

**The 12th International Symposium
on Human Capital and Labor Markets**

--Celebrating the Release of the China Human Capital Report 2020

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Beijing, China

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Central University of Finance and Economics (CUFE)

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第十二届人力资本国际研讨会 暨 2020 年中国人力资本报告发布会

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中国北京

中央财经大学
中国人力资本与劳动经济研究中心
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CHINA CENTER FOR HUMAN CAPITAL AND LABOR MARKET RESEARCH

Established in March 2008, the China Center for Human Capital and Labor Market Research (CHLR) at the Central University of Finance and Economics (CUFE) is part of a Special Platform for Advance Programs at the CUFE. It is an international research center for the study of human resources, labor markets, and their impact, focusing on China and related economies.

Nobel Laureates James Heckman, and Professor Dale W. Jorgenson of the Harvard University and the founder of the income-based method for measuring human capital, serve on the Advisory Board.

All faculty and research fellows of the CHLR hold a Ph.D. degree in economics from major universities in North America and Europe, and all visiting professors are tenured professors from major U.S. universities. Currently the Center has 8 full-time faculty members, 7 special term professors, and 10 senior research fellows. Among the teachers, there are 7 special term professors 1 associate professor and 7 assistant professors.

The major research areas in the Center include but are not limited to human capital investment; its measurement and impact; education, health; innovation, entrepreneurship; and labor market outcomes and labor-related government policy.

The CHLR has master's, doctoral and post-doctoral programs. The Center's graduate programs are internationally oriented. The curriculum and instruction are rigorously designed following research universities in North America. All courses are taught in English.

中央财经大学

中国人力资本与劳动经济研究中心简介

中国人力资本与劳动经济研究中心（CHLR）（以下简称“中心”）隶属于中央财经大学“经济学与公共政策优势学科创新平台”，成立于 2008 年 3 月，是一个以研究中国人力资本、劳动力市场及其与经济发展关系为主要研究方向的院级国际化研究中心；中心招收博士后、博士和硕士研究生。中心顾问由该领域的国际著名教授担任，其中包括诺贝尔经济学奖得主 James Heckman 教授，以及人力资本计算方法——终身收入法创始人之一，哈佛大学的 Dale W. Jorgenson 教授。

中心的教学科研成员全部为北美知名高校的终身教授或者拥有北美或欧洲知名高校经济学博士学位的海归学者。中心有全职教师 8 人，特聘教授 7 人及特聘研究员 10 人。教师队伍中，特聘教授 7 人，副教授 1 人，助理教授 7 人。

中心以科研为主导，强调国际化的前沿学术研究。主要研究方向为：1) 人力资本的形成、度量及作用，2) 教育、健康与人力资本，3) 人力资本与创新及创业，4) 劳动力市场与政策，5) 人口与社会保障，6) 产业组织。

中心拥有科学完备的博士及硕士研究生培养方案，其课程体系和课程设置与美国研究类高校一致，采用全英文授课及国际化人才培养方式。截至 2020 年 12 月，中心已毕业博士后 1 人，博士生 10 人，硕士生 117 人。目前在校生 45 人，其中全日制硕士生 39 人，全日制博士生 6 人。

BRIEF INTRODUCTION TO CHINA'S HUMAN CAPITAL PROJECT

1. China's Human Capital: Measurement and Index

The research project, "China's Human Capital: Measurement and Index Construction," is conducted by the China Center for Human Capital and Labor Research Center (CHLR) and funded by the National Natural Science Foundation of China and the Central University of Finance and Economics (CUFE). The project is establishing China's first scientific and systematic human capital index and quantitatively describing China's human capital distribution, trend and dynamics. It constructs important measures for further evaluating human capital and its contribution to economic development and provides policymakers with important information on the nation's human capital development.

The project is part of the international effort to establish comparable national human capital measurement across nations and to eventually incorporate human capital into the National Income and Product Accounts (NIPA) system.

The project is led by Professor Haizheng Li. The research team includes Professor Barbara Fraumeni (a pioneer scholar in developing the Jorgenson-Fraumeni method of human capital calculation), other full-time and special-term professors, graduate students, and the administrative staff at the CHLR.

Since the inaugural issue of the China Human Capital Report in 2009, the project has generated great social impact, and it has drawn the attention of academia and governments both at home and abroad.

Funding:

- The project was initiated in 2009 and has been funded by various priority research funds from the CUFE. The project has been designated as one of the representative research projects at the CUFE.
- The project has continuously been funded by the National Natural Science Foundation over the past ten years.

Team:

- The project has been conducted in cooperation with universities in the United States, including Georgia

Institute of Technology, Ohio State University, and State University of New York at Buffalo.

- The research team includes the two founders of the Jorgenson-Fraumeni income-based approach: Professor Dale Jorgenson at the Harvard University and Professor Barbara Fraumeni, who also serves as a special-term professor in the Center.
- The team includes all full-time and special-term professors, graduate students, and the administrative staff at the CHLR.

China Human Capital Report (in both Chinese and English version):

- The China Human Capital Report series has been released every year since 2009 in an international conference on human capital hosted by the CHLR. Keynote speakers and conference participants have included:
 - The Nobel Laureate late Professor Kenneth J. Arrow, Professor Dale Jorgenson, and scholars from the World Bank, the OECD and many other institutes around the world;
 - Professor Zhenghua Jiang, the Vice Chairman of the National People's Congress, Keng He, the Vice Chairman at the Finance and Economics Committee of the Standing Committee of the National People's Congress, Guoqiang Long, the Vice Director at the Development Research Center of the State Council, Xianchun Xu, the Deputy Director at the National Bureau of Statistics, and many other scholars all around China.

Impacts in China:

- The annual release of the China Human Capital Report has normally been covered in major media in China, such as Guangming Daily, People's Daily Online, Sina Online, and Jiefang Daily.
- The annual China Human Capital Report is regularly submitted to the Ministry of Education and the Department of Organization for policy reference.
- The CHLR has established formal collaboration with several research institutes such as the Beijing Human Research Center of Beijing Municipal Department of Organization.
- The project was noted favorably by Yandong Liu, the current Vice Premier of the State Council (and then State Consular), during her visit of the university in 2009.

Academic impacts:

- The Human Capital Report has been included in the World Bank Report, "The Changing Wealth of Nations."
- Parts of the China Human Capital Report have been published as working papers of the National Bureau of Economic Research (NBER).
- Parts of the China Human Capital Report have been published as research papers in peer-reviewed journals, including *Journal of Comparative Economics*, *Review of Income and Wealth*, *China Economics Review*, and *Economic Research Journal* (the top Chinese journal in economics).
- The project team has been invited to many domestic and international conferences, including presentation at the plenary session of the Fifth World KLEMS Conference at Harvard University and the keynote address at the Society of Economic Measurement Annual Conference in 2018.

Impacts worldwide:

- The China Human Capital Project is part of the international effort in establishing comparable human capital measurement across nations. The innovative methods used in the project have been increasingly recognized and adapted worldwide.
- Professor Dale Jorgenson has included a major reference and citation to the Report in his comment on the China Human Capital measurement project in his review paper published in the *Journal of Economic Literature* (2018).
- The project team has been invited to join the large research project on human capital sponsored by the European Union, LLLight'in'Europe FP7 (SSH-2011-2).
- The CHLR has been invited by the International Association for Research in Income and Wealth (IARIW) to jointly host the 2021 special conference on human capital.

2. International Symposium on Human Capital and Labor Markets

In the release of the China Human Capital Report, the CHLR holds an annual international conference on human capital. The conference receives over a hundred submissions each year, and it has become an influential conference in the area of human capital research.

3. Human Capital Database

The human capital measurements produced by this project have been widely used in research and policy analysis. The database on China human capital measures and all processed data and raw data, mostly longitudinal, are freely available to the public at: <http://humancapital.cufe.edu.cn/>

4. Educational Impact

Hundreds of master's students, doctoral students, and post-doctoral fellows have participated in the China human capital project. They receive valuable training in research and complete their degree requirements in the project.

