2019

International Conference of Social Computing

Conference booklet

- ✧ **2019.8.26-8.27**
- ✧ **Xindongfang Lecture Hall, Career Development Center , Tsinghua University**
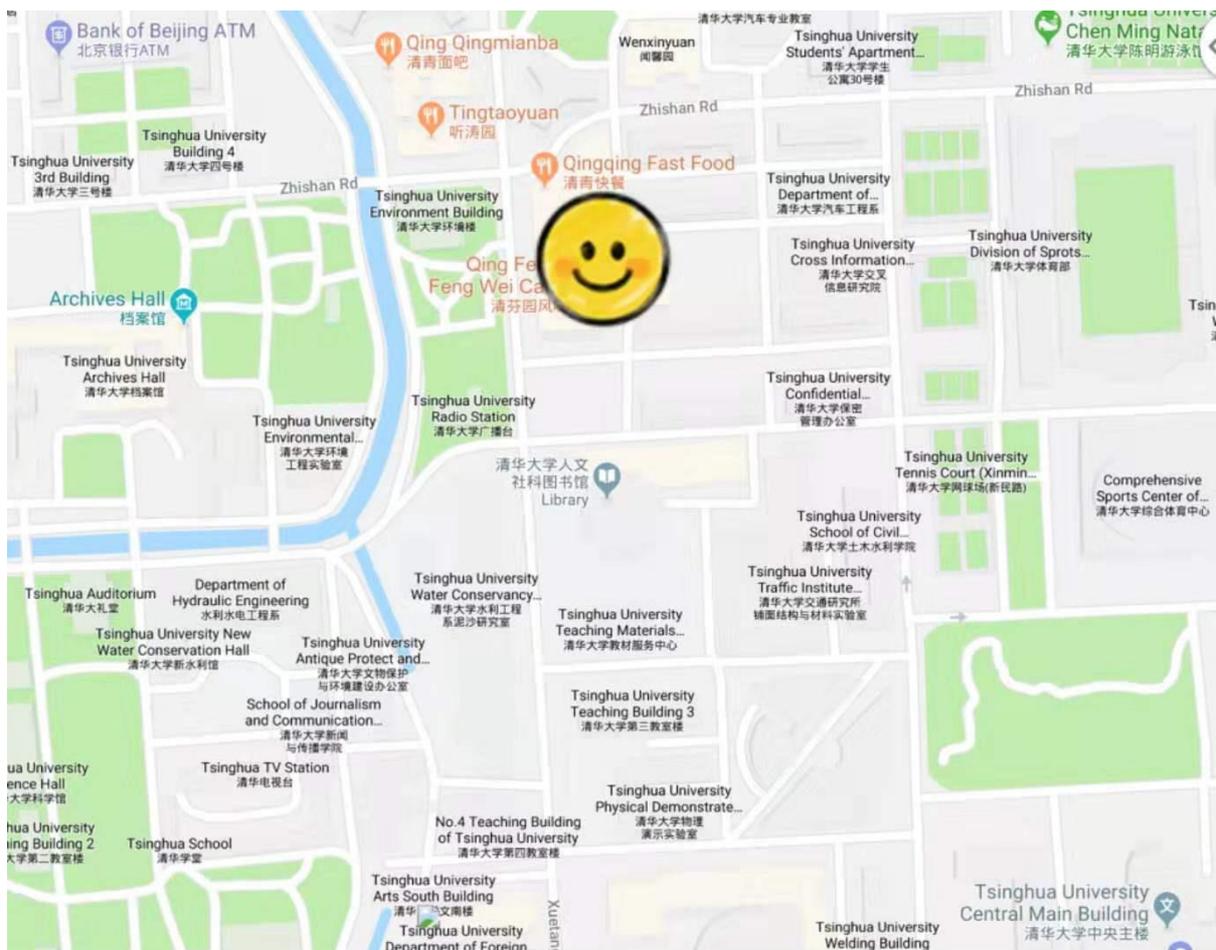
WELCOME

This is the address of the conference venue

Xindongfang Lecture Hall, Career Development Center,

Tsinghua University

Add: 100m north of Humanities and Social Sciences Library,

Tsinghua University, Haidian, Beijing 100872, China

2019 International Conference of Social Computing, Tsinghua University Program

August 26 Research Presentation 1		
Exact Time	Presenter	Theme
8:30-8:40		Opening Speech
8:40-9:05	James A. Evans Department of Sociology The University of Chicago	Social Limits to Understanding
9:05-9:30	Noshir Contractor McCormick School of Engineering & Applied Science Northwestern University	Understanding and Enabling the Future of Work
9:30-9:55	Xiaoming Fu Institute of Math and Computer Science University of Gottingen	Estimating Socioeconomic Status Using Big Data
9:55-10:20	Ben Y. Zhao Department of Computer Science The University of Chicago	Data-driven Analysis of Social Computing Platforms and Behaviors, a Decade-long Retrospective
10:20-10:35	Tea Break	
10:35-11:00	Jarder Luo, Xin Gao Department of Sociology Tsinghua University	Predicting Chinese Guanxi Circles by Using Social Network Data.
11:00-11:25	Zhiyuan Liu Department of Computer Science Tsinghua University	A Tale of Two Representations: Symbols and Embeddings
11:25-11:50	Tao Zhou School of Computer Science University of Electronic Science and Technology of China	Data-Driven Analysis Towards Smart Education
11:50-12:10	Q & A	
12:10-14:00	Lunch	

