

2020
Industry Studies Association
Annual Conference
June 3-5, 2020



EWING MARION
KAUFFMAN
FOUNDATION



~WELCOME~

John Paul MacDuffie, President of the Industry Studies Association

On behalf of the board of the Industry Studies Association, welcome to Boston/Cambridge and the 2020 Annual ISA Conference. I'm looking forward to a terrific set of sessions and panels, and I'm glad you're here to join us at this meeting. This year's location highlights the core purpose of our association. We build knowledge together through deeper understanding of firms, industries, and the broader context in which they operate.

Our conference takes place at MIT's Samberg Center, just blocks from Kendall Square in Cambridge. The history of Kendall Square is a microcosm of economic, technological, and social change in the U.S. First a transportation hub in the 1800s, by the early 20th century, Kendall Square was home to distilleries, electric power plants, and soap, hosiery and boiler factories. Picked as the potential future home of NASA by President John F. Kennedy – but losing out to Houston – the surrounding area, cleared of factories and warehouses, sat mostly vacant until the 1990s and 2000s. Now some call Kendall Square "the most innovative square mile on the planet," in reference to the high concentration of entrepreneurial start-ups (i.e. 62 new public companies with a combined market value of about \$170 billion as of 2018) and quality of innovation, particularly in biotechnology, which have emerged since 2010. Nearby, in Boston, is another cluster of firms pioneering in advanced manufacturing technologies like 3D CAD, generative design, augmented and virtual reality, and spatial computing; ISA will offer a pre-conference excursion to visit some of its key firms. Our plenary sessions and activities are designed to take advantage of this terrific location.

I'm excited about the special events we have organized for this year's conference. At our opening plenary on the conference theme – "Work of the Future" – hear the views of leading researchers on which jobs and skills are most affected by new technologies; whether or not robots and artificial intelligence-fueled software will displace human labor at unprecedented rates; and the choices available to technologists, managers, and policymakers in shaping the future human-technology relationship. Our second plenary features the biopharmaceutical industry, focusing on the tensions and tradeoffs between "Pricing and Innovation". At the same time as personalized medicine based on biosimilar innovations appears closer than ever, the prices of medications looms large as a major political issue and continuing public health concern.

Two sessions feature the authors of recent books writing on topics well-aligned with ISA's research community. Katherine Eban's Bottle of Lies explores the sources of recent problems of manufacturing quality in the global supply chain for generic pharmaceuticals, revealing a "dark side" of globalization and the immense challenge of enforcing global norms and standards. Mary Gray's Ghost Work shines a spotlight on the thousands, perhaps millions of contract workers around the world who perform the small but crucial tasks that underpin some of the Internet's most popular (and pervasive) applications, e.g. Facebook, Google, Uber. It's a "gig economy" hidden to most of us yet we should ponder its lessons.

I have a word of encouragement for those of you who are new to this meeting. Most of our ISA regulars come to this conference largely because they enjoy learning from others with similar interests and different perspectives. Similarities often revolve around commitment to learning from data, to working on relevant issues, and to engaging first-hand with phenomena in the field. Different perspectives arise from variation in industry contexts for research, from the wide range of disciplines represented at the conference, and from a multitude of methods of inquiry. We deliberately build in time for informal networking, and we try to structure sessions to encourage discussion. Come on into the conversation!

Our association relies on volunteers and on the generosity of sponsors to stay vibrant. Thanks are due to the Ewing Marion Kauffman Foundation, The Carson College of Business at Washington State University, the Institute on Work and Employment Relations and the Industrial Performance Center at MIT, and the Mack Institute of Innovation Management at the Wharton School, U. Pennsylvania. Over the next few days, also pass on a word of thanks to our program committee for assembling a great lineup. Our program chairs— Liz Reynolds, Ingrid Nembhard, and John Gray—have worked for months with our track chairs and others to bring things together. Our executive director, Stephanie Rink, has done a great job of leading our conference planning across the board. Make sure you say "hi" to Stephanie and introduce yourself so she has a chance to get to know the members she's serving.

All of us look forward to welcoming you to MIT's Samberg Center by the Charles River in June. It's a lovely time of year in Cambridge and we have great spaces for all of our receptions. Be sure to seek out me, the Program Chairs, and members of the Board with your ideas for how to make ISA better. We may then try to get you more involved – which is definitely a win-win proposition! See you soon.

John Paul MacDuffie
President



Conference in Brief

LOCATION

MIT Samberg Conference Center
Chang Building (E52)
50 Memorial Dr
Cambridge, MA 02142

REGISTRATION

Wednesday, June 3:	5:30 pm — 7:00 pm	MIT Samberg 7th Floor Lobby
Thursday, June 4:	8:30 am — 4:00 pm	MIT Samberg 7th Floor Lobby
Friday, June 5:	8:30 am — 11:30 am	MIT Samberg 7th Floor Lobby

WEDNESDAY June 3, 2020

2:30 pm — 5:30 pm	Excursion TBD
12:00 pm — 5:00 pm	Professional Development Luncheon & Workshop
6:00 pm — 7:00 pm	Industry Studies Association Welcome Reception

THURSDAY June 4, 2020

9:00 am — 10:30 am	Welcome and Plenary I: The Work of the Future
10:45 am — 12:00 pm	Panel Sessions 1A—1I
12:15 pm — 1:30 pm	Luncheon and Plenary II: Reflecting on Industry Studies
1:45 pm — 3:00 pm	Panel Sessions 2A—2I
3:15 pm — 4:15 pm	Special Feature I: Globalization, Norms, and Integrity
4:30 pm — 5:45 pm	Panel Sessions 3A—3I
6:00 pm — 7:30 pm	Industry Studies Association Conference Reception & Awards Presentation

FRIDAY June 5, 2020

9:00 am — 10:00 am	Special Feature II: Ghost Work with author Mary L. Gray
10:15 am — 11:30 am	Panel Sessions 4A—4I
11:45 am — 1:00 pm	Luncheon and Plenary III: Pricing and Innovating
1:15 pm — 2:30 pm	Panel Sessions 5A—5I
2:45 pm — 4:00 pm	Panel Sessions 6A—6I
4:10 pm — 5:00 pm	Conference Closing Remarks and Business Meeting



Venue Map

Room Locator

Plenary Sessions, Special Features, & Luncheons - Teal

Panel Sessions - Red

ISA Office- Purple

DRAFT



Industry Studies Association Awards

Join us Thursday, June 4th at the Awards Reception as we recognize all awardees.

Conference Best Paper in the Innovation and Entrepreneurship Research Stream Award

This award has been made possible with the generous support of the Ewing Marion Kauffman Foundation.

WINNING PAPER

Presentation:

RUNNER-UP

Presentation:

Dissertation Award

WINNER

Presentation:

RUNNER-UP

Emerging Scholar in Innovation and Entrepreneurship Award

This award has been made possible with the generous support of the Ewing Marion Kauffman Foundation.

This award recognizes an early or mid-career industry studies scholar conducting exceptional research in the area of innovation and entrepreneurship. The award winner demonstrates significant personal investment in understanding the markets, firms, and institutions of an industry and frequently involves the integration of director observation through field based research with appropriate theory and analysis.

WINNER

Presentation:



EWING MARION
KAUFFMAN
FOUNDATION



Industry Studies Association Awards

Join us Thursday, June 4th at the Awards Reception as we recognize all awardees.

Giarratani Rising Star Award

WINNER

Presentation:

RUNNER-UP

Presentation:

Ralph Gomory Best Industry Studies Paper Award

WINNING PAPER

Presentation:

RUNNER-UP

Presentation:

Thank you to all who served on an award selection committee!



Research Stream Legend

Throughout the conference schedule, panels indicate which one of the eight ISA research streams they represent by the following abbreviations and color scheme:

1. **Energy, Power, & Sustainability (EP&S)**
2. **Healthcare (H)**
3. **Globalization: Management & Policy Implications (G:M&PI)**
4. **Innovation & Entrepreneurship (I&E)**
5. **Technology Management (TM)**
6. **Labor Markets, Organizations, & Employment Relations (LMO&ER)**
7. **Operations & Supply Networks (O&SN)**
8. **General Industry Studies (GIS)**

Conference Program: Wednesday, June 3

EXCURSION: Location?

