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Position:

2015-Present MSU Foundation Professor of Sociometrics

2007-Present Professor, Counseling, Educational Psychology and Special Education, College of Education; and Fisheries and Wildlife, College of Agriculture, Michigan State University

2001-2006 Associate Professor, Counseling, Educational Psychology and Special Education, College of Education; Fisheries and Wildlife, College of Agriculture, Michigan State University

1994-2000 Assistant Professor, Counseling, Educational Psychology and Special Education, College of Education, Michigan State University

Education:

Sept 1988 - Dec 1993 University of Chicago Department of Education, program in Measurement, Evaluation, and Statistical Analysis, Ph.D.

1986-1988 University of Michigan School of Education, program in Higher and Adult Continuing Education. Masters of Arts.

1981-1985 University of Michigan. Major in Statistics and English, Bachelor of Arts.

Publications (broken down by research strand at https://www.msu.edu/~kenfrank/research.htm)

Google scholar citations (as of 10-16-2018). 8532 total citations, h-index of 46.

(90 total in peer review journals)

Guest Editorships (proposals accepted).

#Cloud2Class: Reinventing the Study of Teacher Professionalism, Knowledge, and Practice in the 21st Century. Accepted Proposal for a Special Issue of the Teachers College Record

#Cloud2Class: The Disruption and Reorganization of Access and Use of Educational Resources in the 21st Century. Accepted Proposal for a Special Issue of the American Journal of Education

Articles in Peer Review Journals

Resubmitted:

Sheila M.W. Reddy,*, Kaitlin Torphy, Yuqing Liu, Tingqiao Chen, Yuta J. Masuda, Jonathan R.B. Fisher, Sarah Galey, Kyle Burford, **Kenneth A. Frank**, Jensen R. Montambault. Intra-organizational Diffusion of Professional Practices for Solving Sustainability Problems. Resubmitted to Organization and Environment.

2019

Frank, K.A., Lo, Y., Booth, G.G., Kallunki, J.P. (2019). The Market Dynamics of Socially Embedded Trading. *Rationality and Society.* Vol 3(2): 153-181.

Chung, M.G., Herzberger, A., **Frank, K.A.**, Liu, J. (Accepted) ."International Tourism Dynamics in a Globalized World: A Social Network Analysis Approach. *Journal of Travel Research*

Herzberger, A., Chung, M.G., Kapsar, K., **Frank, K.A.**, Liu, J. (Accepted). "Telecoupled food trade affects pericoupled trade and intracoupled production." *Sustainability*.

Guthrie, A.G., Taylor, W.W., Muir, A.M., **Frank, K.A.**, Regier, H.A. (accepted). The role of a binational organization in developing ecosystem-based management in the Great Lakes basin. *.Aquatic Ecosystem Health & Management*

Kim, S., Wallsworth, G., Xu, R., Schneider, B., **Frank, K. A.**, Jacob, B., & Dynarski, S. (2019). The Impact of the Michigan Merit Curriculum on High School Math Course-Taking. *Educational Evaluation and Policy Analysis*, June 2019, Vol. 41, No. 2, pp. 164–188.

2018

Frank K.A., Lo Y., Torphy K., Kim J. (2018) Social Networks and Educational Opportunity. pp 297-316 in Schneider B. (eds) *Handbook of the Sociology of Education in the 21st Century*. Handbooks of Sociology and Social Research. Springer, Cham.

***Frank, K.A**., and *Xu, Ran. (2018) Implementation of Evidence Based Practice in Human Service Organizations: Implications from Agent-Based Models. *Journal of Policy Analysis and Management*. 37(4): 4867-895. *Co-equal first authors.

***Frank, K.A.** and *Xu, Ran. (forthcoming). Causal Inference for Social Network Analysis. James Moody and Ryan Light editors. Oxford Handbook of Social Network Analysis. Oxford, UK.

* Co equal first authors.

Masuda, Yuta J., Liu, Y., Reddy, S.M.W., **Frank, K.A.**, Burford, K. (2018). Informal boundary spanners for intraorganizational innovation diffusion for sustainability. *Nature: Sustainability*, 1: 190-197. http://rdcu.be/Kre4

Minor, E., Saw, G., **Frank, K.A.**, Schneider, B., and Torphy, K (accepted). "External Contextual Factors and Teacher Turnover: The Case of Michigan High Schools." *Teachers' College Record*.