August 26 Research Presentation 2		
Exact Time	Presenter	Theme
14:00-14:25	Charles Edward Catlett Department of Energy Argonne National Laboratory	Understanding Urban Systems with Edge Computing and Coupled Computational Models
14:25-14:50	Robert West Department of Epidemiology and Public Health University College London	Effects of Clothing on Weight Perception
14:50-15:15	Ying Fan School of System Science Beijing Normal University	Quantify the future popularity of the paper
15:15-15:40	Alex Sandy Pentland, Yuan Yuan Institute for Data, Systems, and Society MIT	Economic Outcomes Predicted by Diversity in Cities

15:40-15:55	Tea Break	
15:55-16:20	Paolo Parigi Institute for Research in the Social Sciences Stanford University	The Impact of Information Technology on Trust
16:20-16:45	Peter Krafft Oxford Internet Institute University of Oxford	Research and Action in Social Computing
16:45-17:10	Yang Chen Department of Computer Science Fudan University	Detecting Malicious Accounts in Online Developer Communities Using Deep Learning
17:10-17:30	Q & A	
18:00-20:00	Welcome Dinner	

August 27 Research Presentation 3		
Exact Time	Presenter	Theme
8:30-8:55	Jiang Zhang School of System Science Beijing Normal University	Modelling Complex Systems --- Simple Rules v.s. Deep Learning
8:55-9:20	Christian Stegbauer Department of Sociology University of Frankfurt	Social Laws: Reducing Diversity in the Echo Chamber
9:20-9:45	Tianguang Meng Department of Political Science Tsinghua University	Understanding Judicial Politics with Open Court Data
9:45-10:10	Alexander Mehler Institute of Computer Science University of Frankfurt	Towards a Multitext Model in the Education Sciences
10:10-10:25	Tea Break	
10:25-10:50	Irwin King Department of Computer Science & Engineering, The Chinese University of Hong Kong	Graph Embeddings for Social Network Analysis: Recent Advances and Future Directions
10:50-11:15	Yu-Sung Su Department of Political Science Tsinghua University	Chinese Netizens' Participation in Taiwan's Politics：Based on The Spatiotemporal extension and Stage Evolution of Social Media SuperNetwork
11:15-11:40	Krishna Gummadi Max Planck Institute for Software Systems	Foundations for Fair Algorithmic Decision Making
11:40-12:00	Q & A	
12:00-13:30	Lunch	

ABOUT THE SCHOOL OF SOCIAL SCIENCE, TSINGHUA UNIVERSITY

Since the establishment of the Tsinghua School (Xuetang) in 1911, courses in political science and economics were offered. In 1925, the school launched its four-year undergraduate program. The Departments of sociology, political science, economics and educational psychology were among the seventeen first founded departments in 1926. In 1928, the authorities officially changed the name to National Tsinghua University, and established fifteen departments in the School of Liberal Arts, the School of Science and the School of Law. The Department of Sociology was in the School of Liberal Arts; the Department of Psychology was in the School of Science; and the Departments of Political Science and Economics in the School of Law.

The study of social science at Tsinghua University has a long tradition of promoting interaction between Chinese and Western cultures and encouraging interdisciplinary communications between the Arts and the Sciences. Advocating for the application modern science methodologies in exploring political, economic and social phenomena, we learned from studies in foreign countries and followed international academic standards, with an emphasis on understanding current realistic problems in China. Founded on the ultimate goal to support the independent academic development of the nation and the construction of a new China, the school has made significant achievements in nurturing students and research.

Many world-class scholars and social activists taught or studied in Tsinghua's social science departments, including Fei Xiaotong（Fei Hsiao-Tung）, Chen Daisun, Zhang Xiruo, Pan Guangdan, Qian Duansheng（Ch'ien Tuan-Sheng), Xiao Gongquan, Wang Tieya, Wang Yanan, Chen Da, Zhu Junyi, Wu Qiyuan, Zhao Yuanren（Chao Yuen Ren), Dai Shiguang, Xiao Qu, Wu Jingchao, Li Jinghan, Chen Tiqiang, and Tang Yue. They were pioneers of all Tsinghua faculties and students in social sciences disciplines who contributed to modern political and economical revival and social construction of China.

In 1952, a nationwide restructuring of institutes of higher education began, and Tsinghua University became a multidisciplinary polytechnic university specializing in training engineers. Social science departments in Tsinghua University were shut down and faculties and students in the field left for other universities or institutions. Since 1978, however, Tsinghua University has strengthened its teaching in the sciences, economic management, humanities and law fields.

Resuscitating its studies and research in social science disciplines, the Department of Social Science was rebuilt in 1984 and School of Humanities and Social Sciences was rebuilt in 1993, which included the Department of Philosophy and Sociology, Department of Chinese Language and Literature, Department of History, the Institute of Ideology and Culture, the Institute of Science, Technology and Society, the Institute of Economics, the Institute of Education, and the Institute of Art Education. In 1997, the Institute of international studies was set up. In 2000, the Department of Sociology and Department of Political Science were re-established. Finally, in 2008, the Department of Psychology was re-established.