2:30 pm — 5:30 pm Pre-registration required

PROFESSIONAL DEVELOPMENT WORKSHOP

12:00 pm — 1:00 pm *Luncheon* Samberg Dining 4

1:00 pm — 5:00 pm *Workshop* Samberg Dining 3

ISA BOARD MEETING (board members only)

8:00 am — 12:00 pm Samberg Salon East

INDUSTRY STUDIES CONFERENCE WELCOME RECEPTION

6:00 pm — 7:00 pm Samberg Salon I/T/West



Conference Program: Thursday, June 4

WELCOME BY THE ISA PRESIDENT | John Paul MacDuffie

PLENARY I

9:00 am — 10:30 am

Samberg Salon MIT

BREAK

10:30 am — 10:45 am

Samberg 6th Floor Lobby

PANEL SESSIONS I

10:45 am — 12:00 pm

See Program Details

LUNCHEON & PLENARY II

12:15 pm — 1:30 pm

Samberg Salon MIT

PANEL SESSIONS II

1:45 pm — 3:00 pm

See Program Details

BREAK

3:00 pm — 3:15 pm

Samberg 6th Floor Lobby

SPECIAL FEATURE I

3:15 pm — 4:15 pm

Samberg Salon MIT

PANEL SESSIONS III

4:30 pm — 5:45 pm

See Program Details

ISA ANNUAL CONFERENCE RECEPTION & AWARDS PRESENTATION

6:00 pm — 7:30 pm

Salon MIT



Thursday, June 4

9:00—10:30 am

Panelists' Bios

PLENARY I: The Work of the Future

Advances in artificial intelligence, robotics, and other related technologies are creating new technological capabilities that can both replace and enhance human physical and increasingly, cognitive activities. This creates significant possibilities for reimagining and redesigning work, enhancing the human-technology interface, increasing the connectivity within supply chains, and many other positive implications for workers, firms and society at large. But it also generates uncertainty and anxiety about the future of work, and whether technological change can be harnessed to benefit everyone. David Mindell, co-chair of MIT's Work of the Future Initiative, and Tom Kochan, from MIT Sloan's Institute of Work and Employment Studies, will lead a multidisciplinary panel in addressing these issues.

Moderator: David Mindell

Moderator: Tom Kochan

DRAFT



Thursday, June 4
12:15—1:30 pm

Panelists' Bios

PLENARY II: Reflecting on Industry Studies: 30 years of MIT Industrial Performance Center and the ISA

Richard Lester is the Japan Steel Industry Professor and Associate Provost at MIT, where he oversees the international engagements of the Institute. He is also the founder and faculty director of the Industrial Performance Center (IPC) as well as founding member of the Industry Studies Association. During lunchtime remarks, Professor Lester will describe the evolution of the IPC, its linkage to ISA, what has been learned from the evolution of both organizations, and what we hope the next 30 years will bring for them as well as all of us who engage in industry studies.



Richard Lester

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Thursday, June 4

3:15—4:15 pm

Panelists' Bios

SPECIAL FEATURE I: Globalization, Norms, and Integrity: The Case of Pharmaceuticals

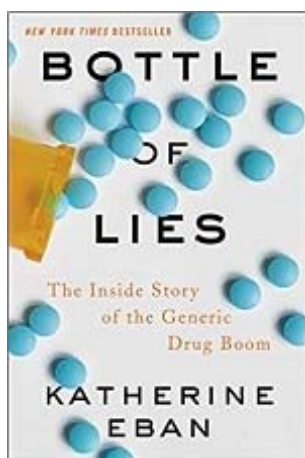
Does there exist a "Future of Work" in which a global set of norms exist, and are consistently adopted? Katherine Eban will discuss her 2019 New York Times Best Seller, *Bottle of Lies*, in which she uncovers the fraudulent activities of many manufacturers of generic medicines. Eban and discussants will consider to what extent fraudulent work practices and threats to integrity-based norms are unique to the pharmaceutical industry; and/or simply another manifestation of differing norms around the globe. They will then debate the path to consistent adoption of global norms, and the extent to which it will be driven by governments, non-governmental organizations, and/or industry

Facilitator: John Gray



Author: Katherine Eban, an investigative journalist, is a *Fortune* magazine contributor and Andrew Carnegie fellow. Her articles on pharmaceutical counterfeiting, gun trafficking, and coercive interrogations by the CIA, have won international attention and numerous awards. Her second book *Bottle of Lies: The Inside Story of the Generic Drug Boom* (Ecco/HarperCollins 2019) is a *New York Times* bestseller. Educated at Brown University and Oxford, where she was a Rhodes Scholar, Eban lives in Brooklyn, New York, with her husband, two daughters and Newfoundland dog Romeo.

Richard Saynor, CEO Sandoz



Thursday, June 4

BREAK 10:30 am — 10:45 am

Samberg 6th Floor Lobby

PANEL SESSION ONE 10:45 am—12:00 pm

1A: Integrating New Technologies into the Energy Sector (EP&S)

Location

Chair:

Increasing Demand and a Tradeoff Between Speed-Cost Efficiencies and Total Profits
Minjae Lee (Southern Connecticut State University)

Institutional Embeddedness, Behavior and Performance Implications: A Comparative Study of Chinese and German Solar PV Industries During Market Transitions

Steven White (Tsinghua University)

Wei Zhang (Tsinghua University)

Michael Nauruschat (technical University of Berlin)

Integration of Smart Grid Technologies by Electric Utilities; Patterns, Motivations, Challenges, Success Factors, Practices and Influence of the Field

Ehsan Sabaghian (Syracuse University)

Jason Dedrick (Syracuse University)

1B: Patients and Professions (H)

Location

Chair:

A Mixed-Method Study: Does Quality of Patient Care Affect Patient Satisfaction in U.S. Inpatient Acute Care Hospitals?

Jennifer Wilbers (A.T. Still University of Health Sciences)

Lihua Dishman (A.T. Still University of Health Sciences)

John Fick (A.T. Still University of Health Sciences)

Why is Operational Succession Planning Important to Managing Employee Turnover in the United States Healthcare Services Industry?

Heather Moore (A.T. Still University of Health Sciences)

Lihua Dishman (A.T. Still University of Health Sciences)

John Fick (A.T. Still University of Health Sciences)

The Job of Being a Patient

Michael Anne Kyle (Harvard Business School)

The Impact of Acquisitions on Clinical Decisions: Evidence from Physician Practice Management Companies

Ambar La Forgia (Columbia University)

When Innovative Practices Impact on Professions: New forms of Collaborations Between Nurses and Physicians

Paola Roberta Boscolo (Bocconi University)

James Barlow (Imperial College Business School)



1C: Manufacturing, Robots, and Changing vs. Disappearing Jobs (LMO&ER) **Location**

Chair: Andrew Stettner (The Century Foundation)

Workforce Education—Ready for Retooling in Manufacturing and Beyond
William Boone Bonvillian (MIT)

How Choices About Work Organization and the Division of Labor May Shape Manufacturing Work of the Future
Christophe Combemale (Carnegie Mellon University)
Erica Fuchs (Carnegie Mellon University)

How Robots Are Beginning to Affect Workers and Their Wages
William M. Rodgers III (Rutgers University)
Richard Freeman (Harvard University)

Workplace Automation and the Gender Gap in Human Capital
Amanda Chuan (Michigan State University)

Exactly Your Grandpa's Shoes: Historical Legacies of Place in Revitalizing a Decimated Industry
Sunasir Dutta (University of Minnesota)

1D: Social Entrepreneurs and Problem Solvers (I&E) **Location**

Chair:

Seeing Parochially And Acting Locally: Social Exposure, Problem Identification And Social Entrepreneurship
Sunasir Dutta (University of Minnesota)

Improving the Small Business and Entrepreneurship Support System in Distressed Urban Areas
Darwin Gray (Initiative for a Competitive Inner City)
Chris Scott (Initiative for a Competitive Inner City)
Howard Wial (Initiative for a Competitive Inner City)

A Time & Place: Experimentation, Circumvention, and the Role of Aid Agencies In Industry & Market Creations
Sonali K. Shah (University of Illinois at Urbana-Champaign)

The Roles of Ecosystem Incumbents on Social Entrepreneurship: A Semiotic Approach
Sang-Joon Kim (Ewha Womans University)
Jaehong Park (Chung-Ang University)
Jihyeon Lee (Ewha Womans University)

Entrepreneurship, Identity, and the Poor
David L. Bodde (Clemson University)
Caron St. John (University of Alabama, Huntsville)



1E: Technological Change and Incumbent Response (TM)

Location

Chair:

Product Strategy in a Nascent Market: The Effect of Complementary Products on New Product Design
Cameron D. Miller (Syracuse University)

