

# JIHEE KIM

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## CURRENT APPOINTMENT

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<b>Korea Advanced Institute of Science and Technology (KAIST)</b> School of Business and Technology Management, College of Business Associate Professor Assistant Professor	Daejeon, Korea  Mar 2022-current Aug 2013-Feb 2022
<b>Atlas AI</b> Visiting Professor	Palo Alto, CA, USA Apr 2022-current
<b>Data Capital Management</b> Visiting Professor	NYC, NY, USA Mar 2022-current
<b>Institute of Basic Science</b> Visiting Research Fellow at Data Science Group	Daejeon, Korea Aug 2020-current

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## RESEARCH INTERESTS

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Income inequality, Economic growth theory, Machine learning applications in economics, Environment and energy policy

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## EDUCATION

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<b>Stanford University</b> Ph.D. in Management Science and Engineering <u>Thesis Title</u> : “ <i>Essays on Top Income Inequality</i> ” <u>Thesis Advisors</u> : Charles I. Jones and John P. Weyant	Stanford, CA Sep 2006–Jun 2013
<b>Stanford University</b> M.A. in Economics Thesis: “ <i>Ideas and Non-balanced Economic Growth</i> ”	Stanford, CA Jun 2011
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> B.S. in Computer Science Graduated with honors (Summa Cum Laude)	Daejeon, Korea Jul 2005

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## PUBLICATION

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### [Economic Research]

- (1) “The Economic Costs of Trade Sanctions: Evidence from North Korea,” [\[Link\]](#)  
**Jihee Kim**, Kyoochul Kim, Sangyoon Park, and Chang Sun  
*Conditionally accepted at the Journal of International Economics*
- (2) “The Impact of Chinese Shadow Banking Risk on Global Commodity Markets,” [\[Link\]](#)  
Yonghwan Jo, **Jihee Kim**, and Francisco Santos  
*Journal of Empirical Finance*, March 2022

- (3) “Revisiting the Time Series Momentum Anomaly,” [\[Link\]](#)  
Yonghwan Jo and **Jihee Kim**  
*Annals of Economics and Finance*, November 2019
- (4) “A Schumpeterian Model of Top Income Inequality,” [\[Link\]](#)  
Charles I. Jones and **Jihee Kim**  
*Journal of Political Economy*, October 2018  
\*\*\* **Winner of the 2021 Robert E. Lucas Jr. Prize** \*\*\*

#### **[Interdisciplinary - Journal Papers]**

- (5) “A Human-machine Collaborative Approach Measures Economic Development with Satellite Imagery” [\[Main\]](#)[\[Supplementary\]](#)  
Donghyun Ahn, Jeasurk Yang, Meeyoung Cha\*, Hyunjoo Yang\*, **Jihee Kim\***, Sangyoon Park\*, Sungwon Han, Eunji Lee, Susang Lee, Sungwon Park (\* co-corresponding authors)  
*Accepted at Nature Communications*.
- (6) “Disaster Assessment Using Computer Vision and Satellite Imagery: Applications in Detecting Water-Related Building Damages,” [\[Link\]](#)  
Danu Kim, Jeongkyung Won, Eunji Lee, Kyungryl Park, **Jihee Kim**, Sangyoon Park, Hyunjoo Yang, and Meeyoung Cha  
*Frontiers in Environmental Science* (IF=5.411), October 2022
- (7) “Assessing Proliferation Uncertainty in Civilian Nuclear Cooperation Under New Power Dynamics of the International Nuclear Trade,” [\[Link\]](#)  
Philseo Kim, **Jihee Kim\***, Man-Sung Yim  
*Energy Policy* (\*co-corresponding author, IF=6.142), April 2022
- (8) “What Influences Public Opinions on Nuclear Energy Before and After Deliberation: South Korea's Deliberation on Closing Nuclear Reactors,” [\[Link\]](#)  
Philseo Kim, **Jihee Kim\***, Man-Sung Yim  
*Applied Energy* (\*co-corresponding author, IF=9.746), July 2020

#### **[Interdisciplinary - Full Peer-reviewed Conference Papers in Computer Science]**

- (9) “Learning Economic Indicators by Aggregating Multi-level Geospatial Information,” [\[Link\]](#)  
Sungwon Park, Sungwon Han, Donghyun Ahn, Jaeyeon Kim, Jeasurk Yang, Susang Lee, Seunghoon Hong, **Jihee Kim**, Sangyoon Park, Hyunjoo Yang, Meeyoung Cha  
AAAI 2022: AAAI Conference on Artificial Intelligence.
- (10) “Learning to Score Economic Development from Satellite Imagery,” [\[Link\]](#)  
Sungwon Han, Donghyun Ahn, Sungwon Park, Jeasurk Yang, Susang Lee, **Jihee Kim**, Hyunjoo Yang, Sangyoon Park, Meeyoung Cha,  
KDD 2020: ACM Conference on Knowledge Discovery and Data Mining.
- (11) “SolutionChat: Real-time Moderator Support for Chat-based Structured Discussion,” [\[Link\]](#)  
Sung-Chul Lee, Jaeyoon Song, Seongho Park, Eun-Young Ko, **Jihee Kim**, Juho Kim  
CHI 2020: ACM Conference on Human Factors in Computing Systems.
- (12) “BudgetMap: Engaging Taxpayers in the Issue-Driven Classification of a Government Budget,” [\[Link\]](#)  
Nam Wook Kim, Jonghyuk Jung, Eun-Young Ko, Songyi Han, Chang Won Lee, Juho Kim, **Jihee Kim**.  
CSCW 2016: ACM Conference on Computer-Supported Cooperative Work and Social Computing
- (13) “Factful: Engaging Taxpayers in the Public Discussion of a Government Budget,” [\[Link\]](#)  
Juho Kim, Eun-Young Ko, Jonghyuk Jung, Chang Won Lee, Nam Wook Kim, **Jihee Kim**.  
CHI 2015: ACM Conference on Human Factors in Computing Systems.  
\*\*\* **Honorable Mention Award (top 5%)** \*\*\*
- (14) “Content-Aware Kinetic Scrolling for Supporting Web Page Navigation,” [\[Link\]](#)  
Juho Kim, Amy X. Zhang, **Jihee Kim**, Robert C. Miller, Krzysztof, Z. Gajos.  
UIST 2014: ACM Symposium on User Interface Software and Technology.