Kim, Chong Min, **Frank, K.A.**, and James P. Spillane. (2018). "Relationships among Teachers' Formal and Informal Positions and Their Incoming Student Composition." *Teachers College Record* 120(3).

Penuel, W., Lin, Qinyun, **Frank, K.A.** (2018). Building Networks to Support Effective use of Science Curriculum Materials in the *Carbon TIME* Project" for *Networked by Design: Interventions for Teachers to Develop Social Capital* edited by Susan A. Yoon and Kira J. Baker-Doyle. Routledge.

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Kim, J., Youngs, P. and **Frank, K**., 2017. Burnout contagion: Is it due to early career teachers' social networks or organizational exposure?. Teaching and Teacher Education, 66, pp.250-260.

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2016

Xu, R, and **Frank, K. A.** (2016). The Implications for Network Structure of Dynamic Feedback between Influence and Selection. In *International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction*. Springer International Publishing.

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Frank, K.A., Penuel, W.R. and Krause, A., 2015. What Is A "Good" Social Network For Policy Implementation? The Flow Of Know-How For Organizational Change. *Journal of Policy Analysis and Management*, *34*(2), pp.378-402.

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Jaeger-Miehls, A. L., Mason, D. M., **Frank, K.A.**, Krause, A. E., Peacor, S.D., and Taylor, W.W. 2009. Invasive species impacts on ecosystem structure and function: A comparison of the Bay of Quinte, Canada, and Oneida Lake, USA, before and after zebra mussel invasion. *Ecological Modeling*. *Vol* 220 (22): 3182-3193

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2008

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Mueller, Katrina B., Taylor, William W., **Frank, K. A**., Robertson, John M. and Dennis L. Grinold 2008. "Social Networks and Fisheries: the Relationship between a Charter Fishing Network, Social Capital and Catch Dynamics." *North American Journal of Fisheries Management*. Vol 28(2): 447-462.

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2007

Barrett, Jennifer; Pearson, Jennifer; Muller; Chandra; **Frank, K.A.** 2007. "Adolescent Religiosity and School Contexts**"** *Social Science Quarterly*, Vol 88(4): 1024-1037.

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2006

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*Field, S. ***Frank, K.A.**, Schiller, K, Riegle-Crumb, C, and Muller, C. 2006. "Identifying Social Contexts in Affiliation Networks: Preserving the Duality of People and Events. *Social Networks* 28:97-123. * co first authors.

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2004

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Book Chapters (20)

Penuel, W. R., Lin, Q., Marshall, S., Anderson, C.W., **Frank, K.A**. (2018). "Networked by Design: Interventions for Teachers to Develop Social Capital" in Building Networks to Support Effective use of Science Curriculum Materials in the *Carbon TIME* Project" edited by Susan A. Yoon and Kira J. Baker-Doyle.

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Frank, K. A**.** and Zhao, Y. 2005. "Subgroups as a Meso-Level Entity in the Social Organization of Schools." Chapter 10, pages 279-318. *Social Organization of Schools.* Book honoring Charles Bidwell's retirement, edited by Larry Hedges and Barbara Schneider. New York: Sage publications.

Zhao, Y., **Frank, K.,** & Ellefson, N. 2006. Fostering Meaningful Teaching and Learning with Technology pages 161-179 in Floden R. & Ashburn, E. (Eds.). M*eaningful Learning Using Technology What Educators Need to Know and Do.* Teachers College Press.

Wellman, B.A. and **Frank**, K.A. 2001. "Network Capital in a Multi-Level World: Getting Support from Personal Communities." In *Social Capital*, edited by Nan Lin, Ron Burt and Karen Cook.. Chicago: Aldine De Gruyter. http://www.chass.utoronto.ca/%7Ewellman/publications/networkcapital/hlmnan10.pdf

Frank, K. A. 1995. "Exploring Interrelated Structures: A System Based on p_1 and Influence Models." Proceedings of the International Conference on Social Networks, London England. *Vol* 1, *Methodology*, edited by M. Everett, and K. Rennolls, K. London: University of Greenwich Press.

Bryk, A.S. & **Frank**, K.A. 1991. "The Specialization of Teachers' Work: An Initial Exploration." In *Schools, Classrooms, and Pupils*, edited by S.W. Raudenbush, S. W., and J.D. Willms. New York: Academic Press (Harcourt Brace Jovanovich).