Integrating TAM and COR Theories to Exploring Workers Use Behaviors Toward an AI-Enabled Assistance System

Nien-Chi Liu (National Central University & Pervasive Artificial Intelligence Research (PAIR) Labs)

Yi-Ting Lin (National Central University & Pervasive Artificial Intelligence Research (PAIR) Labs)

Yung-Chun Wang (National Central University & Pervasive Artificial Intelligence Research (PAIR))

Technology Convergence of Emerging Sectors: An Empirical Study on the Technology Fusion of Intelligent Technologies

ShihHsin Chen (National Chiao Tung University)

Tsung-Yu Chen (National Chiao Tung University)

Chi-Ching Lin (National Chiao Tung University)

Thanh Tri Nguyen (National Chiao Tung University)

Ecosystem Bottleneck Evolution and Value Creation in the Online Video Ecosystem

Jang, Jungyoon (University of Pittsburgh)

John E. Prescott (University of Pittsburgh)

Upstream and Downstream Capabilities of Incumbents: A Conceptual Framework for Navigating a Disruptive Technological Change

Xi Zhang (New Jersey Institute of Technology)

1F: Preparing for the Future of Work (LMO&ER)

Location

Chair:

Engineering Technology Student Perception and Knowledge of Future Workplace Skills and Career Desires: A Qualitative Case Study

Kristin K. Frady (Clemson University)

Claretha Hughes (University of Arkansas)

Daniel Stockwell (Clemson University)

The Future of Work

Matt Poepsel (The Predictive Index)

Characteristics of the Work of the Future

Wendy Chen (George Mason University)

1G: Learning and Decision Making in Operational Systems (O&SN)

Location

Chair:

Adaptation of Business Models to Industry Evolution: Case of Dell and Global Personal Computer Industry

Shardul S. Phadnis (Malaysia Institute for Supply Chain Innovation)

Organizational Inefficiencies: A Knowledge-Based Examination in Medical Device Manufacturing

Jeffrey Macher (Georgetown University)

Taming the Bull: Mitigation of Inventory and Ordering Amplification in Multi-Echelon Supply Chains

James Paine (MIT)

An Analysis of Shopping Activity at Warehouse-Club Stores and Its Network-Density Implications

Stanley Lim (University of San Diego)

It May be Time to Clean out the Clutter: Defining Product Deletion from the Viewpoint of Academics and Practitioners

Jatinder N. D. Gupta (University of Alabama in Huntsville)

Qingyun Zhu (University of Alabama in Huntsville)



Thursday, June 4

1H: Exploring Skills Required for a VUCA Future (GIS)

Location

Chair: Jeanne Enders (Portland State University)

The Implications of Interdisciplinary R&D for Research Productivity: The Role of Knowledge Variety and Dissimilarity in the Presence of Complementarities

Melissa Appleyard (Portland State University)

Turanay Caner (North Carolina State University)

Three Paradigms for Educating Leaders for a VUCA Future in Business

Jeanne Enders (Portland State University)

Albrecht Enders (Endersgroup)

Bringing Futures/Foresight Thinking to the Social Work Profession - Focus on the Future of Health, Equity and Care

Laura Burney Nissen (Portland State University)

1I: Roundtable Discussion: Inequality and Work—Looking Ahead (LMO&ER) Location

In the last two years, the UC-Berkeley Labor Center, partnership Working Partnerships USA, has commissioned a series of industry studies, including on trucking, warehouses and logistics, retail trade, and food distribution (from store bought to home delivery) <http://laborcenter.berkeley.edu/topic/future-of-workers/>. The Center's and WPUSA's approach has also emphasized the importance of worker and union input into debate and implementation of new technologies, organizing for example a summit on "The Future of Workers" in February 2020.

IWPR has conducted several recent studies on women and the future of work available at <https://iwpr.org/publications/women-automation-future-of-work/> and https://iwpr.org/publication_types/report/. IWPR and Dr. Childers also focus much of their research on inequality including based on gender and race and in partnership with Aspen Institute's Economic Opportunities program.

Like other states, Pennsylvania has begun to consider potential challenges and opportunities for state government from the future of work and the ripple effects across programs, social benefits/protections, and agencies—all of them premised to some degree on possibly outdated assumptions about full-time employment as the "norm." The PA Department of Labor & Industry is also a participant in the National Governors' Association On-Demand Economy project.

The Institute for Work & the Economy organized a national conference in Chicago on "Many Futures of Work" in October 2017, edited papers from which will appear in a forthcoming book. Creticos and the Institute are also partners to a National Governors Association project with nine states (Alabama, Colorado, Connecticut, Hawaii, Illinois, Maryland, New Jersey, Pennsylvania and Virginia) that seeks to understand the on-demand economy and identify policies that would increase economic opportunity for on-demand workers.

Chair: Stephen Herzenberg (Keystone Research Center)

Panelists:

Katie Corrigan (AFL-CIO)

Lisa Kresge (UC Berkeley Labor Center)

Jesse H.F. Hammerling (UC Berkeley)

Peter Creticos (Institute for Work & the Economy)

Chandra Childers (The Institute for Women's Policy Research (IWPR))

Thomas Foley (Pennsylvania Dept. of Labor & Industry)

Kelly Martini (Pennsylvania Dept. of Labor & Industry)



Thursday, June 4

LUNCHEON & PLENARY II

12:00 pm—1:30 pm

Location

PANEL SESSION TWO 1:45 pm—3:00 pm

2A: A Path to Energy Transition (EP&S)

Location

Chair:

Developing the Elusive Construct of Speed-cost Efficiency
Minjae Lee (Southern Connecticut State University)

Recovering Oil and Natural Gas From Deep Shale Layers
Frederick H. Abernathy (Harvard University)

Community Solar Programs: Factors Influencing Adoption Trends and Patterns
Ekundayo Shittu (The George Washington University)
Dor Hirsh Bar Gai (The George Washington University)
Carmen Weigelt (Tulane University)

Ready...Set...No! Canada's Failure to Get Out of the Oil and Gas Pipeline Starting Blocks: Is there a Path Forward?

Robert Mahnic (UGSM - Monarch Business School Switzerland)

Investing in Energy Transition: A Firm's Perspective
Sofia Berdysheva (TUM School of Management)
Svetlana A. Ikonnikova (TUM School of Management)

2B: Work of the Future in Eds and Meds (LMO&ER)

Location

Chair: Francoise Carre (University of Massachusetts Boston)

The Future of Work in Healthcare
Linda Rhodes (Public Works)

In Search of an Inclusive Model for the AI Economy
Denise Dowell (Keystone Research Center)
Stephen Herzenberg (Keystone Research Center)

Technological Change in Healthcare Delivery
Adam Seth Litwin (Cornell University)

Corporate Social Responsibility to Employees with the Onset of Artificial Intelligence
Arlene J. Nicholas (Salve Regina University)



2C: Technology Absorption and Diffusion (G:M&PI)

Location

Chair:

Business Networks and Enclave Formation: Why Foreign Investment Fails to Transfer Technology
Michael Murphree (University of South Carolina)

Market Coverage, Competitive Pressure, or Risk Reduction? Exploring the Interplay of Multi-level Drivers of International Technology Diffusion

Xue Gao (University of Miami)

Yi Zhang (University of Technology Sydney)

Work of the Future—The Case of Brazil

Timothy Sturgeon (Massachusetts Institute of Technology)

Alejandro Frank (Organizational Engineering Group (NEO))

Nestor Alaya (Organizational Engineering Group (NEO))

Erico Marcon, PhD Candidate (Organizational Engineering Group (NEO))

Creating Value from Analytics: What Worked for A Global Technology Leader?

Suryanarayanan Krishnamoorthi (Idyafactory Technologies Private Limited)

Saji K. Mathew (Indian Institute of Technology Madras)

2D: The Digital Age of Entrepreneurship and Innovation (I&E)

Location

Chair:

The Platform Economy Matures: Pervasive Power, Private Regulation, and Dependent Entrepreneurs
Martin Kenney (University of California, Davis)

Growth by Acquisitions: Why do Successful Digital Corporations Tend to Grow Through Acquisitions?