In 2012, the first year after the centenary anniversary of Tsinghua University, the School of Humanities and the School of Social Sciences were founded separately on the basis of the original School of Humanities and Social Sciences. The School of Social Sciences includes the Department of Political Science, Department of International Relations, Department of Sociology, Department of Psychology, Institute of Economics . The School aims to meet the academic frontiers of the world and the strategic demands of our nation, and tries its best to attain new achievements in social sciences at Tsinghua University.

ABOUT THE CENTER FOR SOCIAL NETWORK RESEARCH

The Tsinghua Center for Social Network Research was founded on Jan. 1st 2013. As a Tsinghua University research center, its purpose is to develop a platform for cooperation among physicists, computer scientists, and social, behavioral and epidemiology researchers, so that they can explore a set of interdisciplinary methodological approaches for studying complex social networks in big data.

Big data brings a lot of opportunities and challenges for interdisciplinary research: Various domains of knowledge have developed and accumulated a large body of hypotheses, models and empirical findings on the structure, dynamic processes, and consequences of social networks.

In order to arrive at a consensus we first need to create a methodological framework that takes data mining as its starting point. The object of research is online big data, which has the untapped potential to yield findings about new social phenomena. The next step is interpreting these findings through various qualitative and survey studies, which will further help us reveal grounded truth to verify theoretical hypotheses. The final step is building a model that encompasses the co-evolution of human actions and network structure based on the operative theories. With a model built on this solid foundation, researchers trained with interdisciplinary methods have the required information to predict new facts from their results.

Running in parallel to our research are real-world surveys that often generate new facts that conflict with our interpretation of the results of data mining. In this kind of scenario, we must return to our data and begin an iterative process of data mining, theory development and dynamic model building; until we can reconcile the two sets of results.

The goal of TCSNR is to develop a series of programs for training students with different research backgrounds, and mesh their different areas of expertise into a methodologically and substantively integrated whole. From this interdisciplinary training method we can expect new results and considerable progress in social network research.

ABOUT THE INSTITUTE FOR DATA SCIENCE

Tsinghua University Institute for Data Science，based on Tsinghua University, aims to foster discipline integration and innovation, serve national strategies, promote industrial development, cultivate leading talents, lead first-class researches, and finally establish the most powerful team in China Big Data field.

Get more information：

www.ids.tsinghua.edu.cn

ABOUT THE TSINGHUA UNIVERSITY PRESS

The International Cooperation Department of Tsinghua University Press (TUP) specializes in the press' overseas business development and copyright trade.

As one of the first Chinese publishing companies to work with overseas trade partners, TUP started its international cooperation in 1990s. Over the years, we have been actively involved in the international exchange and market competition. With the working philosophy of being "open, innovative, professional and efficient", the International Cooperation Department works not only as the press' window to the outside world, but also a bridge connecting to the world.

Thanks to the rich resources of Tsinghua University, TUP has been highly active at the frontiers of Chinese academic and higher education publishing.

By introducing thousands of high quality overseas titles to the Chinese market, TUP has promoted the international exchange in education and culture on one hand, and established strategic partnerships with many famous international publishing companies such as Pearson Education, Elsevier, John Wiley & Sons, Springer, McGraw Hill Education, Taylor Francis, etc. on the other hand.

TUP is now an experienced publisher favored by many outstanding authors and translators whose works appeal to other publishing companies for they represent the most advanced level of academic research in China. Up till now, TUP has licensed hundreds of titles to publishers in the United States of America, Germany, the United Kingdom, France, Japan, Singapore, South Korea, etc.

With the arrival of the digital era, the International Cooperation Department will take a more open and positive attitude towards international publishing. We sincerely hope to develop a closer and more in-depth cooperation with partners around the world in areas like science and technology, medicine, humanities and social sciences, business and management, children's books, popular books, etc.

ABOUT THE TENCENT RESEARCH INSTITUTE

Set up by Tencent as its research arm for public strategies, Tencent Research Institute utilizes the company's diverse products, numerous cases and massive data, looks into issues on the development of the Internet, gathers intelligent ideas from different social sectors through an open and collaborative platform; and promotes healthy and orderly development of society and the digital economy.

With an open, inclusive and forward-looking vision for research, the Institute is committed to building itself into a research platform for modern technology, as well as social science and humanities.

List of Participants

Charles Edward Catlett	U.S. Department of Energy's Argonne National Laboratory
Yang Chen	Fudan University
Yunsong Chen*	Nanjing University
Noshir Contractor	Northwestern University
James A. Evans	The University of Chicago
Ying Fan	Beijing Normal University
Xiaoming Fu	University of Gottingen
Krishna Gummadi	Max Planck Institute for Software Systems
Irwin King	The Chinese University of Hong Kong
Peter Krafft	University of Oxford
Zhiyuan Liu	Tsinghua University
Jarder Luo	Tsinghua University
Alexander Mehler	University of Frankfurt
Tianguang Meng	Tsinghua University
Xiaofeng Meng*	Renmin University of China
Paolo Parigi	Stanford University
Alex Sandy Pentland*	Massachusetts Institute of Technology
Christian Stegbauer	University of Frankfurt
Yu-sung Su	Tsinghua University
Jie Tang	Tsinghua University
Robert West	University College London
Jiang Zhang	Beijing Normal University
Ben Y. Zhao	The University of Chicago