Book Review

Frank, K.A., Saw, G., and Xu, Ran. 2017. Review of Causality in a Social World by Guanglei Hong for Observational Studies.

Grants

2018-2021	Understanding Impacts of Social Network Interventions on Engineering Project Outcomes ($414,710. NSF. Award # 1825678. Co-PI. Sinem Mollaoglu-Scott PI).
2017-2018	AERA. Conference on Teachers' use of Social Media. ($40,000;Co-PI, Chris Greenhow PI).
2017-2018	CBSA intramural grant to study Teachers' use of Social Media. ($25,000, PI).
2017	NSF supplement: How Novice Elementary Teachers' Social Networks Affect Ambitious Math Instruction in the Current Evaluation Climate (PI. $344,186. NSF DRL-1420532)
2017-2020	Antecedents of Complexity in Healthcare Routines. NSF (Co-PI. Brian Pentland PI. $397,726).
2016-2017	Renewal: Study of the Diffusion of Evidence Based Practices through Networks within the Nature Conservancy. (PI, $10,000. The Nature Conservancy).

2015-2018 Great Lakes Integrated Sciences and Assessments Center (Co-PI. $483,000 NOAA. Jeff Andresen, PI)

2015 Study of the Diffusion of Evidence Based Practices through Networks within the Nature Conservancy. (PI, $9,473. The Nature Conservancy).

2014-2017 How Beginning Elementary Teachers' Social Networks Affect Ambitious Math Instruction in the Current Evaluation Climate. (PI. $600,000 WTGrant).

2014-2017 How Novice Elementary Teachers' Social Networks Affect Ambitious Math Instruction in the Current Evaluation Climate (PI. NSF DRL-1420532 $1,600,600)

2014-2019 Sustaining Responsive and Rigorous Teaching Based on Carbon TIME (Co-PI. NSF RC104101 $6,968,640).

2012-2014 Great Lakes Integrated Sciences and Assessments Center (Co-PI. 1.2 Million NOAA, Tom Dietz PI)

2012-2017 Investigating and Supporting the Development of Ambitious and Equitable Mathematics Instruction at Scale ($160,356,NSF, subaward from Vanderbilt, Paul Cobb PI, ESI-0554535 and No. DRL-0830029).

2012-2017 Measuring Complex STEM Thinking using Epistemic Network Analysis ($212,000 subaward for $2.5M grant, David Williamson Schafer PI. NSF1247262)

2010-2015 Institute for Educational Sciences (Co-PI. $1.7 Million subward for 6 million, Brian Jacob Pi). The Impact of the Michigan Merit Curriculum and Michigan Promise Scholarship on Student Outcomes. Equal PI with Barbara Schneider, in collaboration with Brian Jacobs and Susan Dynarski, University of Michigan

2010-2011 Great Lakes Climate Change Science & Education Systemic Network. (subaward for $180,000 National Science Foundation).

2009-2011 Designing Learning Organizations for Instructional Improvement in Mathematics (subaward Vanderbilt University, primary grantor National Science Foundation): ($110,000).

2009-2011 Evaluation of the National Writing Project (SRI International, primary grantor IES): ($30,000).

2009-2010 The Forum For Youth Investment (primary grantor, WT Grant): ($35,000). Evaluation of Youth Program Quality Intervention Trial.

2009 Fulbright specialists ($15,000). Turku Finland. Social Networks consulting and lectures.

2008-2009 The Forum for Youth Investment (primary grantor, WT Grant): ($35,000). Evaluation of Youth Program Quality Intervention Trial.

2006-2010 PI; NSF: Human and Social Dynamics: ($750,000): To Study the Implementation of Practices Related to No Child Left Behind. Ken Frank and William Penuel PI. l 0624307 / 0624284

2006-2008 Co-Investigator; Carnegie ($385,000): Study of Teacher Retention and Student Learning In Urban Michigan Districts. Peter Youngs PI.

2006-2007 PI. Spencer Foundation ($15,781). Conference: Research Exchange on Teacher Networks.

2003-2007 PI; SRI ($80,000 + $15,000 supplement): Social Capital and the Implementation of Technology and other Reforms in Schools. NSF original funder, with William Penuel PI.