Dev K. Dutta (University of New Hampshire)

Kunal Y. Sevak (Fort Hays State University)

How Digital Tools are Radically Changing Innovation Work, and the Consequences for Workers and for Education

Sebastian Fixson (Babson College)

Tucker Marion (Northeastern University)

Measuring the Digital Entrepreneurial Ecosystem: a Global Perspective

Abraham Song (George Mason University)

Zoltan J. Acs

Normalized Trust: Examining Trust Production in Platform-mediated Interorganizational Relationships

Arvind Karunakaran (McGill University)

2E: Industry Evolution (TM)

Location

Chair:

Overcoming the Downsides of Personal Internet and Cell Phone use in the Workplace: An Exploratory Empirical Analysis

Kaustav Misra (Central Connecticut State University)

Zooming In or Zooming Out: Entrants' Product Usage Breadth in the Nascent Drone Industry

Mahka Moeen (UNC-Chapel Hill)

Anavir Shermon (UNC-Chapel Hill)

Strategic Automation and Decision-making Authority

Pinar Yildirim (University of Pennsylvania)

Alex Jacquillat (MIT)

Mustafa Dogan (MIT)

The Power of Data Science: IBM in Agribusiness - The Gallo Winery Case

Velma Lee (Palm Beach Atlantic University)

Richard S. Morris (Williamsburg Artificial Intelligence Institute of Technology and Training)

Barbara Vanderwerf (Palm Beach Atlantic University)

China, Robotization, and the Future of Manufacturing

Xiaoran Chen (Harvard Law School)

Dora Sari (Harvard Law School)



Thursday, June 4

2F: The Implications of Workplace Transformation: Technological Change, Supply Chain Systems, and Flexible Work Reforms (LMO&ER)

Location

Chair:

New Technology, New Hierarchy? Implications of Product and Process Innovations in Optoelectronics for the Division of Problem Solving

Christophe Combemale (Carnegie Mellon University)
Kate S. Whitefoot (Carnegie Mellon University)
Laurence Ales (Carnegie Mellon University)
Erica R.H. Fuchs (Carnegie Mellon University)

Technological Change and Skill Demand: Changing the Divisibility of Tasks and the Intensity of Performance

Christophe Combemale (Carnegie Mellon University)
Laurence Ales (Carnegie Mellon University)
Kate S. Whitefoot (Carnegie Mellon University)
Erica R.H. Fuchs (Carnegie Mellon University)

Worker "Upskilling" in an Age of Insecurity: The Introduction of Flexible Work Reforms in a U.S. Automaker

Claire McKenna (Massachusetts Institute of Technology)

Is Additive Manufacturing an Upskilling or Deskilling Technology? Evidence from Job Vacancies

Avner Ben-Ner (University of Minnesota)
Ainhua Urtasun (Public University of Navarra)
Bledi Taska (Burning Glass Technologies)

Spatial Patterns and Quality Trends in Sustainable Food Systems Labor—Between the Farm and the Fork

Sophie Kelmenson (UNC Chapel Hill)

2G: User Entrepreneurs and Communities (I&E)

Location

Chair:

A Little Help From My Friends: The Effects of Receiving Assistance on Participation in Online Knowledge-Sharing Communities

Eunkwang Seo (University of Illinois at Urbana-Champaign)
Frank Nagle (Harvard University)
Sonali Shah (University of Illinois at Urbana-Champaign)

Transforming China's Subway Systems: A User Led Innovation Perspective

Xudong Gao (Tsinghua University)

Designing for Building-User Interactions: Emerging Opportunities

Andrzej Zarzycki (New Jersey Institute of Technology)

User Before Entrepreneur: When User Motive Can Signal Commitment to Customers

Hyejun Kim (HEC Paris)
Jaekyung Ha (EM Lyon)

2H: Growth in Industries and Contracting and Pricing for Sustainability (GIS)

Location

Chair:

What Drive Growth and Dispersion of the Chinese Professional Accounting Industry?

Lerong He (State University of New York at Brockport)

Economies of Growth in Spanish Companies and Industries

Miguel A. Arino (University of Navarra)

Jacqueline L. Doyle (University of Virginia)

Future of Jobs and the San Francisco Bay Region--How Will AI and Changing Employment Structure Affect Silicon Valley's Growth Engine?

Cynthia Kroll (Retired--University of California Berkeley)

Aksel Olsen (Association of Bay Area Governments and Metropolitan Transportation Commission)

Shijia Bobby Lu (Association Bay Area Governments and Metropolitan Transportation Commission)

Getting Control of Rental Contracts: Incentivizing Property Management Firms to find High Quality Renters

Anna G. Devlin (Drexel University)

Jatinder N. D. Gupta (University of Alabama in Huntsville)

Cookie-cutter Competition? Non-price Strategies of Multiproduct Firms Under Uniform Pricing

Gianluca Antonecchia (Erasmus School of Economics)

Ajay Bhaskarabhatla (Erasmus School of Economics)

2I: Perspectives on the Revived Interest in Federal Industrial Policies (GIS)

Location

Chair: Andrew Reamer (The George Washington University)

Presentation of the Current Thinking of Senator Marco Rubio Regarding the Importance and Nature of a Revived Federal Industrial Policy

Chris Griswold (Senior Policy Adviser, Senate Small Business and Entrepreneurship Committee)

Presentation of the Current thinking of Democratic Senators, Including Senators Schumer and Coons, Regarding the Importance and Nature of a Revived Federal Industrial Policy

Jon Cardinal (Director of Economic Development, Office of the Senate Minority Leader) [Invited]

Presentation on Current Activities of the Office of Science and Technology Policy and Congress to Design and Implement Federal Policies that Support Industries of the Future

Lynne E. Parker (Deputy Chief Technology Officer of the United States and Assistant Director, Artificial Intelligence, Technology Division [TECH], Office of Science and Technology Policy) [Invited]

Presentation on U.S. Department of Commerce Investments in Regional Industrial Cluster Strategies, 2014-2020

Craig Buerstatte (Acting Director, Office of Innovation and Entrepreneurship, Economic Development Administration, Department of Commerce) [Invited]



Thursday, June 4

BREAK 3:00 pm—3:15 pm

Samberg 6th Floor Lobby

SPECIAL FEATURE 3:15 pm — 4:15 pm

Samberg Salon MIT

PANEL SESSION THREE 4:30 pm — 5:45 pm

3A: Global Value Chains in the Trade War: Interdependencies and Sustainability in the Mobile Telecommunications Industry (G:M&PI)

Location

Chair: Timothy Sturgeon (MIT)

Trade War Politics and Policy: Mapping Supply-Chain Vulnerabilities in the Mobile Telecommunications Industry

Eric Thun (Oxford University)

Timothy Sturgeon (MIT)

The Geography of Value added in Mobile Phone Handsets: Setting the Benchmark for 2015 in Terms of Technology Content and Manufacturing Locations

Timothy Sturgeon (MIT)

Eric Thun (Oxford University)

Value Creation and Value Capture Through Standard-Setting: The Case of Mobile Telecommunications

Jing-Ming Shiu (National Cheng Kung University)

Masanori Yasumoto (Yokohama National University)

Yu-Hsuan Lai (National Cheng Kung University)

Yao-Ting Huang (National Cheng Kung University)

The Impact of Firm-Level Open-Source Contributions to Android on Time to Market

Jing-Ming Shiu (National Cheng Kung University)

Iok-Tai Pou (National Cheng Kung University)

Chun-Ping Ma (National Cheng Kung University)

Yi-Ying Chao (National Cheng Kung University)

3B: Systems Markets Policies (H)

Location

Chair:

Global Drug Diffusion and Innovation with a Patent Pool: The Case of HIV Drug Cocktails

Lucy Xiaolu Wang (Cornell University)

Environment Uncertainty, Health Investment and Economic Growth

Marco Cucculelli (University Politecnica delle Marche)

Yu Sun (London School of Economics & University de Louvain)

Yi Zhu (University de Louvain & University Politecnica delle Marche)

Productivity, Prices and Market Shares in Multiproduct Firms

Gianluca Antonecchia (Erasmus School of Economics)

Ajay Bhaskarabhatla (Erasmus School of Economics)

How are the Kids Doing?: Examining Divested Unit Performance

Patia J. McGrath (University of North Carolina at Chapel Hill)

Shirish Sundaresan (University of North Carolina at Chapel Hill)

Atul Nerkar (University of North Carolina at Chapel Hill)

Integrating Social and Health Care Services into Strategic Decision-Making - A Network Analysis of Stakeholders' Positions and Perspectives

Patrik Nordin (University of Tampere)



3C: Improving the Future of Work for Low-Wage Workers: Perspectives from Multiple Industries (LMO&ER)

Location

Chair: Paul Osterman (MIT)
Barbara Dyer (MIT)

The Trouble With Trucking: How Low-Road Strategies Work in the Transportation Industry
Steve Viscelli (University of Pennsylvania)

