports* 4, 7236.

Yuxiao Dong, Yang Yang, Jie Tang, **Yang Yang**, and Nitesh V. Chawla. 2014. “Inferring User Demographics and Social Strategies in Mobile Social Networks.” *Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining* pp. 15-24.

Yang, Yang, Nitesh V. Chawla, Prithwish Basu, Bhaskar Prabhala, and Thomas La Porta. 2013. “Link Prediction in Human Mobility Networks.” *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* pp.380-387.

Yang, Yang, Nitesh V. Chawla, Xiaohui Lu, and Sibel Adali. 2013. “Prominence in Networks: A Co-evolving process.” *IEEE 2nd Network Science Workshop (NSW)* pp. 58-65.

Saurav Pandit, Jonathan Koch, **Yang Yang**, Nitesh V. Chawla, and Brian Uzzi. 2013. “Red Black Network: Temporal and Topological Analysis of Two Intertwined Social Networks.” *MILCOM 2013-2013 IEEE Military Communications Conference* pp. 719-724.

Yang, Yang, Nitesh V. Chawla, Yizhou Sun, and Jiawei Han. 2012. “Predicting links in multi-relational and heterogeneous networks.” *IEEE 12th International Conference on Data Mining* pp. 755-764.

Saurav Pandit, **Yang Yang**, and Nitesh V. Chawla. 2012. “Maximizing Information Spread Through Influence Structures in Social Networks.” *DAMNet Workshop, IEEE 12th International Conference on Data Mining* pp. 258-265.

Reid Johnson, **Yang Yang**, Everaldo Aguiar, Andrew Rider, and Nitesh V. Chawla. 2012. “ALIVE: A Multi-Relational Link Prediction Environment for the Healthcare Domain.” *Pacific-Asia Conference on Knowledge Discovery and Data Mining* pp. 36-46.

Saurav Pandit, **Yang Yang**, Vikas Kawadia, Sameet Sreenivasan, and Nitesh V. Chawla. 2011. “Detecting Communities in Time-evolving Proximity Networks.” *IEEE Network Science Workshop* pp. 173-179.

Yang, Yang, Yizhou Sun, Saurav Pandit, Nitesh V. Chawla, and Jiawei Han. 2011. “Is Objective

Function the Silver Bullet? A Case Study of Community Detection Algorithms on Social Networks.” *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)* pp. 394-397.

WORKING PAPERS

Yang, Yang, Teresa Woodruff, Yuan Tian, Benjamin Jones, Brian Uzzi “Gender Diverse Teams Produce More Innovative and Influential Ideas in Medical Research.” *Submitted to JAMA*.

Tian, Yuan, **Yang Yang**, Adam Pah, Brian Uzzi. “Evidence that news coverage on intensifying terrorist organizations’ future lethality.” *Submitted to PNAS*.

Medya, Sourav, Mohammad Rasoolinejad, **Yang Yang**, Brian Uzzi. “Identifying Stock Price Movements from Earnings Call.” *Submitted to WWW*.

WORK IN PROGRESS

“A Topic-wise Machine Learning Framework for Innovation in Speeches and Writings.” with Chuxu Zhang. *Data Analysis*.

“A Machine Learning Framework for Estimating Reproducibility of Top Psychology Publications over the Past 20 Years.” with Youyou Wu and Brian Uzzi. *Data Analysis*.

“Estimating the Earnings Management based on Corporate’s Earnings Call Transcripts.” *Data Analysis*.

“Media and Public Perception to Science.” with Benjamin Jones, Brian Uzzi and Yuan Tian. *Draft Preparation*.

RESEARCH GRANTS

Mobile Money and Coming of Age in Western Kenya, Bill and Melinda Gates Foundation, 2014, No. OPP1031657 **subcontract** with Professor Sibel Kusimba

Conflict Mapping for Women as Agents of Peace in South Sudan, AVSI Foundation-South Sudan, 2017, **consultant**

TALKS

“Gender Diverse Teams Produce More Innovative and Influential Ideas in Medical Research.” NBER Workshop on the Science of Science Funding, July 2021

“A network's gender composition and communication pattern predict women's leadership success.”
INFORMS Annual Meeting (Seattle), October 2019

- “Media and Public Perception to Science”
INFORMS Annual Meeting (Seattle), October 2019
- “The Replicability of Scientific Findings Using Human and Machine Intelligence”
INFORMS Annual Meeting (Seattle), October 2019
- “The Replicability of Scientific Findings Using Human and Machine Intelligence”
Metascience Symposium (Stanford University), September 2019
- “The Replicability of Scientific Findings Using Human and Machine Intelligence”
Academy of Management Annual Meeting (Boston), August 2019
- “A network's gender composition and communication pattern predict women's leadership success.”
NetSci Annual Meeting (Vermont), May 2019
- “Quantifying the Future Lethality of Terror Organizations.”
NetSci Annual Meeting (Vermont), May 2019
- “AI + Mind Partnership and the Reproducibility Problem in Science.”
Computational Sociology Workshop (Philadelphia) Aug 2018
- “Social Networks Predict Placement in Leadership Positions: A Gender Perspective.”
Academy of Management Annual Meeting (Chicago), Aug 2018
- “Quantifying the Future Lethality of Terror Organizations.”
4th International Conference on Computational Social Science (Chicago), July 2018
- “The Inner Circles of Women’s Networks Predict their Job Attainment in Leadership Positions.”
NetSci Annual Meeting (Indianapolis), June 2017
- “The Global Terrorism Network: Power Law Foundations of System Behavior.”
2nd International Conference on Computational Social Science (Chicago), July 2016
- “The Formation and Imprinting of Network Effects Among the Business Elites.”
2nd International Conference on Computational Social Science (Chicago), July 2016

PROFESSIONAL SERVICES

Associate Editor of Frontiers in Big Data	2020-2021
Program Committee Member of ECML-PKDD	2020
Program Committee Member of AAI Conference	2016-2018
Program Committee Member of BigDataSE	2015-2018
Reviewer of Proceedings of the National Academy of Sciences	2019
Reviewer of Science Advances	2019
Reviewer of Nature Scientific Reports	2017-2018
Reviewer of TNNLS (Transactions on Neural Networks and Learning Systems)	2016-2019

Reviewer of TKDE (IEEE Transactions on Knowledge and Data Engineering)	2015-2016
Reviewer of TKDD (ACM Transactions on Knowledge Discovery from Data)	2015
Reviewer of DMKD (Data Mining and Knowledge Discovery)	2014-2021

REFEREES

Brian Uzzi

Co-director of Northwestern Institute on Complex Systems, director of KACI
Richard L. Thomas Professor of Leadership and Organizational Change
Kellogg School of Management
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Benjamin F. Jones

Director of KIEI
Gordon and Llura Gund Family Professor of Entrepreneurship, Professor of Strategy
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Nitesh V. Chawla

Founding Director of the Lucy Family Institute for Data and Society, director of CNDS
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Omar Lizardo

Co-Editor, American Sociological Review
Co-founder and Contributor, Culturecog Blog
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