中国人力资本指数项目简介

1. 中国人力资本度量研究项目

中国人力资本与劳动经济研究中心（以下简称“中心”）的“中国人力资本的度量及人力资本指标体系的构建”项目得到国家自然科学基金委员会及中央财经大学的专项资助。该项目旨在建立中国第一套科学、系统的人力资本指数，定量描述中国人力资本的分布及发展动态；为更深入地研究人力资本在中国经济发展中的作用提供综合的度量指标；为政府的相关经济社会决策提供定量依据；同时也为中国的人力资本度量方法和指标成为国际人力资本指标体系的一部分、为人力资本作为国民账户的一部分纳入到我国国民财富的衡量体系提供前期工作。该项目由中心李海峥教授主持，人力资本收入算法（Jorgenson-Fraumeni 方法）创始人之一的 Barbara Fraumeni 教授直接参与项目，中心全职教授和特聘教授，以及全体博士、硕士研究生及行政人员共同参与。

经过十余年连续努力，中心建立了中国第一套科学的、国际化的、连续更新的人力资本度量体系。《中国人力资本报告》自 2009 年公开发布以来，受到了国际、国内学术界及政府部门的高度重视，引起了广泛的、良好的社会反响。

项目资助

- 人力资本项目于 2009 年立项，是中央财经大学标志性成果之一，中央财经大学一流学科建设重点支持项目。
- 连续十年获得国家自然科学基金资助，并进入 2019 年国家自然科学基金重点项目最后答辩（因作者顺序标注问题未能立项）。

项目团队

- 人力资本度量项目与美国乔治亚理工大学、俄亥俄州立大学、纽约州立大学等高校建立了长期合作。
- 人力资本度量 J-F 方法创始人哈佛大学著名教授 Dale Jorgenson 作为顾问，另一位创始人 Barbara Fraumeni 作为中心特聘教授每年亲自参与项目。
- 中心全体特聘教授、全职教师、博士生、硕士生及行政人员共同参与项目工作。

《中国人力资本报告》（中英文版）

- 中心连续 10 年每年发布《中国人力资本报告》（中英文版）。发布会参会人员包括：

- 诺贝尔奖获得者阿罗教授（已故）、哈佛大学 Dale Jorgenson 教授，世界银行和 OECD 官员及国外学者；
- 全国人大常委会副委员长蒋正华、全国人大财经委员会副主任贺铿、国务院发展研究中心副主任隆国强、国家统计局副局长许宪春及众多国内学者。

项目国内影响

- 每年《中国人力资本报告》发布，国内主要媒体包括光明日报、人民网、新浪网等均集中报道，解放日报曾整版报道中国人力资本报告。
- 《中国人力资本报告》每年递交教育部作为参考材料，也是中组部第二次全国人才工作会议的参考材料，并收录于《北京人才发展报告》等。
- 中心与北京市组织部人力资源研究中心等成为合作共建单位。
- 2009 年刘延东同志来中央财经大学参观，肯定了人力资本研究工作。

项目学术影响

- 《中国人力资本报告》的内容收录于世界银行官方报告《国家财富的改变》。
- 《中国人力资本报告》的内容收录于美国国家经济研究局工作论文（NBER）。
- 《中国人力资本报告》的内容发表在国际国内高端期刊 *Journal of Comparative Economics*, *Review of Income and Wealth*, *China Economic Review* 及《经济研究》等。
- 项目团队应邀参加了多次国际和国内学术会议，并在哈佛大学国际会议作大会发言，在国际度量学会 2018 年会作大会主旨发言。

项目国际影响

- 参与国际标准制定：中心在人力资本度量方面的研究和探索已经达到国际前沿水平。我们的度量方法、特别是我们对国际方法的创新改进已经被国际社会接收并被越来越多使用，正成为国际标准的一部分。
- 哈佛大学教授 Dale W. Jorgenson 发表在国际权威期刊 *Journal of Economic Literature* (2018) 综合回顾文章专门有一整段文字对中心人力资本度量研究给予评价。
- 中心应邀参加欧盟大型人力资本项目。
- 国际收入与财富研究学会邀请中心共同举办 2021 人力资本国际年会

2. 人力资本国际研讨会

以人力资本报告发布为契机，中心每年举行人力资本国际研讨会。该年会已经成为国际人力资本领域具影响力的国际会议，每年收到会议英文投稿百余篇。

3. 人力资本数据库

中国人力资本报告系列及历年的计算结果、中间数据、以及原始数据已经被广泛应用，形成以面板数据为主的中国人力资本数据库。相关资料及数据可以在人力资本中心官方网站下载，免费供社会各界使用（<http://humancapital.cufe.edu.cn/>）。

4. 人才培养

大量的硕、博士研究生及博士后参与了人力资本项目。

LIST OF PAST SYMPOSIUMS ON HUMAN CAPITAL AND LABOR MARKETS

2009--The First International Symposium on Human Capital and Labor Markets

About the Symposium

On October 10, 2009, CHLR held its first international symposium on measurement of human capital and released the China Human Capital Report 2009. The Principle Investigator for the project, Prof. Haizheng Li presented the methodology of the estimation of human capital stock and the estimation results at the national level for 1985-2007. The China Human Capital Report 2009 establishes China's first systematic and comprehensive human capital measurement and human capital index, including the stock of human capital of China 1985-2007, by urban-rural and by gender; human capital per capita; various human capital indices; and the forecast of China's human capital stock for 2008-2020. The symposium included academic sessions focusing on the measurement of human capital, construction of the human capital index, and the contributions of human capital to economic growth and welfare.

Participants

Nobel Laureate Prof. Kenneth J. Arrow, Prof. Ken He (Deputy Director, Finance Committee of the Standing Committee of the National People's Congress), and Prof. Dale W. Jorgenson (co-founder of the Jorgenson-Fraumeni income-based method for measuring human capital, Harvard University), gave keynote speeches in the plenary session. Prof. Guangqian Wang (President of CUFU), Prof. Donggang Zhang (Deputy Director of the Social Science Division, Ministry of Education), Dr. Xianchun Xu (Deputy Commissioner, National Statistics Bureau), and Dr. Zhongjie Jia (Director of the Senior Civil Servants Training Center, Ministry of Human Resources and Social Security) also participated in the symposium. Over 800 domestic and foreign scholars including Professor Barbara M. Fraumeni (University of Southern Maine), national and international government officials, as well as university students, attended the symposium.

2010--The Second International Symposium on Human Capital and Labor Markets

About the Symposium

The Second International Symposium on Human Capital and Labor Markets and the release of the China Human Capital Report 2010 was held in Beijing October 15, 2010. The symposium was organized by the CHLR. In the meeting, the China Human Capital Index and Report 2010 were released. This year's report updates the human capital estimation at the national level; and for the first time, human capital at the provincial level is estimated. The 2010 report includes human capital estimation results for Beijing, Liaoning, Jiangsu, Guangdong, and Gansu.

Participants

Dr. Ardo Hansson (Chief Economist, World Bank China Office), Dr. Danling Zhao (Official of Ministry of Education), Prof. Yuetian Li (Deputy Director-General of Ministry of Human Resources and Social Security), and Prof. Guoqiang Long (Director-General, Research Department of Foreign Economic Relations, the State Council Research and Development Center) provided helpful comments on the human capital index report, as specially invited discussants. Prof. Barbara Fraumeni (a co-developer of the Jorgenson-Fraumeni method of human capital calculation) chaired the meeting, and Professor Haizheng Li presented new results from the Human Capital Report 2010. Additionally, officials from the Ministry of Education, National Development and Reform Commission, the National Bureau of Statistics, the Department of Organization of Beijing, and the Development and

Reform Commission of Shanghai, and other agencies, as well as domestic and foreign scholars attended the symposium.

2011--The Third International Symposium on Human Capital and Labor Markets

About the Symposium

The Third International Symposium on Human Capital and Labor Markets and the release of the China Human Capital Report 2011 was held in the Central University of Finance and Economics (CUFE) on October 28, 2011. The symposium was organized by the CHLR, and it released the China Human Capital Report 2011. Compared with previous human capital reports, the 2011 Report shows significant improvements in calculation methods, addresses the problem of missing data at the provincial level, and also adds new micro survey data. The Report updates the national human capital estimates for 1985-2009 and expands the coverage to 12 provinces (Beijing, Shanghai, Gansu, Guangdong, Jiangsu, Liaoning, Anhui, Shandong, Guizhou, Hubei, Hunan, and Henan). In addition, the Report discusses human capital across provinces and their trends and patterns.

Participants

Specially invited discussants and commentators, Desheng Lai (Dean, Beijing Normal University), Yang Du (Fellow, Institute of Labor and Population Economics, Chinese Academy of Social Sciences), Zhaoming Gui (Professor, Wuhan Institute of Technology), Yongzhi Liu (Director, China Association of International Exchange of Personnel), Philip O'Keefe (Lead Economist, World Bank) gave in-depth discussions on this year's Report. Mr. Fengyun Lei (Deputy Director, State Administration of Foreign Experts Affairs), Prof. Barbara Fraumeni (a co-developer of the Jorgenson-Fraumeni method of human capital calculation), Prof. Yijun Li (Deputy Director, Division of Management Science, National Natural Science Foundation of China), Junsheng Li (Vice President, Central University of Finance and Economics), as well as other domestic and foreign scholars also attended the symposium.