The Quality of Jobs in Restaurants
Rosemary Batt (Cornell University)
Tashlin Lakhani (Ohio State)
Jae Eun Lee (Ithaca College)
Can Ouyang (Cornell University)

Residential Construction
Dale Belman (Michigan State)
Russell Ormiston (Allegheny College)
Julie Brockman (Michigan State)
Matt Hinkel (Michigan State)

Retail Jobs: What Pathways for Improvement?
Francois Carré (University of Massachusetts Boston)
Chris Tilly (University of California, Los Angeles)

3D: The Emergence of Entrepreneurial Regions (I&E)

Location

Chair:

Crossing Borders: Young Entrepreneurs and the Lure of Major Cities
Michael Murphree (University of South Carolina)

Regional Industry Emergence and the Differential Role of Financing
Paige Clayton (University of North Carolina at Chapel Hill)
Maryann Feldman (University of North Carolina at Chapel Hill)
Benjamin Montmartin (SKEMA Business School)

Global Spatial Biotechnology Industry Emergence: Institutional Effects on Entrepreneurship
Gregory Theyel (California State University)

Does Money Buy Research Excellence? Evidence from the German "Clusters of Excellence" Program
Jeffrey L. Furman (Boston University)
Hanna Hottenrott (Technische Universität München & ZEW-Mannheim)
Maikel Pellens (University of Ghent & ZEW-Mannheim)

Incubating in the Periphery: Asset Creation in Emerging Industries
Adams Nager (University of North Carolina at Chapel Hill)
Paige Clayton (University of North Carolina at Chapel Hill)
Maryann Feldman (University of North Carolina at Chapel Hill)

3E: Unpacking Status, Networks, and Relational Dynamics at Work (LMO&ER) Location

Chair:

The Micro-Organization of Academic Research: An Exploratory Study
Sarah Bratt (Syracuse University School of Information Studies)

Who do Men and Women go to for Help at Work? Homophily in Advice Networks and the Task-Level Organization of Work
Roman V. Galperin (Johns Hopkins University)
Jennifer Merluzzi (The George Washington University)

Navigating Status-Authority Asymmetry Between Professions
Arvind Karunakaran (McGill University)

Beyond Autonomy? In Search of Community and Agency in Professions of the Built Environment
Joris Gjata (University of Colorado Boulder)
Matthew Rowe (University of Colorado Boulder)
Shawhin Roudbari (University of Colorado Boulder)



3F: Advanced Technologies in Manufacturing: Adoption, Management, and Use (LMO&ER)

Location

Chair: Jenna Myers (MIT)

Lessons from the German Robotics Ecosystem: Enablers, Hurdles, and Next Directions

Lindsay Sanneman (MIT)

Christopher Fourie (MIT)

Complements or Substitutes? Firm-Level Management of Labor and Technology

Susan Helper (Case Western Reserve)

Raphael Martins (NYU)

Robert Seamans (NYU)

Worker Voice 4.0: Direct Versus Indirect Vendor Channels and the Scaling of Worker Voice Around Digital, Networked Technologies

Jenna Myers (MIT)

Robot Adoption among U.S. Manufacturers: Firm and Geographic Differences

Nancy Green Leigh (Georgia Institute of Technology)

Heon Yeong Lee (Georgia Institute of Technology)

Benjamin Kraft (Georgia Institute of Technology)

China, Robotization, and the Future of Manufacturing

Xiaoran Chen (Harvard Law School)

Dora Sari (Harvard Law School)

Wertheim Fellow (Harvard Law School)

3G: Funding Entrepreneurial Ventures (I&E)

Location

Chair:

Fin vs. Tech: How Does New Knowledge Creation and Lack of Trust in Financial Services Incumbents Influence the Emergence and Financing of Fintech Start-Ups?

Theodor Cojoianu (University College Dublin and University of Oxford)

Gordon Clark (University of Oxford)

Andreas Hoepner (University College Dublin)

Vladimir Pazitka (University of Oxford)

Dariusz Wojcik (University of Oxford)

Does Venture Capital Ownership Disappear After IPO? The Role of Post-IPO VC Ownership to Newly Public Firms Outcomes

Sukwoong Choi (University of Kentucky)

Heejin Woo (California State University, Fullerton)

Social Platforms as Substitutes and Complements to Social Networks: How Accelerators Impact Venture Investment Syndicates

Susan Cohen (University of Georgia)

Ben Hallen (University of Washington)

Spanning Two Worlds? Corporate Accelerators and Corporate Venture Capital in Innovation Portfolios

Sheryl Winston Smith (BI Norwegian Business School)

Impact of Platform Venture Capital Investments on the Introduction and Withdrawal of Complementary Products

Joey van Angeren (Vrije Universiteit Amsterdam)

Arvind Karunakaran (McGill University)



Thursday, June 4

3H: Industry Dynamics in a Digitalizing World and the Role of Data (GIS)

Location

Chair: Eleanor Westney (Massachusetts Institute of Technology)

Struggling to Remain Relevant and Competitive: Japanese Department Stores Facing Globalization and Digitalization

Rika Fujioka (Kansai University)

Digitalization, Geographical Shifts and Resilience: The Changing Sources of Competitiveness in the Global Pulp and Paper Industry

Takafumi Kurosawa (Kyoto University)

Driven by and Driving Digitalization: The Consulting Industry in India

Matthias Kipping (Schulich School of Business, York University)

Value of Data: There's No Such Thing as a Free Lunch in the Digital Economy

Wendy Li (U.S. Bureau of Economic Analysis)

Makoto Nirei (University of Tokyo)

Kazufumi Yamana (Kanagawa University)

Data-driven Creative Destruction: Online Platform, Digital Transformation, and Sustainability

Wendy Li (U.S. Bureau of Economic Analysis)

Makoto Nirei (University of Tokyo)

Kazufumi Yamana (Kanagawa University)

3I: The Evolving Automobile and Rail Industries (GIS)

Location

Chair:

Concentration in the US Auto Market: 1990—2019

Anthony Paul Andrews (Governors State University)

Patterns of Digital Innovative Activities in the Automotive Industry: A Patent Analysis

Daniela Silvestri (Ca' Foscari University)

Anna Moretti (Ca' Foscari University)

Alessandra Perri (Ca' Foscari University)

Francesco Zirpoli (Ca' Foscari University)

Can High-Speed Rail Influence the Urban-Rural Income Equality in China? A Social Exclusion Perspective

Yu Jia (Wuhan University)

Qianyun Wang (Wuhan University)

INDUSTRY STUDIES ASSOCIATION ANNUAL CONFERENCE RECEPTION & AWARDS PRESENTATION

6:00 pm—7:30 pm

Location



Conference Program: Friday, June 5

SPECIAL FEATURE II

9:00 am — 10:00 am

Samberg Salon MIT

BREAK

10:00 am — 10:15 am

Samberg 6th Floor Lobby

PANEL SESSIONS IV

10:15 am — 11:30 am

See Program Details

LUNCHEON & PLENARY III

11:45 pm — 1:00 pm

Samberg Salon MIT

PANEL SESSIONS V

1:15 pm — 2:30 pm

See Program Details

BREAK

2:30 pm — 2:45 pm

Samberg 6th Floor Lobby

PANEL SESSIONS VI

2:45 pm — 4:00 pm

See Program Details

CONFERENCE CLOSING REMARKS & BUSINESS MEETING

4:10 pm — 5:00 pm

Samberg Salon MIT



Friday, June 5
9:00—10:00 am

Panelists' Bios

SPECIAL FEATURE II: Ghost Work: How to Stop Silicon Valley from Building a New Global Underclass

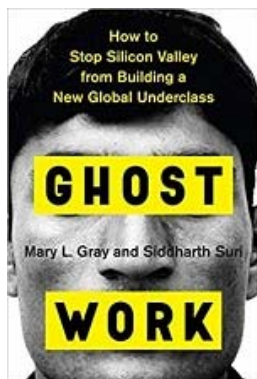
In the age of the gig economy and fissured work, the emergence of new artificial intelligence (AI) technologies have created “ghost work.” Authors Mary L. Gray and Siddharth Suri of Microsoft Research coin the term to describe the invisible labor that supports technology platforms reliant on AI. From labeling images to classification tasks to cleaning up databases, contract workers at all skill levels are engaging in project-based, task-driven work to make unstructured data structured. Gray, an anthropologist by training, as well as several discussants, will discuss the likely trajectory for this type of work given the increasing use of AI, the implications for workers and their work conditions, and potential policy responses that could “stop making our lives wrap around work, and start making work serve our lives.”