*Submit paper only

▣ Information of Participants

Tao Zhou	University of Electronic Science and Technology of China

Charles Edward Catlett

Sr Computer Scientist

U.S. Department of Energy's Argonne National Laboratory

Charles Catlett is a Senior Computer Scientist at the U.S. Department of Energy's Argonne National Laboratory and a Senior Fellow at the University of Chicago's Mansueto Institute for Urban Innovation. His current research focuses on urban data analytics, urban modeling, and the design and use of sensing and "edge" computing technologies embedded in urban infrastructure. He is the principal investigator of the NSF-funded "Array of Things" (AoT), an experimental urban infrastructure to measure the city's environment with sensors and embedded ("edge"), remotely programmable artificial intelligence hardware. Operating at over 100 locations in Chicago, AoT is expanding to 200 during summer 2019.

Catlett has served as Argonne's Chief Information Officer and before joining UChicago and Argonne in 2000, he was Chief Technology Officer at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign. From NCSA's founding in 1985 he participated in the development of NSFNET, one of several early national networks that evolved into what we now experience as the Internet. During the exponential growth of the web following the release of NCSA's Mosaic web browser, his team developed and supported NCSA's scalable web server infrastructure.

Charlie founded the Urban Center for Computation and Data at the University of Chicago in 2012, was recognized as one of Chicago's "Tech 50" technology leaders by Crain's Chicago Business in 2014, and nationally as one of "25 Doers, Dreamers & Drivers" of 2016 by Government Technology magazine. He is a Computer Engineering graduate of the University of Illinois at Urbana-Champaign.

Yang Chen

Associate Professor

School of Computer Science

Fudan University

Yang Chen is an Associate Professor within the School of Computer Science at Fudan University. He received his B.S. and Ph.D. degrees from the Department of Electronic Engineering in Tsinghua University, in 2004 and 2009, respectively. He was a Postdoctoral Associate at the Department of Computer Science in Duke University, and was a Research Associate at the Institute of Computer Science of the University of Goettingen, Germany. His research interests include online social networks, Internet architecture and mobile computing. He is serving as an Editorial Board Member of the Transactions on Emerging Telecommunications Technologies (ETT) and IEEE Access. He served as an OC / TPC Member for several international conferences, including SOSP, WWW, IJCAI, AAAI, IWQoS and ICCCN. He published more than 60 referred papers in international journals and conferences, including *IEEE TPDS, IEEE TMC, IEEE TSC, IEEE TNSM, IEEE TCSS, IEEE Communications Magazine, Middleware, INFOCOM, ICDCS, ICDE, CIKM, ACSAC* and *IWQoS*.

Yunsong Chen

Professor

Hopkins Nanjing Center

Nanjing University

Chen Yunsong joins the Hopkins-Nanjing Center from the Sociology Department at Nanjing University, where he is a Professor of Sociology. Professor Chen's research interests are in quantitative sociology and he has broad research interests in the fields of big data, social networks and social governance. He has taught classes in social networks, sociological analysis using big data, and advanced quantitative methods in sociology.

Supported by a Clarendon Scholarship, Professor Chen earned his DPhil in Sociology at Nuffield College, the University of Oxford. His recent academic work has appeared in leading English-language journals including *Social Networks, Social Science Research,* and *British Journal of Sociology*, as well as top Chinese journals including *Social Science in China* and Journal of Chinese Sociology. He was awarded the Distinguished Scholarly Publication Award by the Lu Xueyi Sociology Development Foundation. His newer research agenda extends his earlier research to broader fields with novel data extracted from enormous volumes of digitized data (e.g., Google Books N-gram corpus, Baidu Search Engine, Sina-Microblog, Complete Tang Poetry, to name a few) to conduct quantitative analysis at macro or micro levels.

Topic: The Werther Effect Revisited: Do suicides in books predict actual suicides?

Noshir Contractor

Jane S. & William J. White Professor of Behavioral Sciences

Northwestern University

Noshir Contractor is the Jane S. & William J. White Professor of Behavioral Sciences in the McCormick School of Engineering & Applied Science, the School of Communications and the Kellogg School of Management at Northwestern University. He is the Director of the Science of Networks in Communities (SONIC) research center. He is investigating factors that lead to the formation, maintenance, and dissolution of dynamically linked social and knowledge networks in a wide variety of contexts. He received the National Communication Association Distinguished Scholar Award in 2014 and was elected as a Fellow of the International Communication Association in 2015. He was the co-founder and Chairman of Syndio (since then acquired by Edge Analytics), which offers organizations products and services based on network analytics. In 2018 he received the Distinguished Alumnus Award from the Indian Institute of Technology, Madras where he received a Bachelor's degree in Electrical Engineering. He has a Ph.D. in Communication from the Annenberg School of Communication at the University of Southern California.