2012--The Fourth International Symposium on Human Capital and Labor Markets

About the symposium

The Fourth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2012, organized by the CHLR was held in CUFE on December 14, 2012. The China human capital report 2012 was released. The new report uses updated provincial statistical data and computes human capital for five new provinces (Tianjin, Heilongjiang, Zhejiang, Guangxi and Shaanxi) in 1985-2009. The corresponding panel data of measures of human capital for 17 provinces was constructed. Various data of human capital were released online at the Center's website to promote sharing of research data.

Participants

Prof. Barbara Fraumeni (University of Southern Maine, a co-developer of the Jorgenson-Fraumeni method of human capital calculation) chaired the plenary session. The new human capital report was presented by Prof. Haizheng Li. As specially invited discussants and commentators, Prof. Weiping Li (the chief research fellow from the Chinese Academy of Personnel Science), Prof. Dennis Tao Yang (University of Virginia), and Prof. Yansui Yang (Tsinghua University), gave insightful comments on the Report. In the afternoon, the conference organized three academic sessions. Scholars from China and other countries discussed ongoing research related to broad issues of human capital and labor markets. Prof. Rachel Connelly (Bowdoin College), Prof. Zhenhui Xu (Georgia University and College), and Prof. Dennis Tao Yang chaired the academic sessions. Prof. Lifan Zhao (Vice President of CUFE) also attended the symposium.

2013--The Fifth International Symposium on Human Capital and Labor Markets

About the symposium

The Fifth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2013, organized by the CHLR was held in CUFE on December 15, 2013. The China human capital report 2013 was released. Updated national and provincial human capital used newly released 2010 census data. Estimated human capital for 5 new provinces in 1985-2010: Hainan, Jiangxi, Jilin, Sichuan, Chongqing. The corresponding panel data of gross measures of human capital for 22 provinces was constructed. The Report also contained estimates of the national and provincial physical capital stock and cross-provincial living cost.

There were 10 human capital-related parallel academic sessions in which there were 41 research papers selected from international and domestic submissions. Scholars from China and other countries discussed ongoing research related to broad issues of human capital and labor markets.

Participants

Prof. Barbara Fraumeni (University of Southern Maine, one of the founders of the Jorgenson-Fraumeni method of human capital calculation) chaired the plenary session. The new human capital report was presented by Prof. Haizheng Li. As special invited keynote speakers, Prof. Zhenghua Jiang (former vice chairman of the National People's Congress) and Prof. Mark R. Rosenzweig (Frank Altschul Professor of Economics, Yale University) gave keynote speeches. Dr. Vincent Perrin (OECD Beijing Representative), Prof. Belton M. Fleisher (Editor of China Economic Review & Ohio State University & CHLR), Prof. Guangqian Wang (president, CUFE), Prof. Junsheng Li (Vice President of CUFE), and Prof. Lifan Zhao (Vice President of CUFE) also attended the symposium.

2014--The Sixth International Symposium on Human Capital and Labor Markets

About the symposium

The sixth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2014, organized by the CHLR, was held in CUFE on October 31, 2014. The China human capital report 2014 was released. The Report included estimated human capital for 9 new provinces in 1985-2010: Shanxi, Qinghai, Inner Mongolia, Xinjiang, Tibet, Yunnan, Fujian, Hebei, Ningxia, Hong Kong and Taiwan; re-estimated human capital for Hainan province; estimated and national and provincial physical capital stock; and estimated cross-provincial living cost indices.

Participants

Jeffrey S. Zax (Professor, University of Colorado at Boulder) chaired the plenary session. Belton M. Fleisher (Professor, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) gave a speech on "Remarks in Memory of Gary S. Becker." The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), Barbara Fraumeni (Professor, University of Southern Maine & CHLR, one of the founders of the Jorgenson-Fraumeni method of human capital calculation) and Carsten A. Holz (Professor, Hong Kong University of Science and Technology & CHLR). Specially invited discussants and commentators included Shujie Han (Editorial Director, Journal of Human Resource Development of China), Martina Lubyova (Director, Institute for Forecasting, Slovak Academy of Sciences), Peter F. Orazem (Professor, Iowa State University) and Jeffrey S. Zax (Professor, University of Colorado at Boulder), who gave in-depth discussions on this year's Report. Prof. Junsheng Li (Vice President of CUFE) also attended.

We received 77 submissions, among which 32 were accepted for presentation.

2015--The Seventh International Symposium on Human Capital and Labor Markets

About the symposium

The seventh International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2015, organized by the CHLR was held in CUFE on December

12, 2015. The China human capital report 2015 was released. Human capital calculation for all provinces, autonomous regions, municipalities and special administrative regions (excluding Macao) were extended to 1985-2012. There were some revisions and improvements in the 2015 Report, including updating the data for enrollment categorized by region and gender to 1985-2012, and adding China Family Panel Studies (CFPS2011) to estimate Mincer parameters. The China Human Capital Report 2015 also reported the average age of labor force, average education level and the proportion of population with high-school education. The news of establishing CPS (Complex Problem Solving) Test Lab in China by the CHLR was released during the symposium.

Participants

Belton M. Fleisher (Professor, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) chaired the plenary session. The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), Barbara Fraumeni (Professor, University of Southern Maine & CHLR, one of the founders of the Jorgenson- Fraumeni method of human capital calculation) and Carsten A Holz (Professor, Hong Kong University of Science and Technology & CHLR). Specially invited discussants and commentators: Gary Jefferson (Professor, Brandeis University), Scott D. Rozelle (Professor, Stanford University), Shi Li (Professor, Beijing Normal University) and Tao Xin (Professor, Beijing Normal University). Phil. Samuel Greiff (Associate Professor, University of Luxembourg), Kevin Murphy (Professor, Colorado State University) and Peer Ederer (Professor, Zeppelin University) participated in the releasing the news of establishing CPS (Complex Problem Solving). Jianfeng Peng (Professor, Renmin University & Chairman, China Stone) and Jianping Shi (Vice President of CUFU) also attended.

More than one hundred of international and domestic scholars attended the seventh human capital symposium. The symposium selected 40 papers out of 98 submissions, with 10 parallel sessions covering education, income, health, poverty and behavior, labor market, employment, immigration, human capital, children and complex skills.

2016--The Eighth International Symposium on Human Capital and Labor Markets

About the symposium

The eighth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2016, organized by the CHLR was held in CUFU on December 10, 2016. The China human capital report 2016 was released. Human capital calculation for all provinces, autonomous regions, municipalities and special administrative regions (excluding Macao) has been extended to 1985-2014. There were some revisions and improvements in the 2016 Report, including updating the data on school enrollment by region and gender based on new data sources for 1985-2014, and estimating both national and provincial physical capital stock for 1985-. The China Human Capital Report 2016 also unified the population estimation method at the national and province level, and it included data on re-calculated national human capital.

Participants

Belton M. Fleisher (Professor, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) chaired the plenary session. The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), Barbara Fraumeni (Professor, University of Southern Maine & CHLR, one of the founders of the Jorgenson- Fraumeni method of human capital calculation) and Carsten A. Holz (Professor, Hong Kong University of Science and Technology & CHLR). Specially invited discussants and commentators, Min Tang (Ph. D, State Department Counselor & Vice President of YouChange China Social Entrepreneur Foundation), Boqing Wang (Ph. D, Founder & Chair of MyCOS (China Occupational Skills)) gave in-depth discussions on this year's Report. Jianping Shi (Vice President of CUFU) also attended.

We received 122 submissions, among which 60 papers were accepted for presentation in 14 parallel sessions.

2017--The Ninth International Symposium on Human Capital and Labor Markets

About the symposium

The ninth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2017, organized by the CHLR was held in CUFE on December 9, 2017. The China human capital report 2017 was released. Human capital calculation for all provinces, autonomous regions, municipalities and special administrative regions (excluding Macao) were extended to 1985-2015. There were some revisions and improvements in the 2017 Report, including updated population of 2015 for some provinces based on new information, adding CHIP 2013 and CFPS 2014 data in estimating the Mincer equations, and adjusting the method in imputing the coefficients for the experience variable in the Mincer equations. The China Human Capital Report 2017 also improved with a unified imputation method for 1982 and 1987 census data using new information.

Participants

Belton M. Fleisher (Professor, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) chaired the plenary session. The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), Barbara Fraumeni (Professor, University of Southern Maine & CHLR, one of the founders of the Jorgenson- Fraumeni method of human capital calculation) and Carsten A Holz (Professor, Hong Kong University of Science and Technology & CHLR). Specially invited discussants and commentators, Junjie Hong (Dean, Professor, and Ph.D. advisor of School of International Economic and Trade in University of International Business and Economics), Weiguo Yang (Dean, Professor and PhD advisor of School of Labor and Human Resources, Renmin University of China) gave in-depth discussions on this year's Report.