2004-2005 PI; Michigan Sea Grant ($15,000) to investigate dissemination trajectories from researchers to end-users of fisheries.

2001-2006 Co-Investigator: National Institute of Child Health and Human Development (1R01HD040428-01 -- total costs $3,641,232) to develop social network measures of peer influences in the Adolescent Health Data set and link them to schooling outcomes and make them more available to the research community. Chandra Muller PI.

2002–2004 Co-Investigator. National Science Foundation ($300,000). Link the Adolescent Health Data Set to school curricula and course-taking patterns. Chandra Muller PI.

2001 PI; Michigan State Outreach ($10,000) to study how social community service organizations can identify, tap, and extend social capital as they implement programs and respond to community needs.

1999-2000 PI; National Academy of Education/Spencer Foundation Postdoctoral Fellowship ($45,000) to study the emergence of school community during the diffusion of innovations.

1999 PI; Social Capital Interest Group at Michigan State University to study how community in schools emerges as teachers cultivate social capital with one another ($9,000).

1997 PI; Michigan State College of Education ($3,000) in-house grant to conduct simulations regarding estimation of effects through a social network.

Student placements

Wei Pan (advisor)	Duke University	Associate professor
Ben Kelcey (advisor)	University of Cincinnati	Associate professor
Min Sun (advisor)	University of Washington	Associate professor
Maroulis, Spiro (post-doctoral advisor)	Arizona State University	Associate professor
Steven Sheldon (advisor)	Johns Hopkins	Associate professor
Anna Strassman Mueller (committee member and mentor)	University of Chicago	Assistant professor

Yasuo Miyazaki (advisor)	Virginia Tech	Associate professor
Yang, Mengli (advisor)	Nan-Tai Institute of Technology, Taiwan	Research associate
Vanessa Keesler (co-advisor)	Michigan department of education	Deputy superintendent
Ann Krause (post-doc supervisor)	University of Toledo (now independent)	Assistant professor
Yun-jia Lo (advisor)	University of Michigan (now independent)	Post-doctoral researcher
Leslie Pearlman (advisor)	EDUCAUSE	Psychometrician
Chong Min Kim (advisor)	Gyeongin National University, Korea	Associate professor
Jihyun Kim (advisor)	Lehigh University	Assistant professor
Kaitlin Torphy (advisor)	Michigan State University	Lead Researcher and Founder of the Teachers In Social Media Project
Youngmi Lee (post-doctoral advisor)	Kyonggi University, Korea	Assistant professor
Kyung Seok Min (advisor)	Sejong University, Korea	Professor
John Lane (post-doctoral supervisor)	Michigan State University	Research associate
Sihua Hu (post-doctoral supervisor)	Northwestern University	Research associate
Tenglong Li (advisor)	Boston University	Post-doctoral researcher

Organizing/Service:

2016-current: co-chair of the College of Education Equity and Inclusion Committee.

Reviews:

I have reviewed manuscripts for the *Journal of the American Statistical Association, American Journal of Sociology*, *American Sociological Review, Journal of Educational and Behavior Statistics*, *Sociology of Education*, *American Educational Researchers Journal, Research on the Sociology of Organizations*, *American Journal of Education*, *Teachers'*

College Record, *Educational Researcher*, *Sociological Forces*, *Social Networks*, *Sociological Methods and Research*, and *Educational Evaluation and Policy Analysis.* I have also reviewed for the National Institutes of Health.

Editorial Boards: Associate Editor *Ecology and Society*, 2009-2011. Member of the editorial board of the *American Journal of Sociology* (2002-2003) as a consulting editor. *Sociology of Education* (2001-2002; 2006-2007). *Education, Evaluation and Policy Analysis* (2001-2002). Student editorial board for the *American Journal of Education* (1991).

Recognition and Awards:

2009	Fulbright Specialist.
1999-2000	National Academy of Education/Spencer Foundation Post-doctorate Fellow.
1999	Nominated by my department for the University Teacher/Scholar Award.
April, 1992	Semi-finalist, national Spencer Foundation Dissertation Fellowships.
April, 1992	Nominated by The Department of Education for The University of Chicago's Harper Dissertation Fellowship.
1988 - 1992	Doctoral Fellowship from The University of Chicago.