James A. Evans

Professor

Department of Sociology

The University of Chicago

My research focuses on the collective system of thinking and knowing, ranging from the distribution of attention and intuition, the origin of ideas and shared habits of reasoning to processes of agreement (and dispute), accumulation of certainty (and doubt), and the texture—novelty, ambiguity, topology—of understanding. I am especially interested in innovation—how new ideas and practices emerge—and the role that social and technical institutions (e.g., the Internet, markets, collaborations) play in collective cognition and discovery. Much of my work has focused on areas of modern science and technology, but I am also interested in other domains of knowledge—news, law, religion, gossip, hunches, machine and historical modes of thinking and knowing. I support the creation of novel observatories for human understanding and action through crowd sourcing, information extraction from text and images, and the use of distributed sensors (e.g., RFID tags, cell phones). I use machine learning, generative modeling, social and semantic network representations to explore knowledge processes, scale up interpretive and field-methods, and create alternatives to current discovery regimes. My research has been supported by the National Science Foundation, the National Institutes of Health, the Air Force office of Science Research, and many philanthropic sources, and has been published in *Nature, Science, Proceedings of the National Academy of Science, American Journal of Sociology, American Sociological Review, Social Studies of Science, Research Policy, Critical Theory, Administrative Science Quarterly*, and other outlets. My work has been featured in the *Economist, Atlantic Monthly, Wired, NPR, BBC, El Pa ś, CNN, Le Monde,* and many other outlets.

At Chicago, I am Director of Knowledge Lab, which has collaborative, granting and employment opportunities, as well as ongoing seminars. I also founded and now direct on the Computational Social Science program at Chicago, and sponsor an associated Computational

🖹 Information of Participants

Social Science workshop. I teach courses in augmented intelligence, the history of modern science, science studies, computational content analysis, and Internet and Society. Before Chicago, I received my doctorate in sociology from Stanford University, served as a research associate in the Negotiation, Organizations, and Markets group at Harvard Business School, started a private high school focused on project-based arts education, and completed a B. A. in Anthropology at Brigham Young University.

Ying Fan

Professor

School of System Science

Beijing Normal University

Educational Experiences：
•1996-1999 Ph.D., Department of Physics, BNU
•1994-1996 Master, Department of Physics, BNU
•1990-1994 Bachelor, Department of Physics, BNU
Work Experience：
•2008- Professor, School of Systems Science, BNU
•2008- Doctoral Supervisor, School of Systems Science,
•2002-2008 Associate Professor, SSS, BNU
•1990-1994 Bachelor, Department of Physics, BNU
Research Interests：
Fan Ying's main research area is complexity study and its application in different fields. Fan has made achievements in human capital, technological innovation and economic growth through socioeconomic system analyzing. She is focusing on the emergence of complex system as well as the complexity study in complex network and socioeconomic system.

Xiaoming Fu

Professor

Institute of Computer Science

University of Gottingen

Xiaoming Fu received his Ph.D. from Tsinghua University and is currently Professor of Computer Science at University of Göttingen, Germany. He is interested in networked systems and services, cloud computing, mobile computing, big data and social networks. He has served on several journal editorial boards (e.g., *IEEE Transactions on Network Science and Engineering, IEEE Transactions on Network and Service Management, IEEE Communications Magazine, Elsevier Computer Communications*) and conference committees (e.g., *SIGCOMM, MobiCom, CoNEXT, INFOCOM, ICNP, COSN*), and as elected officers of *IEEE Communications Society Technical Committees on Computer Communications* (*TCCC*) and *Internet* (*ITC*). He is a fellow of Institution of Engineering and Technology (IET) and Academia Europaea (The Academy of Europe), an IEEE Senior Member and IEEE Distinguished Lecturer.

Krishna Gummadi

Scientific Director

Max Planck Institute for Software Systems

Krishna Gummadi is a scientific director and head of the Networked Systems research group at the Max Planck Institute for Software Systems (MPI-SWS) in Germany. He also holds an honorary professorship at the University of Saarland. He received his Ph.D. (2005) and B.Tech. (2000) degrees in Computer Science and Engineering from the University of Washington and the Indian Institute of Technology, Madras, respectively.

Krishna's research interests are in the measurement, analysis, design, and evaluation of complex Internet-scale systems. His current projects focus on understanding and building social computing systems. Specifically, they tackle the challenges associated with (i) assessing the credibility of information shared by anonymous online crowds, (ii) understanding and controlling privacy risks for users sharing data on online forums, (iii) understanding, predicting and influencing human behaviors on social media sites (e.g., viral information diffusion), and (iv) enhancing fairness and transparency of machine (data-driven) decision making in social computing systems.

Krishna's work on online social networks, Internet access networks, and peer-to-peer systems has been widely cited and his papers have received numerous awards, including SIGCOMM Test of Time, IW3C2 WWW Best Paper Honorable Mention, Runners-Up Casper Bowden Privacy Enhancing Technologies (PET) Award, and Best Papers at NIPS ML & Law Symposium, ACM COSN, ACM/Usenix SOUPS, AAAI ICWSM, Usenix OSDI, ACM SIGCOMM IMC, ACM SIGCOMM CCR, and SPIE MMCN. He has also co-chaired AAAI's ICWSM 2016, IW3C2 WWW 2015, ACM COSN 2014, and ACM IMC 2013 conferences. He received an ERC Advanced Grant in 2017 to investigate "Foundations for Fair Social Computing".
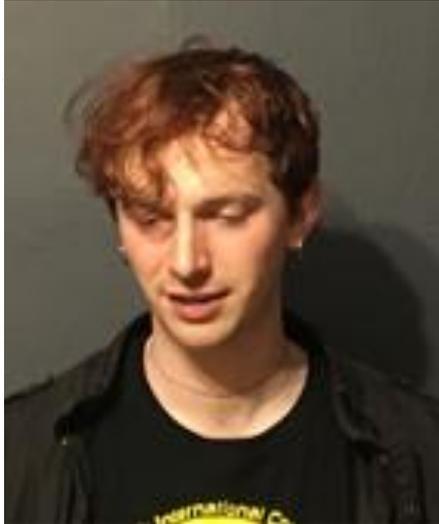
Irwin King