We received 116 submissions, among which 37 papers were accepted for presentation in 9 parallel sessions, covering employment, education, labor market, cognition, health, income, and human capital.

2018--The Tenth International Symposium on Human Capital and Labor Markets

About the symposium

The tenth International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2018, organized by the CHLR was held in CUFE on December 8-9, 2018. The China Human Capital Report 2018 was released. Human capital calculations for all provinces, autonomous regions, municipalities and special administrative regions (excluding Macao) were extended to 1985-2016. There revisions and improvements in the 2018 Report included updated 2015 1% Demographic Sampling Survey data for 20 provinces, adding adult education enrollment into the total enrollment, adding new survey data CFPS 2016 in estimating the Mincer equations, and improving sample selection of the CHNS survey data. The China Human Capital Report 2018 also updated the national employment rate data of 2015 and updated that data for Taiwan from 1985 to 2016.

Participants

Belton M. Fleisher (Professor Emeritus, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) chaired the plenary session. The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), and Barbara Fraumeni (Professor Emerita, University of Southern Maine & CHLR, one of the founders of the Jorgenson- Fraumeni method of human capital calculation). Dale Jorgenson (Professor Emeritus, Harvard University, one of the founders of Jorgenson- Fraumeni method of human capital calculation) released a video speech reviewing the first participation in the human capital conference; he sent sincere wishes to the human capital project. Guoqiang Long (Deputy director of the Development

Research Center of the State Council), Andrew Sharpe (Executive director of the International Income and Wealth Research Association), and Shi Jianping (vice president of the Central University of Finance and Economics) also attended the conference. Zhuo (Adam) Chen (Associate Professor, University of Georgia; Li Dak Sum Chair Professor in Health Economics and Co-Director, Centre for Health Economics, University of Nottingham Ningbo China) and Gordon Liu, (PhD., MOH Yangtze River Scholar in Economics, PKU BOYA Professor) presented their discussions of the human capital report. Benjamin F. Jones (Gordon and Llura Gund Family Professor of Entrepreneurship, Professor of Strategy, and the faculty director of the Kellogg Innovation and Entrepreneurship Initiative) presented a keynote speech.

We received 145 submissions, among which 52 papers were accepted for presentation in 13 parallel sessions that covered issues in health, education, cognitive skills, measurement of human capital, income, employment, productivity, migration and aging and household behavior.

2019--The Eleventh International Symposium on Human Capital and Labor Markets

About the symposium

The Eleventh International Symposium on Human Capital and Labor Markets celebrating release of the China Human Capital Report 2019, organized by the CHLR was held in CUFU on December 13-14, 2019. The China Human Capital Report 2019 was released. Human capital calculations for all provinces, autonomous regions, municipalities and special administrative regions (excluding Macao) were extended to 1985-2017. There revisions and improvements in the 2019 Report included updated 2015 1% Demographic Sampling Survey data, adding general secondary professional education data and adult secondary professional education data into the high school enrollment, calculating labor-force human capital by including or not including students, revising the method for calculating enrollment age distribution from 6 age groups to 3 age groups, adding new survey data CLDS 2014 in estimating the Mincer equations, and updating the CHNS 2015 and CFPS 2016 survey data. The center will cooperate with Jinan Human Capital Industry Research Institute to conduct human capital pricing research.

Participants

Belton M. Fleisher (Professor Emeritus, Ohio State University & Special-term Professor, CHLR & Editor, China Economic Review) chaired the plenary session. The new human capital report was presented by Haizheng Li (Professor, Georgia Institute of Technology & CHLR), and Barbara Fraumeni (Professor Emerita, University of Southern Maine & CHLR, one of the founders of the Jorgenson- Fraumeni method of human capital calculation). Shi Jianping (vice president of the Central University of Finance and Economics) and Wang Weiguo (Deputy Director of the Management Committee of Jinan High-tech Zone) attended the conference and gave welcome remarks. Shi Yaojiang (Professor and Director, Center for Experimental Economics in Education, Shaanxi Normal University) presented the discussion of the human capital report. Ludger Wößmann (Professor of Economics at the University of Munich and Director of the Ifo Center for the Economics of Education at the ifo Institute) presented a keynote speech.

We received 95 submissions, among which 39 papers were accepted for presentation in 8 parallel sessions that covered issues in health, education, cognitive skills, income, migration, and measurement of human capital.

历年人力资本发布会议回顾

一、第一届人力资本研讨会

1. 会议内容

2009年10月10日，中央财经大学中国人力资本与劳动经济研究中心举办了主题为“人力资本的度量及其对增长和福利的贡献”国际研讨会，首次发布中国国家层面人力资本指数及《中国人力资本报告2009》（中英文版）。项目负责人李海峥教授详细阐述了中国人力资本度量方法与相应的计算结果，以及中国人力资本度量项目的未来发展方向。

本项目探索性地建立了中国人力资本的综合度量体系，其阶段性成果包括：1985-2007年中国分城乡、分性别的名义与实际人力资本存量，相应人均人力资本与各种人力资本指数；人力资本分布状况和变化趋势；对2008-2020年中国人力资本水平的预测。

本次会议还组织了学术分会，分会主题包括人力资本度量方法、中国人力资本指数的构建、以及人力资本对经济增长和福利的贡献等。

2. 出席嘉宾

诺贝尔经济学奖获得者肯尼斯·阿罗(Kenneth Arrow)教授、全国人大财经委员会副主任贺铿教授、人力资本计算方法创始人哈佛大学的戴尔·乔根森(Dale Jorgenson)教授分别作大会主题发言。中央财经大学校长王广谦教授，教育部社科司副司长张东刚，国家统计局副局长许宪春，人力资源和社会保障部、中国高级公务员培训中心主任贾忠杰等以及其他海内外政府官员和学者出席了会议。来自海内外的专家学者、政府及国际组织官员、高校学生等八百多人参加了全体会议。

二、第二届人力资本研讨会

1. 会议内容

2010年10月15日，中央财经大学中国人力资本与劳动经济研究中心举办了“第二届中国人力资本指数发布暨人力资本研讨会”，本次会议发布了《中国人力资本报告2010》，内容包括：更新后的中国国家层面人力资本计算结果，并首次将中国人力资本的计算深入到省级层面，计算1985-2009年北京、甘肃、广东、江苏、辽宁五个省（市）的人力资本存量与指数。

2. 出席嘉宾

世界银行驻华首席经济学家 Ardo Hansson 博士，教育部人事司副巡视员赵丹玲、人力资源和社会保障部政策研究司副司长李月田、国务院发展研究中心对外经济研究部部长隆国强等应邀对人力资本报告进行点评。人力资本终生收入法的创始人之一 Barbara Fraumeni 教授组织本次人力资本报告的发布和点评。此外，教育部、国家发改委、国务院发展研究中心、人力资源和社会保障部、财政部、科技部、国家统计局、北京市组织部、上海市发改委的领导及其他国内外专家学者出席本次会议。

三、第三届人力资本研讨会

1. 会议内容

2011年10月28日，中央财经大学中国人力资本与劳动经济研究中心组织召开了“第三届人力资本国际研讨会暨2011年中国人力资本报告发布会”，发布2011年中国人力资本指数和报告。与前两年的人力资本报告相比，《中国人力资本报告2011》大幅度改进了计算方法以弥补省级数据的缺失，同时增加了微观调查数据，更新了1985-2009年国家层面人力资本指数并将省级层面估算扩展到12个省份：包括北京、甘肃、广东、江苏、辽宁、上海、安徽、山东、贵州、湖北、湖南和河南，并对各省人力资本分布和动态发展情况做出分析。

2. 出席嘉宾

人力资本终生收入法的创始人之一 Barbara Fraumeni 教授、世界银行驻华主任经济学家 Philip O'Keefe 博士、欧洲人力资本项目负责人 Peer Ederer 教授出席，北京师范大学经济与工商管理学院院长赖德胜教授、中国社会科学院人口与劳动经济研究所都阳教授、武汉工程大学管理学院桂昭明教授应邀作为点评专家，围绕本年度人力资本报告进行了深入讨论。国家外国专家局科教文卫司副司长雷风云、国家自然科学基金委员会管理科学部主任李一军、中央财经大学副校长李俊生等以及其他国内外专家学者前来参会。

四、第四届人力资本研讨会

1. 会议内容

2012年12月14日，中央财经大学中国人力资本与劳动经济研究中心举行“第四届人力资本国际研讨会暨2012年中国人力资本报告发布会”，发布《中国人力资本报告2012》。与2011年中国人力资本报告相比，2012年中国人力资本报告使用了更新后的省级宏观数据，增加了天津、黑龙江、浙江、广西壮族自治区和陕西5个省（自治区、直辖市）1985-2009年的省级层面人力资本的估算，完成了国家层面及17个省市的人力资本计算结果的更新，建立相应的人力资本综合度量体系及相应的面板数据。根据人力资本的计算结果，报告还初步分析了影响人力资本增长的因素、人力资本与退休年龄的关系、以及人力资本对经济增长的贡献等问题。同时，人力资本的各项度量指标数据开始通过中心的网站对外发布，促进学术资源的共享。