Facilitator: Jerry Jacobs

Bio needed, high resolution photo needed

Author: Mary L. Gray

Need bio and photo



Friday, June 5
11:45—1:00 pm

Panelists' Bios

PLENARY III: Pricing and Innovating: A Plenary on a Crossroad for the Biotechnology Industry

The innovation process is becoming more complex. Innovation emerges at the interstices of multiple disciplines and draws on disparate resources and data, involving multiple stakeholders who are often distributed globally. Few industries exhibit this complexity better than the biotechnology industry. In biotechnology, manufacturers, regulators, payers, providers, researchers and patients all navigate a dynamic social, political and economic environment in order to develop and make available new, more efficacious drugs for patients. For these stakeholders to work together is one challenge. Pricing the drugs which are critical to them all is – for various reasons – another challenge. This plenary will address these challenges, and how the biotechnology industry strives to create effective innovation ecosystems that serve the needs of its multiple stakeholders.

Moderator: ?

Bio needed, high resolution photo needed

Panelists?

Need bio and photo

DRAFT



Friday, June 5

SPECIAL FEATURE II

9:00 am—10:00 am

Samberg Salon MIT

BREAK 10:00 am—10:15 am

Samberg 6th Floor Lobby

PANEL SESSION FOUR 10:15 am —11:30 am

4A: Energy and Sustainability (EP&S)

Location

Chair:

Allocating Tradeable Permits in Multiple-Period Production Process: A Dynamic DEA Approach

Utsav Pandey (Indian Institute of Management, Calcutta)

Sanjeet Singh (Indian Institute of Management, Calcutta)

A Country-Level Analysis of Mobile Phones and Environmental Sustainability

Namchul Shin (Pace University)

Jason Dedrick (Syracuse University)

Owning Windfarms or Sourcing for Wind Energy: The Role of Contractual Hazards and Capabilities in the Supply-Side Market for Wind Energy

Ekundayo Shittu (The George Washington University)

Carmen Weigelt (Tulane University)

Geoffrey Parker (Dartmouth College)

4B: Technology and Future of Healthcare (H)

Location

Chair:

Technological Bargaining Power: The German Care Crisis and its Consequences for the Implementation of Digital Technologies

Peter Wegenschimmel (Regensburg University of Applied Sciences)

Technological Change in Healthcare Delivery: Its Drivers and Consequences for Work & Workers

Adam Seth Litwin (Cornell University)

Enhancing Innovation in Multi-party Coopetition through Federated Machine Learning

Jennifer Woolley (Santa Clara University)

AI in Collaborative Groups

Vincent Rice (Brown University)

Chester Spell (The State University of New Jersey)

Terri Griffith (Simon Fraser University)

Katerina Bezrukova (University at Buffalo)

Evangeline Yang (University at Buffalo)

The Future of Work for Health Informatics and Information Management Professionals

Susan Fenton (UT School of Biomedical Informatics)

Karima H. Lalani (RHIATexas State University)



4C: Institutional Innovations in the Manufacturing Ecosystem: New State and Regional Programs to Combat Old Problems (GIS) **Location**

Chair: Elisabeth Reynolds (Massachusetts Institute of Technology)

Moderator: Barbara Dyer (MIT, Good Companies, Good Jobs)

Respondent: Ira Moscovitz (Director of Advanced Manufacturing Programs at the Mass Tech Innovation Institute)

The US Manufacturing Ecosystem: What Has Changed Since the Great Recession?

Daniel Traficonte (MIT)

Elisabeth Reynolds (MIT)

Anna Waldman-Brown (MIT)

Genesis at Work: Advancing Inclusive Innovation through Manufacturing Extension

Nichola Lowe (UNC Chapel Hill)

Greg Schrock (Portland State)

Ranita Jain (Aspen Institute)

Maureen Conway (Aspen Institute)

Cultivating Communities: When and Why Employers Engage in Workforce Development Programs

Jenna Myers (MIT)

Rebuilding the U.S. Manufacturing Ecosystem

William Bonvillian (MIT)

4D: Entrepreneurs and Their Strategies (I&E) **Location**

Chair:

Threats to the Future of Work: Discovering New Uses for Existing Innovations

Rebecca Karp (Boston University)

Learning from External Advice: How do Entrepreneurs Decide to Pursue a Broad or Focused Strategy?

Amisha Miller (Boston University)

Siobhan O'Mahony (Boston University)

Susan Cohen (University of Georgia)

Entry into Misfit Markets: Evidence from the Solar Photovoltaic Industry

Mara Guerra (Imperial College Business School)

Non-Action as Entrepreneurial Choice

Mirva Peltoniemi (University School of Business and Economics, Finland)

Juha-Antti Lamberg (University School of Business and Economics, Finland)

Endowing University Spin-Offs Pre-Formation: Entrepreneurial Capabilities for Scientist-Entrepreneurs

Jon Thomas (University of the Fraser Valley, Canada)

Martin Bliemel (University of Technology Sydney, Australia)

Cynthia Shippam-Brett (National Research Council of Canada)

Elicia Maine (Simon Fraser University, Canada)

Friday, June 5

4E: R&D and Patents and Alliances (TM)

Location

Chair:

Determinants of M&A Partnership Selection in Global Biomedical Industry

ShihHsin Chen (National Chiao Tung University)

Simon Huang (National Chiao Tung University)

Disciplinary Regime or Freedom Strike? Termination Rights in R&D Alliances

Marvin Hanisch (University of Groningen)

Litigating Monetization and Patent Trolls: Evidence from the Patent Market

Mingtao Xu (Purdue University)

Alliance Portfolio Diversity and Firm Performance in the Automobile and Telecommunications Industries

Michael D. Santoro (Lehigh University)

4F: Moving Futures: Trucking, Warehousing, Autos, Airplanes (LMO&ER)

Location

Chair: Jessie HF Hammerling (University of California, Berkeley)

Driverless? Policy, Worker Power and the Future of the American Trucker

Steve Viscelli (University of Pennsylvania)

The Future of Warehouse Work Are "Dark" Warehouses, Humming Along Without Humans, Just Around the Corner?

Beth Gutelius (University of Illinois at Chicago)

Nik Theodore (University of Illinois at Chicago)

Big Shi*t Coming: EVs, AVs, and Auto Industry Employment * Insert "h" for Risk-Accepting Executives, Entrepreneurs, and Investors; Close up Space for Hourly Workers Without Special Skills

John Alic

The Boeing 737 MAX: The Titanic of the 21st Century?

Arnold Barnett (MIT)

4G: Exploring Design and Governance of Inter-Organizational Relationships (O&SN)

Location

Chair:

Interpartner Legitimacy Building During the Formation of a Multiparty Alliance

Renate Taubeneder (University of Bath)

Jens Roehrich (University of Bath)

Brian Squire (University of Bath)

Governance Mechanisms in Interorganizational Relationships: For Better or Worse

Juliette Engelhart (University of Bath)

Jens Roehrich (University of Bath)

The Double-Edged Sword Effect of Contractual Governance on Opportunism in Global Supply Chains: Based on Legitimacy and Efficiency Logics

Yu Jia (Wuhan University)

Tao Wang (Wuhan University)

Configuring Supply Chain Dyads for Regulatory Disruptions: A Behavioral Study of Scenarios

Shardul Phadnis (Malaysia Institute for Supply Chain Innovation)

Nitin Joglekar (Boston University)



Friday, June 5

4H: A New Category of Work: "Self-Sufficient Production" Advanced by the Third Digital Revolution (GIS)

Location

Chair: Joel Cutcher-Gershenfeld (Brandeis University)

The Third Digital Revolution
Neil Gershenfeld (MIT)

Self-Sufficient Production
Joel Cutcher-Gershenfeld (Brandeis University)
Alan Gershenfeld (E-line Media)

Digital Fabrication and Innovation
Julia Hansen (Cambridge Innovation Center)

4I: Labor Markets and Employment Patterns (LMO&ER)

Location

Chair:

The Role of Migrants in the US Economy: An Analysis of Demographic and Economic Patterns
Sharmistha Bagghi-Sen (State University of New York - Buffalo)

Female Labor Participation and Public Transportation: Evidence From a Natural Experiment in Mexico
Jorge O. Moreno (Facultad de Economía, UANL)
Jaime J. Escobedo (Facultad de Economía, UANL)
Cecilia Y. Cuellar (Facultad de Economía, UANL)