Professor

Department of Computer Science & Engineering,

The Chinese University of Hong Kong

Prof. King's research interests include machine learning, social computing, AI, web intelligence, data mining, and multimedia information processing. In these research areas, he has over 300 technical publications in journals and conferences. He is an Associate Editor of the ACM Transactions on Knowledge Discovery from Data (ACM TKDD) and Journal of Neural Networks. He is President of the International Neural Network Society (INNS) and an IEEE Fellow. Moreover, he is the General Co-chair of The WebConf 2020, ICONIP2020, WSDM2011, RecSys2013, ACML2015, and in various capacities in a number of top conferences such as WWW, NIPS, ICML, IJCAI, AAAI, etc. Prof. King is the former Associate Dean (Education), Faculty of Engineering and Professor at the Department of Computer Science and Engineering.

Peter Kfafft

Senior Research Fellow

Oxford Internet Institute

Oxford University

Dr. Krafft is a Senior Research Fellow at the OII in the University of Oxford's Social Science Division. Before coming to OII, Dr. Krafft received a PhD in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology (MIT) Computer Science and Artificial Intelligence Laboratory (CSAIL), where Dr. Krafft was funded in part by a National Science Foundation (NSF) Graduate Research Fellowship. After graduating, Dr. Krafft was a Moore/Sloan & WRF Innovation in Data Science Postdoctoral Fellow at the University of Washington Information School, a postdoctoral researcher at the University of California Berkeley's Social Science Matrix and Department of Psychology, a visiting postdoctoral scholar at the Data & Society Research Institute in New York City, and a participant in the Harvard Berkman-Klein Center/MIT Media Lab Assembly program.

Zhiyuan Liu

Associate Professor

NLP Lab

Department of Computer Science

Tsinghua University.

Zhiyuan Liu is an associate professor at the Department of Computer Science and Technology, Tsinghua University. He received his Ph.D. degree in Computer Science from Tsinghua in 2011. His research interests include representation learning, knowledge graphs and social computation, and has published more than 80 papers in top-tier conferences and journals of AI and NLP including ACL, IJCAI and AAAI, cited by more than 5000 according to Google Scholar. He is the recipient of the Excellent Doctoral Dissertation of Tsinghua University, the Excellent Doctoral Dissertation of CAAI (Chinese Association for Artificial Intelligence).

Jar-Der Luo

Professor

School of Social Sciences & School of Public Policy and Management

Chairman of Tsinghua Social Network Research Center

Tsinghua University

Luo Jar-Der is a professor of Sociology Dept., Tsinghua University in Beijing, president of Chinese Network for Social Network Studies, and chairman of Tsinghua Social Network Research Center. He earned his Ph.D. degree in Sociology Dept. of State U. of New York at Stony Brook. He researches numerous topics in social network studies, including social capital, trust, social network analysis in big data, self-organization process and Chinese indigenous management researches, such as guanxi and guanxi circle.

Luo Jar-Der, with a group of voluntary network theorists, organized Chinese Network for Social Network Studies (in brief, CNSNS) in 2005. Its purposes aim at promoting Network Theories and Social Network Analysis in China and developing network theories suited for Chinese management. Chinese always describe themselves as a "Ren-Ching society", that is, roughly saying, a society built upon social ties (guanxi) and favor exchanges (Ren-Ching- jiau-huan).

Luo Jar-Der organized Community Revitalization Research Center in Tsinghua U., which aims at doing experiments in communities and establishing a model for sustainable revitalization in urban and rural areas that emphasizes sustainability of the local ecology, economy, and social systems. We will endeavor to implement a revitalization model combining private-public partnership and sustainable concepts into practice, incorporating scientific planning, balanced development, step-by-step implementation and self-reliance of local community into our plan.

Alexander Mehler

Professor

Institute of Computer Science

University of Frankfurt

Alexander Mehler is professor of Computational Humanities / Text-technology at Goethe University Frankfurt where he heads the Text Technology Lab (TTLab). He belonged to the executive committee of the German Society for Computational Linguistics & Language Technology where he currently heads the research group on Quantitative Corpus Linguistics. Alexander Mehler was head of the research group Computational Semiotics of the German Society of Semiotics and belonged to the executive committee of the LOEWE Priority Program "Digital Humanities". Currently, Alexander Mehler is member of the executive committee of the Center for Digital Research in the Humanities, Social Sciences and Education Sciences (CEDIFOR). Alexander Mehler is a founding member of the German Society for Network Research (DGNet). His research interests include the quantitative analysis, simulative synthesis and formal modelling of textual units in spoken and written communication. To this end, he investigates linguistic networks based on contemporary and historical languages (using models of language evolution). A current research interest of Alexander Mehler concerns 4D text technologies based on Virtual Reality (VR), Augmented Reality (AR) and Augmented Virtuality (AV).