2. 出席嘉宾

人力资本终生收入法的创始人之一 Barbara Fraumeni 教授主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥作中国人力资本报告。美国加州州立大学长滩分校经济学侯维忠教授、人力资源和社会保障部人事科学院首席专家李维平教授、弗吉尼亚大学达顿商学院杨涛教授，以及清华大学公共管理学院杨燕绥教授，就人力资本报告2012进行深入点评。此外，会议举办了三场平行学术分会，鲍登学院 Rachel Connelly 教授、佐治亚学院和州立大学徐振挥教授、弗吉尼亚大学达顿商学院 Dennis Yang 教授分别主持了学术分会。中央财经大学副校长赵丽芬教授等出席会议。

五、第五届人力资本研讨会

1. 会议内容

2013年12月15日，中央财经大学中国人力资本与劳动经济研究中心举行“第五届人力资本国际研讨会暨2013年中国人力资本报告发布会”，发布《中国人力资本报告2013》。与2012年中国人力资本报告相比，2013年中国人力资本报告使用2010年人口普查数据，将全国和各省人力资本更新至2010年；新增加计算了海南、江西、吉林、四川和重庆人力资本，基本构建形成中国国家层面及二十二个省级层面人力资本面板数据库；估算并发布全国以及各省1985-2010年固定资本存量；计算并发布各省1985-2010年生活成本调整指数。会议展示了部分基于《报告》中数据进行研究的学术成果，并总结了《报告》五年内取得的成果。

2. 出席嘉宾

人力资本终生收入法的创始人之一 Barbara Fraumeni 教授主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥作中国人力资本报告。著名人口学家、原全国人大常委会副委员长蒋正华教授，耶鲁大学著名经济学教授 Mark R. Rosenzweig 莅临会议并做主题演讲。中央财经校长王广谦在开幕式上致辞，经济与合作发展组织北京代表 Vincent Perrin 博士、《中国经济评论》主编 Belton Fleisher 教授、中央财经大学副校长李俊生及副校长赵丽芬等出席了会议。

本次人力资本大会在以往的基础上扩大规模，增设十场关于人力资本与劳动经济研究领域的学术专题讨论会，会议从海内外投稿中遴选出41篇高水平论文，分别就人力资本、劳动力市场、教育、工资、医疗保健、人口流动及实验经济学领域的最新成果进行交流，海内外近百名学者参加了会议及分会场专题研讨。

六、第六届人力资本研讨会

1. 会议内容

2014年10月31日，中央财经大学中国人力资本与劳动经济研究中心举行“第六届人力资本国际研讨会暨2014年中国人力资本报告发布会”，发布《中国人力资本报告2014》。与2013年中国人力资本报告相比，2014年中国人力资本报告新增加计算了山西、青海、内蒙古、新疆、西藏、云南、福建、河北、宁夏九个省（自治区）和香港特别行政区、台湾省人力资本，重新计算海南省人力资本，基本构建形成中国国家层面及所有省、自治区、直辖市和特别行政区（澳门特别行政区除外）人力资本1985-2010面板数据库；估算并发布全国以及各省1985-2010年固定资本存量；计算并发布各省1985-2010年生活成本调整指数。

2. 出席嘉宾

科罗拉多大学博尔德分校 Jeffrey S. Zax 教授主持发布会，中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 做题为“追忆加里贝克尔”主体发言。人力资本终生收入法的创始人之一 Barbara Fraumeni 教授，香港科技大学 Carsten A. Holz 教授，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥作中国人力资本报告。《中国人力资源开发》杂志编辑部主任韩树杰、斯洛伐克科学院预测

研究所主任 Martina Lubyova、爱荷华州立大学教授 Peter F. Orazem 和科罗拉多大学博尔德分校教授 Jeffrey S. Zax 应邀做人力资本报告评议。中央财经大学副校长李俊生教授出席了会议。

本次会议收到了 77 份论文投稿，遴选出其中 32 份高水平论文进行报告。

七、第七届人力资本研讨会

1. 会议内容

2015 年 12 月 12 日，中央财经大学中国人力资本与劳动经济研究中心举行“第七届人力资本国际研讨会暨 2015 年中国人力资本报告发布会”，发布《中国人力资本报告 2015》。与 2014 年中国人力资本报告相比，2015 年中国人力资本报告将所有省份、自治区、直辖市、特别行政区（澳门特别行政区除外）的人力资本计算扩展到 1985-2012 年。2015 年的报告在方法和数据上进行了调整和更新，比如统一了每年分城乡、性别的各级教育水平招生人数的数据来源并更新到 2012 年、在 Mincer 方程参数估计时添加了新的数据库中国家庭追踪调查 2011 年数据等等，基于估算的每年人口数据，增加了劳动力人口平均年龄、平均教育程度、高中及以上人口比重结果。研讨会还发布了成立中国个体复杂技能测评实验室的消息。

2. 出席嘉宾

中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 主持发布会，人力资本终生收入法的创始人之一 Barbara Fraumeni 教授，香港科技大学 Carsten A. Holz 教授，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥教授作中国人力资本报告。布兰迪斯大学 Gary Jefferson 教授、斯坦福大学 Scott D. Rozelle 教授、北京师范大学李实教授和北京师范大学辛涛教授出席会议并对人力资本报告进行评议。卢森堡大学 Phil. Samuel Greiff 副教授、科罗拉多州立大学 Kevin Murphy 教授和泽佩林大学 Peer Ederer 教授参与了成立中国个体复杂技能测评实验室的发言和讨论。华夏基石董事长、人民大学彭剑锋教授和中央财经大学副校长史建平教授出席了会议。

海内外百余名学者加了第七届人力资本会议及分会场专题研讨。研讨会从 98 篇投稿论文中选出 40 篇论文进行报告，涵盖人力资本与劳动经济学相关的包括教育、收入、健康、贫穷与行为、劳动力市场、就业、移民、人力资本、子女和复杂技能解决等在内的 10 个主题。

八、第八届人力资本研讨会

1. 会议内容

2016 年 12 月 10 日，中央财经大学中国人力资本与劳动经济研究中心举行“第八届人力资本国际研讨会暨 2016 年中国人力资本报告发布会”，发布《中国人力资本报告 2016》。与 2015 年中国人力资本报告相比，2016 年中国人力资本报告将所有省份、自治区、直辖市、特别行政区（澳门特别行政区除外）的人力资本计算扩展到 1985-2014 年。2015 年的报告在方法和数据上进行了调整和更新，比如基于新的数据来源更新了 1985-2014 年每年分城乡、性别的各级教育水平招生人数，统一了全国和省份的人口估算方法并重新计算了国家人力资本，估算了 1985-2014 年全国以及各省的固定资本存量。

2. 出席嘉宾

中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥教授，人力资本终生收入法的创始人之一 Barbara Fraumeni 教授，香港科技大学 Carsten A. Holz 教授作中国人力资本报告。国务院参事，友成基金会副理事长汤敏，麦可思公司创始人，中国国际人才专业委员会副会长王伯庆出席会议并对人力资本报告进行评议。中央财经大学副校长史建平教授也出席了会议。

此次会议共收到 122 篇投稿，选择了 60 篇在 14 个并行会场中进行了学术研讨。

九、第九届人力资本研讨会

1. 会议内容

2017 年 12 月 9 日，中央财经大学中国人力资本与劳动经济研究中心举行“第九届人力资本国际研讨会暨 2017 年中国人力资本报告发布会”，发布《中国人力资本报告 2017》。与 2016 年中国人力资本报告相比，2017 年中国人力资本报告将所有省份、自治区、直辖市、特别行政区（澳门特别行政区除外）的人力资本计算扩展到 1985-2015 年。2017 年的报告在方法和数据上进行了调整和更新，部分省份根据 2015 年 1%人口抽样调查公告更新了城乡人口数据，估算 Mincer 方程时新增 CHIP2013 及 CFPS2014 数据，并调整了 Mincer 方程中经验项系数的拟合方法，改进并统一了 1982 及 1987 年人口数据的处理方法。

2. 出席嘉宾

中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥教授，人力资本终生收入法的创始人之一 Barbara Fraumeni 教授，香港科技大学 Carsten A. Holz 教授作中国人力资本报告。对外经济贸易大学国际经济贸易学院院长洪俊杰博士和中国人民大学劳动人事学院院长杨伟国博士出席会议并对人力资本报告进行深度评议。