Professional memberships:

Current American Educational Research Association, Division D and Rasch Special Interest Group. American Sociological Association. International Social Networks Association.

SYNERGISTIC ACTIVITIES

1) Dr. Frank has developed an algorithm for identifying cohesive subgroups and for embedding subgroup boundaries in a sociogram. This work has appeared in the *American Journal of Sociology*, *Sociology of Education*, *Research in Sociology of Education and Socialization*, *Social Networks*, *American Journal of Community Psychology*, and the *Journal of Education for Students at Risk*.

2) Dr. Frank was a Co-Investigator on the NSF-funded *Science Achievement and Health Behavior: High School Curriculum, Social Context, and Opportunity to Learn* (REC-0126167), which examined the effects of the mathematics and science course experiences of high school students in the 1990s in terms of their curricular exposure, their course taking progress, and the social and structural contexts of their experiences and learning.

3) Dr. Frank is a Co-Investigator on the NICHD and NSF funded *Adolescent Health and Academic Achievement* (HD40428, REC-0120282) project which collected high school transcripts for the Wave III sample of the *National Longitudinal Study of Adolescent Health*, and which is in the process of disseminating the new data set component.

4) Dr. Frank is a PI (w/William Penuel) on an NSF project (BCS-0624307) to study the implementation of

practices related to "No Child Left Behind," and Co-PI (PI: Peter Youngs) of a study funded by the Carnegie Foundation to examine teacher retention and student learning in Michigan districts.

5) During 2002-03, Dr. Frank served on the editorial board of the *American Journal of Sociology* as a consulting editor. He also served on the editorial board for *Sociology of Education* during 2001-02 and 2006-07, and for *Education, Evaluation and Policy Analysis* in 2001-02.

6) Frank was co-leader of the Statistics Institute for the American Education Research Association in 2005. He conducted a workshop on causal inference for the Department of Sociology at Yale University in February 2007. He has also conducted workshops on social networks at Northwestern University, University of Chicago, SRI International, and Michigan State University. He teaches courses in social network analysis and theory, causal inference, the general linear model and multilevel modeling.

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators: Dorothea Anagnostopoulos, MSU; Dale Belman MSU; Charles Bidwell, Univ-Chicago; Kathryn Borman, Univ-South Florida; Jenifer Bratter, Univ-Houston; Marisa Cannata, MSU; Linda Chard, Educational Testing Service; Robert Crosnoe, UT-Austin; William Davidson, MSU; Patricia Edwards, MSU; Nicole Ellefson, MSU; Samuel Field, Columbia Univ; Michelle Frisco, Penn State; William Hansen, Tanglewood Research; Kyle Fahrbach, Research Associate, Metaworks; Pennie Foster-Fishman, MSU; Noah Friedkin, UC-Santa Barbara; Dennis Grinold, Great Lakes Fisheries Comm; Sandra Herman, Department of Community Health, State of Michigan; William Katzenmeyer, Univ-South Florida; R. Sam Larson, Applied Research; Michael Leahy, MSU; Jing Lei, SUNY-Syracuse; D.M. Mason, Florida State; Raven Mc Rory; MSU; Carol Mowbry, Univ-Michigan; Katrina Mueller, MSU; Chandra Muller, UT-Austin; Pam Quiroz, Univ-Illinois; Aaron Pallas, Columbia Teachers' College; Jennifer Pearson, UT-Austin; R. Kelly Raley, UT-Austin; William Penuell, SRI International; Susan Porter; Victoria Purcell-Gates, MSU; Steve Raudenbush, Univ-Michigan; Mark Reckase, MSU; Catherine Riegle-Crumb, UT-Austin; Kurt Ribisl, Univ-North Carolina; Margaret Riehl, SRI International; John Robertson, Great Lakes Fisheries Comm; Jody Saunders, Univ-Wisconsin at Madison; Kathryn Schiller, SUNY-Albany; James Spillane, Northwestern Univ; Anna Strassmann-Mueller, UT-Austin; Willow Sussex, SRI International; Gary Sykes, MSU; William Taylor, MSU; Barry Wellman, Univ-Toronto; Jeff Yasumoto, PhD candidate, Univ-Chicago; Peter Youngs, MSU, and Yong Zhao, MSU.

Graduate and Postdoctoral Advisors: Tony Bryk, Univ-Chicago.