Tianguang Meng

Associate Professor

Department of Political Science

Tsinghua University

Tianguang Meng is an associate professor in the Department of Political Science at the School of Social Sciences in Tsinghua University, the director of The Research Center on Data and Governance, and the executive director of Tsinghua Computational Social Science Institute. His research interest includes political institution, information and politics, Big data and governance, computational social science. He hosts both survey projects like China Urban Governance Survey (2015, 2018) and Chinese Public Official Survey (2013,2014,2015,2017, 2019), and several data science projects such as Government responsiveness in local China (2017), social media and anticorruption (2015), legal openness and judicial politics (2018), and online deliberation (2018). His articles have been published in *Comparative Political Studies, Governance, Global Environmental Change, Social Science Research, Policy Study Journal,* and *International Journal of Public Opinion Research*. He earned the B.A. and Ph.D. degrees in political science from Peking University. Previously, He was a visiting scholar in Harvard University and University of California, San Diego.

Xiaofeng   Meng

Professor

School of Information

Renmin University of China

Meng Xiaofeng is a full professor at School of Information, Renmin University of China. He is the CCF Fellow, the vice chair of the Special Interesting Group on Privacy of China Confidentiality Association(CCA).He has served on the program committee of international conferences such as SIGMOD, ICDE, CIKM, MDM, DASFAA etc., the steering committee chair of National Conference on Big Data and Social Computing(BDSC) .

His research interests include Web data management, Cloud data management, mobile data management, privacy protection, and social computing. He has published over 200 papers in refereed international journals and conference proceedings including IEEE TKDE,VLDJ , VLDB, SIGMOD, ICDE, EDBT, ACM GIS etc.. He co-authored the books "Moving Objects Management:" published by Springer and Tsinghua Press.

Has received CCF "Wang Xuan Award". He implemented relational database system COBASE, embedded mobile database system "Xiaojinling", Chinese natural language query system NChiql, parallel database system PBASE/1, Native XML database system OrientX, cloud-base database system TaijiDB, and academic search system ScholarSpace(C-DBLP), etc.

Topic: Data Challenges in Social Computing

Paolo Parigi

Assistant Professor

Institute for Research in the Social Sciences

Stanford University

Paolo has spent the last few years studying trust interactions in the online markets of the sharing economy. He has conducted research on trust as an assistant professor at Stanford and as a research scientist first at Uber and then at Airbnb. In 2013, Paolo and Karen Cook received a NSF grant to support this line of work and since then their work has appeared on major academic journals. The nature of this work locates Paolo at the intersection of social sciences and computer science, in the emerging area of computational social science.

Paolo interests extends beyond online trust interactions and cover the broader area of the impact of technology on relationships. The key insight of his work is that technology is not only accumulating data but is transforming our social lives. As a result, there is now a space for an applied social science aimed at testing the mechanisms of social behavior through experimentation. Paolo's current position in industry allows him to pursue this more applied side of computational social science.

Paolo has a MA in Quantitative Methods and a PhD in Sociology both from Columbia University. Since 2017, he has worked as Lead Trust Scientist at Airbnb in San Francisco.

Alex Sandy Pentland

Professor

The MIT Media Lab

Professor Alex 'Sandy' Pentland directs the MIT Connection Science and Human Dynamics labs and previously helped create and direct the MIT Media Lab and the Media Lab Asia in India. He is one of the most-cited scientists in the world, and Forbes recently declared him one of the "7 most powerful data scientists in the world" along with Google founders and the Chief Technical Officer of the United States. co-led the World Economic Forum discussion in Davos that led to the EU privacy regulation GDPR, and was central in forging the transparency and accountability mechanisms in the UN's Sustainable Development Goals. He has received numerous awards and prizes such as the McKinsey Award from Harvard Business Review, the 40th Anniversary of the Internet from DARPA, and the Brandeis Award for work in privacy.

He is a founding member of advisory boards for Google, AT&T, Nissan, and the UN Secretary General, a serial entrepreneur who has co-founded more than a dozen companies including social enterprises such as the Data Transparency Lab and the Harvard-ODI-MIT DataPop Alliance . He is a member of the U.S. National Academy of Engineering and leader within the World Economic Forum.

Over the years Sandy has advised more than 60 PhD students. Almost half are now tenured faculty at leading institutions, with another one-quarter leading industry research groups and a final quarter founders of their own companies. Together Sandy and his students have pioneered computational social science, organizational engineering, wearable computing (Google Glass), image understanding, and modern biometrics. His most recent books are Social Physics, published by Penguin Press, and Honest Signals, published by MIT Press.

Topic: Economic Outcomes Predicted by Diversity in Cities

Christian Stegbauer,

Professor

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Dr. Stegbauer is a professor in department of sociology, Johann Wolfgang Goethe-University Frankfurt am Main.