此次会议共收到 116 篇投稿，选择了 37 篇在 9 个并行会场中进行了学术研讨，涵盖了人力资本与劳动经济学相关的包括教育、劳动力市场、认知、健康、收入、就业、人力资本等主题。

十、第十届人力资本研讨会

1. 会议内容

2018 年 12 月 9 日，中央财经大学中国人力资本与劳动经济研究中心举行“第十届人力资本国际研讨会暨 2018 年中国人力资本报告发布会”，发布《中国人力资本报告 2018》。2018 年中国人力资本报告将所有省份、自治区、直辖市、特别行政区（澳门特别行政区除外）的人力资本计算扩展到 1985-2016 年。2018 年的报告在方法和数据上进行了调整和更新，更新 20 个省份 2015 年 1%人口抽样调查数据，计算招生数时新加入成人教育招生数，估算 Mincer

方程时新增 CFPS2016 数据，并改进了 CHNS 数据库样本筛选方法，同时还新计算了 2015 年就业率数据及计算方法，更新了台湾 1985-2016 年就业率数据。

2. 出席嘉宾

中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥教授，人力资本终生收入法的创始人之一 Barbara Fraumeni 教授作中国人力资本报告。人力资本终生收入法的创始人之一、哈佛大学的 Dale Jorgenson 教授发布了视频致辞，回顾了首届参与人力资本发布会的情景，为第十届中国人力资本指数发布送上了真诚的祝福。国务院发展研究中心副主任隆国强、国际收入与财富研究协会执行主任 Andrew Sharpe、中央财经大学副校长史建平也出席发布会。北京大学中国卫生经济研究中心主任刘国恩教授和佐治亚大学陈茁教授出席发布会并对人力资本报告进行讨论点评。发布会还特邀西北大学凯洛格商学院 Gordon and Llura Gund Family 讲座教授 Benjamin F. Jones 教授作主题发言。

此次会议共收到 145 篇投稿，选择了 52 篇在 13 个并行会场中进行了学术研讨，涵盖了人力资本与劳动经济学相关的包括教育、认知、健康、收入、就业、移民和人力资本度量等主题。

十、第十一届人力资本研讨会

1. 会议内容

2019 年 12 月 14 日，中央财经大学中国人力资本与劳动经济研究中心举行“第十一届人力资本国际研讨会暨 2019 年中国人力资本报告发布会”，发布《中国人力资本报告 2019》。2019 年中国人力资本报告将所有省份、自治区、直辖市、特别行政区（澳门特别行政区除外）的人力资本计算扩展到 1985-2017 年。2019 年的报告在方法和数据上进行了调整和更新，计算了在校生的劳动力人力资本及相应指标。估算 Mincer 方程时新增中国劳动力动态调查（CLDS）2014 年数据，并更新了中国家庭追踪调查（CFPS）2016 年和中国健康与营养调查（CHNS）2015 年的数据。更新了 11 个省份 2015 年 1% 人口抽样调查数据。完善中等职业教育招生人数和 2003 年以前成人高等教育招生人数。改进各教育层级招生年龄分布，由六个年龄段改进为三个年龄段。会上，中国人力与劳动经济研究中心与济南人力资本产业研究院现场签约，双方将开展合作进行人力资本定价研究。

2. 出席嘉宾

中国经济评论主编、俄亥俄州立大学教授、中国人力资本与劳动研究中心教授 Belton M. Fleisher 主持发布会，美国佐治亚理工大学经济学院教授、中国人力与劳动经济研究中心主任李海峥教授，人力资本终生收入法的创始人之一 Barbara Fraumeni 教授作中国人力资本报告。中央财经大学副校长史建平、济南高新区管委会副主任张维国出席发布会并致欢迎词。随后，特邀嘉宾陕西师范大学教育实验经济研究所所长史耀疆教授出席发布会并对人力资本报告进

行讨论点评。慕尼黑大学的经济学教授，教育经济学中心的主任 Ludger Wößmann 做主题演讲。

此次会议共收到 95 篇投稿，选择了 39 篇在 8 个并行会场中进行了学术研讨，涵盖了人力资本与劳动经济学相关的包括教育、认知、健康、收入、移民和人力资本度量等主题。

Brief Introductions

to the Specially Invited Speakers and Discussants

Keynote Speakers:

James J. Heckman

James J. Heckman is the Henry Schultz Distinguished Service Professor of Economics at the University of Chicago, a Nobel Memorial Prize winner in economics and an expert in the economics of human development. Through the university's Center for the Economics of Human Development, he has conducted groundbreaking work with a consortium of economists, developmental psychologists, sociologists, statisticians and neuroscientists showing that quality early childhood development heavily influences health, economic and social outcomes for individuals and society at large. Professor Heckman's work has been devoted to the development of a scientific basis for economic policy evaluation, with special emphasis on models of individuals and disaggregated groups, and to the problems and possibilities created by heterogeneity, diversity and unobserved counterfactual states. His recent research focuses on human development and lifecycle skill formation, with a special emphasis on the economics of early childhood development.

Since 1973, he has served as a professor of economics at the University of Chicago, where he directs the Economics Research Center, the Center for the Economics of Human Development, and the Center for Social Program Evaluation at the Harris School of Public Policy. He is a professor of law at the University of Chicago School of Law, senior research fellow at the American Bar Foundation, and research fellow at the Institute for Fiscal Studies. He is also a member of the National Academy of Sciences, the Econometric Society, the Society of Labor Economics and the American Statistical Association, and a fellow of the American Academy of Art and Sciences.

Ludger Wößmann

Ludger Woessmann is Professor of Economics at the University of Munich and Director of the Ifo Center for the Economics of Education at the Ifo Institute. His main research interests are the determinants of long-run prosperity and of student achievement. Special focusses address the importance of education for economic prosperity – individual and societal, historical and modern – and the importance of institutions of the school systems for efficiency and equity. Further research topics cover aspects of economic history, economics of religion, and the Internet. His work was rewarded, among others, with the Gossen Prize of the German Economic Association, the Young Economist Award of the European Economic Association, the EIB Prize of the European Investment Bank, and the Bruce H. Choppin Memorial Award of the International Association for the Evaluation of Educational Achievement. He is Fellow of the International Academy of Education, Member of the German National Academy of Sciences Leopoldina, the German Academy of Science and Engineering (acatech), and the Academic Advisory Council of the German Federal Ministry of

Economics, Chairman of the Research Committee on Economics of Education of the German Economic Association, and coordinator of the European Expert Network on the Economics of Education (EENEE). He is co-editor of the Handbook of the Economics of Education and co-organizer of the annual CESifo Area Conference on the Economics of Education and held over 250 invited presentations. Among his over 250 academic publications are 75 articles in refereed journals, including the Quarterly Journal of Economics, the Journal of Economic Literature, the Economic Journal, and the Journal of Public Economics, as well as several books.

Specially-Invited Discussants:

Yongmiao Hong

Professor Hong is currently the Ernest S. Liu Professor of Economics and International Studies in Department of Economics at Cornell University. He is also Professor of Statistics and a field member in Department of Statistics and Data Science and a field member in Center of Applied Mathematics at Cornell University. Professor Hong joined Cornell University in 1993. He was President of Chinese Economists Society in North America in 2009-2010.

Professor Hong's research interests include model specification testing, nonlinear time series analysis, financial econometrics, and empirical studies on Chinese economy and financial markets. He publishes refereed articles in mainstream economic, financial and statistical journals such as Annals of Statistics, Biometrika, Econometric Theory, Econometrica, International Economic Review, Journal of American Statistical Association, Journal of Applied Econometrics, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Political Economy, Journal of Royal Statistical Society, Quarterly Journal of Economics, Review of Economic Studies, Review of Economics and Statistics, and Review of Financial Studies.

Jong-Wha Lee

Jong-Wha Lee is a professor of economics at Korea University. He served as a senior adviser for international economic affairs to former President of South Korea. He was also previously Chief Economist and Head of the Office of Regional Economic Integration at the Asian Development Bank and an economist at the International Monetary Fund. After Dr. Lee obtained his Ph.D. and Master's degree in Economics from Harvard University, he has taught at Australian National University, Harvard University and Peking University and served as a consultant to the Harvard Institute for International Development, the Inter-American Development Bank, the International Monetary Fund, the United Nations Development Programme, and the World Bank.

Lee has written and published extensively on topics relating to human capital, growth, financial crises, and economic integration in leading academic journals such as American Economic Review, Journal of Monetary Economics, Journal of International Economics, Journal of Development Economics, Journal of Economic Growth, and Review of Economics and Statistics, as well as several books. He was awarded Cheongnam Prize (best young Korean economist), Maekyung Economist

Award in 1997 and Dasan Economics Award in 2015. He is a regular columnist for Project Syndicate and Korea JoongAng Daily.