State Business Incentives and Employment Growth: Evidence Across Firm Size and Age
Abraham Song (George Mason University)

Job Polarization, Digitalization and the Geography of the EU Markets
Georgios Petropoulos (MIT and Bruegel)
Sybrand Brekelmans (Bruegel)

LUNCHEON & PLENARY III

11:45 am – 1:00 pm

Samberg Salon MIT

PANEL SESSION FIVE 1:15 pm — 2:30 pm



Friday, June 5

5A: Clean Energy Innovation: Dominant Designs, Spillovers, and the Influence of Policy (EP&S)

Location

Chair: David Hart (George Mason University)

Did China's Production Surge Lead to Stranded Innovation in Solar Photovoltaics?
David Hart (George Mason University)

Catching-up in Complex Technology Industries – A Patent-Citation Network Analysis to Identify Windows of Opportunity in the Lithium-ion Battery Industry
Martin Beuse (ETH-Zurich)
Abhishek Malhotra (ETH-Zurich)
Huiting Zhang (ETH-Zurich)
Tobias Schmidt (ETH-Zurich)

A Novel Method for Identifying Breakthrough Technology Spillovers into Solar Photovoltaics
Anna P. Goldstein (University of Massachusetts and Harvard University)
Sergey Kolesnikov (University of Cambridge)
Bixuan Sun (University of Minnesota)
Gabriel Chan (University of Minnesota)
Venkatesh Narayanamurti (Harvard University)
Laura Diaz Anadon (University of Cambridge)

5B: Exploring the Consequences of Alternative Work Practices and Organizational Arrangements (LMO&ER)

Location

Chair:

Shifting the Risk: How Scheduling Practices Impact Warehouse Workers
Alexander Kowalski (MIT)
Erin L. Kelly (MIT)
Hazhir Rahmandad (MIT)

Organizational Response to Workforce Aging Across Three Industries: Tensions in Human Capital Perspectives
Peter Berg (Michigan State University)
Matthew Piszczek (Wayne State University)

Time Matters: A Temporal Instability of Employment Relations and Organizational Performance
Hyesook Chung (Cornell University)

Exploring Local Social Capital Development in Remote Work Contexts
Sarah Soroui (Brandeis University)

Nuancing the Changing Nursing Workforce's Implications for Workplace Communication
Ivan Gan (University of Houston-Downtown)



5C: The Role of National and Subnational Institutions (G:M&PI)

Location

Chair:

The New Institutional Economics Approach and Understanding Geographical Indication Supply Chains
Pelin Bicen (Suffolk University)

Union Avoidance Goes Global: The Big Three Labor & Employment Firms in the 21st Century
John Logan (San Francisco State University)

The Effect of Subnational Legal Effectiveness and Social Trust on Foreign Firm Performance: Insights from Subnational Analysis in Emerging Economies

Yu Jia (Wuhan University)

Tao Wang (Wuhan University)

Zhuang Ma (International Business School)

Jiayu Lyu (Wuhan University)

The Many Roles of Change Agency in Green Path Development

Markku Sotarauta (Tampere University)

Nina Suvinen (Tampere University)

Suyash Jolly (Lund University)

Teis Hansen (Lund University)

Policy Uncertainty and Firm Performance: Evidence From the Movie Industry

Amy Tong Zhao (Peking University)

5D: Competition and Innovation Beyond Firm Boundaries (I&E)

Location

Chair:

Enhancing Cooperative Alliance Innovation Performance: The Role of Alliance Competence and Alliance's Market Orientation

Pelin Bicen (Suffolk University)

Knowledge, Competition and Entry in the Evolution of Vertically-Related Industries

Franco Malerba (Bocconi University)

Pamela Adams (Bocconi University)

Roberto Fontana (Bocconi University)

Gianluca Cappone (Bocconi University)

The Paradox of Startup Acquisitions: Eliminating Competition and Creating New Competitors

J. Daniel Kim (University of Pennsylvania)

International Knowledge Sourcing by Foreign MNE Subunit's Innovation: Competence Creating vs Competence Exploiting

Sarah Edris (Rutgers Business School)

John Cantwell (Rutgers Business School)

What Are You Looking At? A Competition Network Lens on New Product Innovation in Enterprise Software

Sruthi Thatchenkery (University College London)

Riitta Katila (Stanford University)

5E: Evolution of Complex Systems and Technologies (TM)

Location

Chair:

Privacy Please! Avoidance of Conflicts with Data Protection Law, in the Field of Robotic Process Automation Through the Use of Digital Twins

Julian Koch (South Westphalia University of Applied Sciences, Hagen, Germany)

Michael Trampler (South Westphalia University of Applied Sciences, Hagen, Germany)

André Coners (South Westphalia University of Applied Sciences, Hagen, Germany)

The Digital Era and the Future of Work

Jerry Fjermestad (New Jersey Institute of Technology)

Stephan Kudyba (New Jersey Institute of Technology)

Evaluation and Selection of Complex Human-Machine Technologies based on Web of Systems Performance

Raja Roy (New Jersey Institute of Technology)

Cheickna Sylla (New Jersey Institute of Technology)

Learning from the WordPress Ecosystem: A Focus on Themes and a Supplemental Technology Stack

Sean M. Hackett (Aoyama Gakuin University)

Evolution of Flying and Firearms from Crafts to Sciences

Roger Bohn (UC San Diego)

5F: Workplace Learning, Training, and Certification: Implications for Organizations, Workers, and Higher Education Institutions (LMO&ER)

Location

Chair:

Exploring State Variations in Non-degree Professional Credentials

Henry Renski (University of Massachusetts Amherst)

Allison Forbes (Center for Regional Competitiveness (CREC))

Is There Power at the Margins? Large and Small Actors in Regional Training Systems

Allison Forbes (MIT)

Rethinking Workplace Learning: The Role of Academic Partnerships With Industry

Inez Von Weitershausen (MIT)

5G: The Digitalization of Operations and Supply Chain Eco-Systems (O&SN) Location

Chair:

Understanding Disruptive Technologies and Digital Supply Chain Ecosystems: Comparing Montreal and Atlanta

Diane Allewa Caceres (Georgia Institute of Technology)

Catherine Beaudry (Polytechnique Montreal)

Laurence Solar-Pelletie (Polytechnique Montreal)

Digitalisation Efforts in OSCM: Evidence from the Pharmaceutical Sector

Tomás Harrington (University of East Anglia)

Nitin Joglekar (Boston University)

Jagjit Singh Srai (University of Cambridge)

Blockchain—Construction's Next Technology Frontier

Swati Nagar (Auckland University of Technology, New Zealand)

Did e-Commerce Cause Demise of Large and Revival of Small Retailers?

Shardul Phadnis (Malaysia Institute for Supply Chain Innovation)

Changan Town: From Red-Light District to the Center of 3D Printing Services

David Li (Shenzhen Open Innovation Lab)

Clement Renaud (ENS de Lyon)



5H: Title Needed (GIS)

Location

Chair: Cristian-Andrei Gherhes (The University of Sheffield)

An Institutional Taxonomy of Adoption of Innovation in the Classic Professions
Carlo Cordasco

AI in the UK Professional Services: Exploring the Opportunities for Corporate Entrepreneurship in Legal Services Firms

Tim Vorley (Sheffield University)
Chay Brooks (Sheffield University)
Cristian Gherhes (Sheffield University)

Exploring the Differential Impacts of Tech Start-up Incubation on the Development and Diffusion of AI Legal Tech

Jorge Tiago Martins

Understanding the Impact of Professional Bodies and Sector Groups on the Adoption and Diffusion of AI in the Professions:

Insights from Law and Accountancy in the UK
Tim Vorley

Creating the Next Generation of AI-enabled Services: A Typology of Business Model Innovation in Professional Services

Cristian Gherhes (The University of Sheffield)

5I: Spotlight on Innovation in Asia (I&E)

Location

Chair:

De-Maturity Through Spin-Out—A Comparative Case Study Between U.S. and Japanese Chemical Fiber Firms

Ryuji Nitta (Hitotsubashi University)

A New Global Standard for Innovation and Entrepreneurship in the Biomedical Industry? Venture Business Case Studies from China, India, and Japan

Kathryn Ibata-Arens (DePaul University)

Entrepreneurial Externalities and the Emergence of a New Ecosystem: The Case of China's Solar Photovoltaic Industry

Steven White (Tsinghua University)
Wei Zhang (Tsinghua University)
Jianxi Luo (Singapore University of Technology and Design)

Institutional Voids, Local Governance, and Corporate Innovation: Evidence from Chinese Listed Firms

Yin Li (Fudan University)
Ruoyan Zhu (Fudan University)

Heterogeneity Among Entrepreneurs and Start-Up Survival During the Nascent Stage and Beyond in India and the U.S.