Dr. Stegbauer is Cofounder of the Online-Journal "kommunikation@gesellschaft", Cofounder of the section for "Sociological Network Research" in the German Society of Sociology and also Cofounder and Chairperson of the German Society of Network Research. Fields of work are sociology of the internet, network research, sociology of culture and economic sociology.
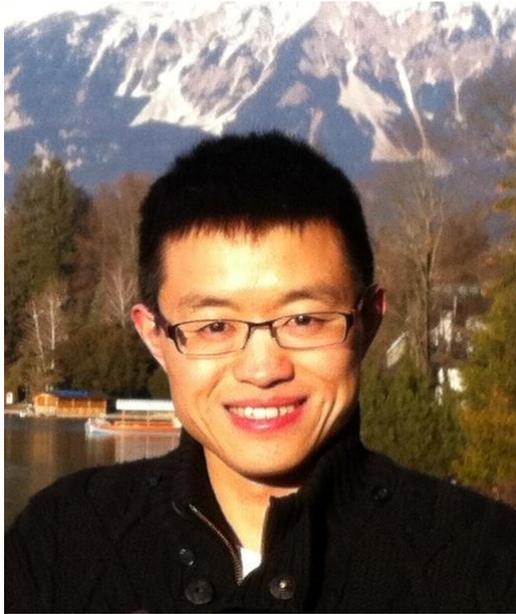
Yu-Sung Su

Associate Professor

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Dr. Yu-Sung Su is an associate professor of political science department and the director of the Institute of Quantitative Research Methods at Tsinghua University.

His research interests involve Comparative Democratization, Political Economy and Political Methodology (Causal Inference, Bayesian Methods, Multilevel Modeling and Game Theory). He published his works in journals such as *Annals of Applied Statistics, Journal of Statistical Software, Econometrika, Research Policy, Social Science Quarterly, Global Environmental Change,* etc. He also maintains several R packages such as arm, mi, R2jags.

Jie Tang

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Professor Tang's interests include social network analysis, data mining, and machine learning. He has published more than 200 journal/conference papers and holds 20 patents. His papers have been cited more than 6,000 times (Google Scholar). He has been a visiting scholar at Cornell University, served as PC Co-Chair of CIKM'16, WSDM'15, ASONAM' 15, Soclnfo'12, KDD-CUP/Poster/Workshop/ Local/Publication Co-Chair of KDD'11-15, and Associate Editor-in-Chief of ACM TKDD, Editors of IEEE TKDE/TBD and ACM TIST. He leads the project AMiner.org for academic social network analysis and mining, which has attracted more than 8 million independent IP accesses from 220 countries/ regions in the world. He was honored with the Newton Advanced Scholarship Award, CCF Young Scientist Award, and NSFC Excellent Young Scholar.

Jiang Zhang

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Dr. Jiang Zhang is a professor in School of Systems Science, Beijing Normal University and the founder of Swarma Club and Swarma Campus (Beijing) Science and Technology Lt. Co. He also provides consulting services for Tencent Research Institute. His major research interests include machine learning on graphs, scaling theory of cities and firms, etc. His works are published on international journals including Nature Communications, Scientific Reports, Physical Review E, and Journal of Theoretical Biology, etc. He is enthusiastic in teaching and science propagation for public. He teaches several popular courses in BNU, such as Complexity thinking, Artificial Intelligence, and MATLAB. He initiated Swarma Club in 2003, which is a well-known non-profit organization for inter-disciplinary scientific research in China. The club has stimulated some innovative ideas and even incubated startup AI teams (Colorful Cloud AI). Several academic papers are published on top journals like Nature, Nature Communications, Scientific Reports and so forth by the core members of Swarma Club. They also authored some popular science books for citizens, including The ultimate in science – Talking about Artificial Intelligence, Approaching 2050 – about Attention, Internet, and Artificial Intelligence, Deep Thinking(Translation), and Principles of Deep Learning and Practice for PyTorch.

Ben Y. Zhao

Neubauer Professor of Computer Science

University of Chicago

Ben Y. Zhao's research uses data, empirical experiments, and analysis to discover new problems and validate or debunk long-held models and assumptions. His current work focuses on data-driven models of user behavior, security and privacy, machine learning, and wireless and mobile systems. Several of his papers have created new research areas and reshaped others by invalidating incorrect assumptions through the use of experimental data.

Together with Heather Zheng (also of the University of Chicago), he co-directs the Systems, Algorithms, Networks, and Data Lab. He is credited with more than 150 research publications relating to security and privacy, networked systems, wireless networks, data-mining, and human-computer interaction. He is an avid user of Quora, a community knowledge building network, where he regularly writes about academic research and university life, and is one of its "Top Writers."

Zhao is an Association for Computing Machinery Distinguished Member and a recipient of the National Science Foundation's Faculty Early Career Development award, the MIT Technology Review's TR35 award for young innovators under the age of 35, Computerworld's Top 40 Tech Innovators under 40 award, and the Internet Technical Committee Early Career Award from the Institute of Electrical and Electronics Engineers. He holds a PhD in computer science from the University of California, Berkeley, and a BS in computer science from Yale University.

Tao Zhou

Professor

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Tao Zhou, a full professor in University of Electronic Science and Technology of China, who is mainly interested in statistical physics and complexity sciences. He received his Ph.D. degree in Theoretical Physics from University of Fribourg in 2010. He is interested in Big Data and Complexity Science.

Dr.Zhou has published 300+ papers in prestigious journals like Physics Reports, PNAS, Nature Communications and PRL. All his publications have received more than 22000 citations, with H-index being 70.