特邀评论嘉宾中文简介

主题演讲主讲嘉宾

James J. Heckman

詹姆斯·约瑟夫·赫克曼（James J. Heckman）是芝加哥大学亨利·舒尔茨（Henry Schultz）杰出经济学教授，2000年诺贝尔经济学奖获得者。通过芝加哥大学的个体发展经济学中心，他与经济学家，心理学家，社会学家，统计学家和神经科学家组成的团队开展了一系列开创性的工作，这些研究表明，幼儿期间所受冲击严重影响着个人的健康和整个社会的福利。赫克曼教授的工作致力于拓展经济政策评估的科学基础，特别着重于个人和分类群体的模型，以及计量经济学和统计学中异质性，多样性和未观察到的反事实状态的研究。他最新的研究方向专注于生命周期中的技能形成过程，使用经济学研究儿童的成长过程。

自1973年以来，他一直在芝加哥大学担任经济学教授，他领导着芝加哥大学经济学研究中心，个体发展经济学中心和哈里斯公共政策学院的社会项目评估中心。他是芝加哥大学法学院的法学教授，美国律师协会的资深院士和财政研究所的院士。他还是美国国家科学院，计量经济学学会，劳动经济学学会和美国统计协会的院士，也是美国艺术与科学研究院的院士。

Ludger Wößmann

慕尼黑大学的经济学教授，教育经济学中心的主任。他的主要研究兴趣是长期繁荣和学生成就的决定因素。重点关注教育对个人和社会，历史和现代经济繁荣的重要性，以及学校系统机构对效率和公平的重要性。进一步的研究主题包括经济史，宗教经济学和互联网方面。他的工作获得了德国经济协会的戈森奖，欧洲经济协会的年轻经济学家奖，欧洲投资银行的EIB奖以及国际教育成绩评估协会的布鲁斯·霍普辛纪念奖。他是国际教育学院院士，德国国家科学院、德国科学与工程学院成员，德国联邦经济部学术咨询委员会委员，德国研究委员会教育经济协会主席，欧洲教育经济学专家网（EENEE）的负责人。他是《教育经济学手册》的共同编辑，也是年度CESifo地区教育经济学会议的联合组织者，并举行了250多次受邀演讲。在他的250多种学术出版物中，有75篇在相关期刊上发表，其中包括《Quarterly Journal of Economics》，《Journal of Economic Literature》，《Economic Journal》和《Journal of Public Economics》等。

人力资本报告特邀点评嘉宾

洪永淼

洪永淼教授目前是康奈尔大学经济学系的 Ernest S. Liu 经济学和国际研究教授。他还是康奈尔大学统计学教授，统计与数据科学系的成员和应用数学中心的成员。洪教授于 1985 年获得厦门大学物理学学士学位，于 1988 年获得厦门大学经济学硕士学位，并于加利福尼亚大学圣地亚哥分校获得经济学博士学位，随后于 1993 年加入康奈尔大学担任教职。2009 到 2010 年期间，他担任北美中国经济学家学会主席。洪教授的研究兴趣包括模型规格检验，非线性时间序列分析，金融计量经济学以及对中国经济和金融市场的实证研究。他在主流经济，金融和统计期刊上发表了同行评审文章，例如《Annals of Statistics》，《Biometrika》，《Econometric Theory》，《Econometrica》，《International Economic Review》，《Journal of American Statistical Association》，《Journal of Applied Econometrics》，《Journal of Business and Economic Statistics》，《Journal of Econometrics》，《Journal of Political Economy》，《Journal of Royal Statistical Society》，《Quarterly Journal of Economics》，《Review of Economic Studies》，《Review of Economics and Statistics》，和《Review of Financial Studies》。

Jong-Wha Lee

李教授是高丽大学经济学教授。他曾任韩国前总统国际经济事务高级顾问。他还曾任亚洲开发银行首席经济学家兼区域经济一体化办公室负责人，国际货币基金组织经济学家。李博士拥有哈佛大学的经济学硕士学位和博士学位，后曾在澳大利亚国立大学，哈佛大学和北京大学任教，并曾担任哈佛大学国际发展研究所，美洲开发银行，国际货币基金组织，联合国开发计划署和世界银行的顾问。

他曾在等知名学术期刊上发表了有关人力资本，增长，金融危机和经济一体化的主题方面的论文。包括《American Economic Review》，《Journal of Monetary Economics》，《Journal of International Economics》，《Journal of Development Economics》，《Journal of Economic Growth》，以及《Review of Economics and Statistics》。他曾获得 1997 年的 Cheongram 经济学奖（韩国最佳年轻经济学家），Maekyung 经济学家奖和 2015 年 Dasan 经济奖。他是 Project Syndicate 和《韩国中央日报》的专栏作家。

BRIEF CONFERENCE PROGRAM

SATURDAY, DECEMBER 5th
(Online Meeting, the time is subject to **Beijing Time**)

PLENARY SESSION 1

- 08:00-09:25 **The Release of the 12th China Human Capital Report-2020**
(See detailed agenda in a separate sheet)
- 09:30-10:45 **Keynote Speech 1**

PARALLEL SESSIONS

- | | | | | |
|-------------|---------------------------|---------------------|---------------------|--------------------|
| 11:00-12:40 | Parallel Session A | Session A-1, | Session A-2, | Session A-3 |
| 14:00-15:40 | Parallel Session B | Session B-4, | Session B-5, | Session B-6 |
| 15:45-17:25 | Parallel Session B | Session B-7, | Session B-8, | Session B-9 |

PLENARY SESSION 2

- 17:30-18:45 **Keynote Speech 2**
- 18:45-19:00 **Closing Remarks**

简要会议时间安排

12月5日 星期六
(线上会议, 按北京时间)

全体会议第一部分

- 08:00-09:25 第十二届中国人力资本指数及报告发布-2020年
(详细议程请见独立表格)
- 09:30-10:45 主题演讲 1

分会

- | | | | | |
|-------------|------|--------|-----|-----|
| 11:00-12:40 | 分会 A | 分会 A-1 | A-2 | A-3 |
| 14:00-15:40 | 分会 B | 分会 B-4 | B-5 | B-6 |
| 15:45-17:25 | 分会 B | 分会 B-7 | B-8 | B-9 |

全体会议第二部分

- 17:30-18:45 主题演讲 2
- 18:45-19:00 会议闭幕致词

PLENARY SESSION SCHEDULE

SATURDAY, DECEMBER 5th

(Online Meeting, the time is subject to **Beijing Time**)

PLENARY SESSION 1

08:00-08:10 **Opening and Welcome Remark**

Chair: Professor Zhiqiang Liu (State University of New York at Buffalo & Special-term Professor, Associate Director, CHLR)

Speaker: Jianping Shi (Vice President, Central University of Finance and Economics)

08:10-08:55 **China Human Capital Report 2020**

Chair: Professor Cynthia A. Bansak (St. Lawrence University & Special-term Professor, CHLR)
Professor Belton M. Fleisher (Ohio State University & Special-term Professor, CHLR)

Speaker: Professor Barbara M. Fraumeni (University of Southern Maine & Special-term Professor, CHLR)

Haizheng Li (Professor, Georgia Institute of Technology & CHLR Director)

08:55-09:20 **Invited Discussants Comment on Human Capital Report**

Professor Yongmiao Hong (Cornell University)

Professor Jong-Wha Lee (Korea University)

09:20-09:25 **Q&A**

09:30-10:30 **Keynote Speech 1**

Chair: Professor Haizheng Li (Georgia Institute of Technology & CHLR Director)

Speaker: Professor James Heckman (University of Chicago)

10:30-10:45 **Q&A**

PLENARY SESSION 2

17:30-18:30 **Keynote Speech 2**

Chair: Professor Sophie Wang (Assistant Director, CHLR)

Speaker: Professor Ludger Woessmann (University of Munich, Director of the ifo Center for the Economics of Education)

18:30-18:45 **Open Questions**

18:45-19:00 **Conference Closing Remarks**

Speaker: Professor Sophie Wang (Assistant Director, CHLR)

COMPLETE PROGRAM

SATURDAY, DECEMBER 5th

PLENARY SESSION 1

The Release of the 12th China Human Capital Report-2020 & Keynote Speech 1

(Online Meeting, 08:00 AM-10:45 AM, Beijing time)

PARALLEL SESSIONS

Session A-1: College Admission and School Performance

(11:00 AM-12:40 PM, Beijing Time)

Chair: *David Ong* (Jinan University)

Matching Mechanisms, Justified Envy, and College Admissions Outcomes

Presenter: *Yang Song* (Colgate University)

Discussant: *David Ong* (Jinan University)

The College Admissions Contribution to the Labor Market Beauty Premium

Presenter: *David Ong* (Jinan University)

Discussant: *Yang Song* (Colgate University)

High-Speed Rail Network and Brain Drain: Evidence from College Admission Scores in China

Presenter: *Shiyu Cheng* (University of Kentucky)

Discussant: *Zhida Song* (Tsinghua University)

The Impact of Special Economic Zone on Students' Examination Performances: Evidence from China

Presenter: *Zhida Song* (Tsinghua University)

Discussant: *Shiyu Cheng* (University of Kentucky)

Session A-2: Firm and Inequality

(11:00 AM-12:40 PM)

Chair: *Jong-Wha Lee* (Korea University)

Education Quality and Differences in Income and Growth across Countries

Presenter: *Jong-Wha Lee* (Korea University)

Discussant: *Wei Chi* (Tsinghua University)

Have Early Career Racial Gaps Changed Across Two Cohorts of American Men?