Xi Zhang (New Jersey Institute of Technology)

Friday, June 5

5J: Competing Portraits of the Gig Economy (LMO&ER)

Location

Chair:

Coworking: From Community Enthusiasms to Business Models
Steve Sawyer (Syracuse University)

Do Bloggers Pay To Be Bloggers? A Field Experiment on the Value of Autonomy among Comics Creators
Hyejun Kim (HEC Paris)
Chaerin Yun (Salem State University)

Resistance in the Age of Algorithms: A Comparative Ethnography of Workers' Resistance in Two Online Labor Markets
Lindsey Cameron (University of Pennsylvania)
Hatim Rahman (Northwestern University)

Who is participating in the Gig economy? Characteristics of workers reflected in the 2018 Survey of Household Economics and Decisionmaking
"Rosa" Hyun Kyong Lee (George Washington University)

BREAK 2:30 pm — 2:45 pm

Samberg 6th Floor Lobby

PANEL SESSION SIX 2:45 pm — 4:00 pm

6A: Accelerating Plug-In Electric Vehicle Adoption and Achieving Climate Goals (EP&S)

Location

Chair: John Paul Helveston (The George Washington University)

Accelerating Vehicle Fleet Turnover to Achieve Climate Policy Goals
Sergey Naumov (MIT)
David Keith (MIT)
John Sterman (MIT)

How Does Consumer Experience & Knowledge Affect Willingness to Adopt Plug-In Electric Vehicles?
Laura Roberson (The George Washington University)
John Paul Helveston (The George Washington University)

Real-World Patterns of Hybrid and Electric Vehicle Driving in the United States
David Keith (MIT)
Sapna Kumari (MIT)
Steven R. Gehrke (Northern Arizona University)
Tim Reardon (Massachusetts Area Planning Council)

Alternative-Fuel-Vehicle Policy Interactions Increase U.S. Greenhouse Gas Emissions
Alan Jenn (UC Davis)
Inês L.Azevedo (CMU)
Jeremy J. Michalek (CMU)

The Dynamic Costs and Benefits of a Technology-Forcing Policy Nested in a Broader Performance Standard: The Case of ZEV and CAFE
Arthur H.C. Yip (CMU)
Jeremy J. Michalek (CMU)
Kate S. Whitefoot (CMU)



6B: Protecting Workers Through Collective Action and Government Regulation (LMO&ER)

Location

Chair:

Industry 4.0, Work and Works Councils in the German Manufacturing Sector
Thomas Haipeter (University of Duisburg-Essen)

Do Workers' Compensation Programs and OSHA Enforcement Affect Fatality Rates in the Construction Industry

John Mendeloff (University of Pittsburgh)

Wayne B. Gray (Clark University)

Where is the Inspector? The Unfulfilled Role of Regulation, Monitoring and Enforcement In New Zealand Migrant Worker Protection.

Dana Anderson (Auckland University of New Zealand)

Labor's New Kids on the Block: Can Immigrant Worker Centers and Unions Collaborate to Improve Low-Wage Work?

Benjamin A. Kreider (Brandeis University)

6C: Foreign Competition FDI and Industry Structure (G:M&PI)

Location

Chair:

Taiwanese FDI and the Future of Mainland China in GVCs

Michael Murphree (University of South Carolina)

Rapid FDI of Emerging Market Firms The Role of Foreign Participation

Yuan Yuan Li (Rutgers University)

Related Diversification for Survival: Effect of Foreign Competition on Product Reallocation and Productivity

Ricardo Laverde (Carnegie Mellon University)

The Competitiveness of East Asian Companies: Studies of the "Maker-Base Standard"

Akira Tanaka (Kyoto University)

6D: Innovations in Artificial Intelligence and Automation (I&E)

Location

Chair:

The Computational Limits of Deep Learning

Neil Thompson (MIT)

Kristjan Greenewald (IBM)

Keeheon Lee (Yonsei University)

Extending Robotic Construction Processes with Sensor-Enhanced End Effectors

Andrzej Zarzycki (New Jersey Institute of Technology)

Exploring the Key Factors that Characterize Artificial Intelligence Deep and Machine Learning Technological Novelties as Process Innovation? - A Literature Survey

Amir Taherizadeh (Polytechnique Montréal)

Catherine Beaudry (Polytechnique Montréal)

Guess Who's Shaping AI: Deep Learning and the Compute Divide in Artificial Intelligence Research

Nuruddin Ahmed (Ivey Business School, Western University)

Muntasir Wahed (University of Dhaka)

AI-driven Innovative and Agile Supply Chain

Qiannong (Chan) Gu (Ball State University)

Ziping Wang (Morgan State University)



6E: Education and CSR (TM)

Location

Chair:

Access to Technology and the Digital Wave for Youth in Per Urban and Rural Communities of South Africa
Noma Nyembo (University of Pretoria)

The Impact of Oil and Gas Job Opportunities on Long Life Run Outcomes
Amanda Chuan (Michigan State University)

Farmers, Productivity and the Environment: Large-Scale Industrial Agriculture in the U.S. Midwest
Canberk Ucel (University of Pennsylvania)
John Paul MacDuffie (University of Pennsylvania)
Marshall Fisher (University of Pennsylvania)

Management Education at Crossroads: How to Teach Online Courses Effectively?
Lihua Dishman (A.T. Still University of Health Sciences)

6F: The Transportation Network Industry: Role of Gig Drivers (LMO&ER)

Location

Chair: Michael Reich (University of California, Berkeley)

Regulatory responses to gig work in the European Union
Jason Heyes (University of Sheffield, UK)
Dragos Adascalitei (University of Sheffield, UK)
Kirsty Newsome (University of Sheffield, UK)
Edward Yates (University of Sheffield, UK)

Effects of Changes in Driver Pay on the Gig Economy— Evidence from New York City Before and After Significant Regulatory Changes
Dmitri Koustas (University of Chicago)
James Parrott (New School for Social Research)
Michael Reich (University of California, Berkeley)

Regulatory Responses to Low Pay in the Driver Gig Economy: New York City, Seattle, and California
Michael Reich (University of California, Berkeley)
James Parrott (New School for Social Research)

6G: Exploring Mobility: Job Search, Internal Advancement, Retention, and Skill Demand (LMO&ER)

Location

Chair:

Stakeholder Orientation as a Quality Signal in the Labor Market: Evidence from the Post-M&A Retention of Newly Acquired Human Capital
Jang Woo Kim (Bocconi University)

How Skill Demands Affect Time-to-Hire in Different Industries and Occupations: Evidence from Applicant Tracking Data
Andrew Weaver (University of Illinois)

Promotion Potential and the Peter Principle
Alan Benson (University of Minnesota)
Danielle Li (MIT)
Kelly Shue (Yale School of Management)

Brokered Careers: The Role of Search Firms in Managerial Career Mobility
Matthew Bidwell (University of Pennsylvania)
Isabel Fernandez-Mateo (London Business School)
Kira Choi (London Business School)



Friday, June 5

6H: Pharmaceuticals: A Research-Policy Dialogue (GIS)

Location

Chair: David Hart (George Mason University)

6I: Data Work, Consortia, and the Future of Science (GIS)

Location

Chair: Joel Cutcher-Gershenfeld (Brandeis University)

Grand Challenges – Council of Data Facilities (CDF) (Inter-Organizational)

Joel Cutcher-Gershenfeld (Brandeis University)

Spencer Lewis (Brandeis University and Draper Labs)

Alignment – FAIR Data (Cross Sector)

Alysia Garmulewicz (University of Santiago, Chile)

Shelley Stall (American Geophysical Union)

Careers -- Campus Research Computing Consortium (CaRCC) (Multi-Campus)

Namchul Shin (Pace University)

Dana Brunson (Internet2)

Inclusion – Minority Serving Institutions Computing Consortium (MSI-CC) (Multi-campus)

Damian Clarke (Alabama A&M University)

Evolution – Long Term Ecological Research Network (LTER) (Multi-site)

Karen Baker (University of Illinois, Urbana-Champaign)

Title Needed

Barbara Mittleman (National Institutes of Health)

CONFERENCE CLOSING REMARKS & BUSINESS MEETING

4:10 pm — 5:00 pm

Samberg Salon MIT

Conference Concludes at 5:00 pm



Industry Studies Association

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