Presenter: *Sai Luo* (University of Maryland)

Discussant: *Jing Xu* (Georgia Institute of Technology)

The Human Capital of Firm's Leadership and Total Factor Productivity

Presenter: *Jing Xu* (Georgia Institute of Technology)

Discussant: *Sai Luo* (University of Maryland)

The Role of Human Capital and Social Capital on Executives' Turnover

Presenter: *Wei Chi* (Tsinghua University)

Discussant: *Hanol Lee* (Southwestern University of Finance and Economics)

Session A-3: Peer Effects and Schooling

(11:00 AM-12:40 PM)

Chair: *Shan Li* (Central University of Finance and Economics)

Sibling Spillover in Rural China: A Story of Sisters and Daughters

Presenter: *Cynthia Bansak* (St. Lawrence University)

Discussant: *Shan Li* (Central University of Finance and Economics)

Peer Effects and Cognitive Ability Formation

Presenter: *Xin Gu* (Georgia Institute of Technology)

Discussant: *Cynthia Bansak* (St. Lawrence University)

Understanding Spillover of Peer Parental Education: Randomization Evidence and Mechanisms

Presenter: *Jian Zou* (University of Illinois)

Discussant: *Xin Gu* (Georgia Institute of Technology)

Better School, Better Score? Evidence from Chinese College Entrance Examination

Presenter: *Xinyan Liu* (Chinese University of Hong Kong)

Discussant: *Jian Zou* (University of Illinois)

Session B-4: Fertility Choice and Childcare

(14:00 PM-15:40 PM)

Chair: *Ning Jia* (Central University of Finance and Economics)

Are Two Children Better Than One? Evidence from an Experiment of Decision Making

Presenter: *Xun Li* (Wuhan University)

Discussant: *Ning Jia* (Central University of Finance and Economics)

The Effects of Relaxing the One-Child Policy

Presenter: *Ning Jia* (Central University of Finance and Economics)

Discussant: *Xun Li* (Wuhan University)

Childcare Choice and the Long-Run Human Capital Outcomes in China

Presenter: *Lei Lei* (Southwestern University of Finance and Economics)

Discussant: *Jingjing Gao* (Peking University)

The Association between Verbal Expression Richness of Caregiver and Early Childhood Development in Rural China

Presenter: *Jingjing Gao* (Peking University)

Discussant: *Lei Lei* (Southwestern University of Finance and Economics)

Session B-5: Social Preference and Non-cognitive Skills

(14:00 PM-15:40 PM)

Chair: *Xiuli Sun* (Southwestern University of Finance and Economics)

To Trust or Not to Trust? Trust in Strangers, Market Institutions and Income

Presenter: *Bing Ye* (Zhejiang University)

Discussant: *Yunsen Li* (Southwest University of Political Science and Law)

School Boarding and Students' Pro-social Preference

Presenter: *Yunsen Li* (Southwest University of Political Science and Law)

Discussant: *Bing Ye* (Zhejiang University)

Does Willpower in Youth Determine Your Future?

Presenter: *Yuejun Zhong* (Shanghai Jiao Tong University)

Discussant: *Xiuli Sun* (Southwest University of Political Science and Law)

Noncognitive Abilities, Financial Literacy and Stock Market Participation

Presenter: *Xiuli Sun* (Southwestern University of Finance and Economics)

Discussant: *Yuejun Zhong* (Shanghai Jiao Tong University)

Session B-6: Health and Labor Market

(14:00 PM-15:40 PM)

Chair: *Jun Han* (Renmin University of China)

Memory of Famine: Does Famine Experience Affect Household Food Waste Behavior?

Presenter: *Yawen Ding* (Peking University)

Discussant: *Tao Bu* (Beijing Jiaotong University)

Does High-Speed Rail Relieve Income-Related Health Inequalities: A Quasi-Natural Experiment from China

Presenter: *Tao Bu* (Beijing Jiaotong University)

Discussant: *Jiyuan Wang* (Central University of Finance and Economics)

How Does Medical Insurance Contribution Affect Corporate Value? Evidence from China

Presenter: *Jiyuan Wang* (Central University of Finance and Economics)

Discussant: *Yi Zhang* (Central University of Finance and Economics)

University Discrimination in the Job Market - Evidence from Employer Learning in China

Presenter: *Jun Han* (Renmin University of China)

Discussant: *Fanzheng Yang* (Central University of Finance and Economics)

Employment Status and Reservation Wage for High-skilled Job Seekers: A Micro-Big Data Based Investigation

Presenter: *Xianfang Xiong* (Hunan University)

Discussant: *Chen Huang* (Central University of Finance and Economics)

Session B-7: Technology in Education and Labor Market

(15:45 PM-17:25 PM)

Chair: *Yue Zhang* (Southwestern University of Finance and Economics)

Does Online Education Work? Evidence from Graduating Students in a High School during COVID-19

Presenter: *Yue Zhang* (Southwestern University of Finance and Economics)

Discussant: *Xuejing Shen* (Peking University)

Online Learning under the COVID-19 in Rural China

Presenter: *Xuejing Shen* (Peking University)

Discussant: *Yue Zhang* (Southwestern University of Finance and Economics)

Whether Remigrate, Return Back or Stay in? An Empirical Study Based on the Online Job Search in China

Presenter: *Tianhua Zhang* (South China Normal University)

Discussant: *Kaizhao Guo* (University of Glasgow)

College Wage Premium and Computer Use in China

Presenter: *Kaizhao Guo* (University of Glasgow)

Discussant: *Tianhua Zhang* (South China Normal University)

Session B-8: Entrepreneurship and Informal Employment

(15:45 PM-17:25 PM)

Chair: *Sophie Wang* (CHLR, Central University of Finance and Economics)

Do Land Requisitions Promote the Entrepreneurship of Land-Lost Farmers?

Presenter: *Xiaowen Huang* (South China Agricultural University)

Discussant: *Yulong Chen* (Central University of Finance and Economics)

Urbanization and Informal Economy: Evidence from Chinese Municipalities

Presenter: *Sophie Xuefei Wang* (Central University of Finance and Economics)

Discussant: *Feicheng Wang* (University of Göttingen)

Trade Liberalisation and Informal Employment: Empirical Evidence from China

Presenter: *Feicheng Wang* (University of Göttingen)

Discussant: *Sunwoo Hwang* (University of Cambridge)

The Effects of Contingent Employment on Innovation and Entrepreneurship

Presenter: *Sunwoo Hwang* (University of Cambridge)

Discussant: *Sophie Xuefei Wang* (Central University of Finance and Economics)

Session B-9: Human Capital and Growth

(15:45 PM-17:25 PM)

Chair: *Xiaobei Zhang* (Zhejiang University of Finance and Economics)

Measures of Human Capital and the Mechanics of Economic Growth

Presenter: *Xiaobei Zhang* (Zhejiang University of Finance and Economics)

Discussant: *Nina Yin* (Central University of Finance and Economics)

Labor Share and Innovation in China

Presenter: *Xun Xiong* (Hunan University)

Discussant: *Xiaobei Zhang* (Zhejiang University of Finance and Economics)

Skill Complementarity in Teams: Matching, Sorting and Agglomeration in China

Presenter: *Yang Wang* (Shanghai Jiao Tong University)

Discussant: *Linda Glawe* (University of Hagen)

New Evidence on the Human Capital Dynamics within China - Is There a Human Capital Trap?

Presenter: *Linda Glawe* (University of Hagen)

Discussant: *Shuai Zhao* (University of Leicester)

Firm-specific Human Capital Accumulation: Evidence from Brazil

Presenter: *Shuai Zhao* (University of Leicester)

Discussant: *Yang Wang* (Shanghai Jiao Tong University)

PLENARY SESSION 2

Keynote Speech 2

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Closing Remarks of the 12th International Symposium on Human Capital and Labor Markets

(17:30 PM-19:00 PM, Beijing time)