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#### **WORKING PAPERS**

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- (1) “The Impact of COVID-19 Stimulus Payments on Local Small Businesses” [\[Link\]](#)  
**Jihee Kim** and Susang Lee,  
*under review at the Journal of Macroeconomics.*
- (2) “QuestionChat: Investigating the Effect of Real-time Question Recommendation in Chat-based Discussion,”  
Sung-chul Lee, Eunjeong Kang, Eun-Young Ko, **Jihee Kim**, Juho Kim,  
*under review at ACM Transactions on Computer-Human Interaction (TOCHI).*
- (3) “The Trilemma of Stablecoin” (with Yujin Kwon, Dawn Song, and Yongdae Kim)
- (4) “Teaching Machines to Measure Economic Activities from Satellite Images: Challenges and Solutions” [\[Link\]](#) (with Meeyoung Cha, Sangyoon Park, Hyunjoo Yang and our student team - Donghyun Ahn, Sungwon Han, Ian Jaeyeon Kim, Susang Lee, Sungwon Park, Jeasurk Yang)  
- White paper for my multidisciplinary research team’s project
- (5) “Institutional Changes and CEO Pay Inequality” [\[Link\]](#) (with Hansoo Choi and Eun-Young Ko)
- (6) “The Effect of the Top Marginal Tax Rate on Top Income Inequality” [\[Link\]](#)
- (7) “Ideas and Non-Balanced Economic Growth”

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## WORK-IN-PROGRESS

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- (1) “Revisiting the Market Equilibrium Model of CEO Pay: Post-crisis Changes” (with Hansoo Choi)
- (2) “Information Nudges in Charitable Giving” (with Simon Seongbin Yun, Jeong-ah Park, and Hyoshin Kim)
- (3) “Understanding Urban Growth by Geospatial Growth Forecasting” (with Gabriel Cadamuro, Priyadharshini Tamizharasi Suresh, and Georgios Ouzounis)

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## OTHER PUBLICATIONS

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### [Interdisciplinary - Peer-reviewed Extended Abstracts in Computer Science Conferences]

- (1) “Crowdsourcing Perspectives on Public Policy from Stakeholders,” [\[Link\]](#)  
Hyunwoo Kim, Eun-Young Ko, Donghoon Han, Sung-chul Lee, Simon Perrault, **Jihee Kim**, Juho Kim,  
CHI 2019 Extended Abstracts.
- (2) “Micro-NGO: Tackling Wicked Social Problems with Problem Solving and Action Planning Support in Chat,” [\[Link\]](#)  
Sung-Chul Lee, **Jihee Kim**, Juho Kim,  
CHI 2018 Extended Abstracts.
- (3) “BudgetMap: Issue-Driven Navigation for a Government Budget,” [\[Link\]](#)  
Nam Wook Kim, Chang Won Lee, Jonghyuk Jung, Eun-Young Ko, Juho Kim, **Jihee Kim**  
CHI 2015 Extended Abstracts.

### [Workshop Papers in Computer Science Conferences (non-archived)]

- (4) “Disaster assessment using computer vision and satellite imagery: Applications in water-related building damage detection,”  
Danu Kim, Jeongkyung Won, Eunji Lee, Kyungryl Park, **Jihee Kim**, Sangyoon Park, Hyunjoo Yang, and Meeyoung Cha,  
AAAI 2023 Workshop on Artificial Intelligence for Social Good (AI4SG).
- (5) “Human-in-the-loop solution for scoring economic development from geospatial data,” [\[Link\]](#)  
Sungwon Park, Donghyun Ahn, Sungwon Han, Eunji Lee, Danu Kim, Jeasurk Yang, Susang Lee, Sangyoon Park, Hyunjoo Yang, **Jihee Kim**, Meeyoung Cha,  
NeurIPS 2020 workshop on Human And Machine in-the-Loop Evaluation and Learning Strategies (HAMLETS).
- (6) “Micro-NGO: Crowd-Driven Social Activism Via A Chat-Based Online Platform,” [\[Link\]](#)  
Sung-Chul Lee, **Jihee Kim**, Juho Kim,  
CSCW 2017 Workshop on Crowdsourcing Law and Policy.

- (7) “Changing News Media Landscape in South Korea,” [\[Link\]](#)  
 Hongjun Lim, Choongho Chung, **Jihee Kim**, Juho Kim, Sue Moon, Meeyoung Cha,  
 WWW 2017 Workshop on Social News On the Web.
- (8) “BudgetWiser: Gamification Design Opportunities in the Government Budget Domain,” [\[Link\]](#)  
 Nam Wook Kim, **Jihee Kim**, Juho Kim, Chang Won Lee, Eun-Young Ko, Jonghyuk Jung,  
 CHI 2015 Workshop on Researching Gamification.

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## TEACHING

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### KAIST

MSB 701 Advanced Econometrics (Spring 2020, 2021)  
 MSB 408 Economics of Technology (Fall 2019, 2021)  
 ECN 312 Intermediate Macroeconomics (Spring 2014, 2015, 2017, 2018, 2020, 2021)  
 ECN 301/MSB301 Econometrics (Undergraduate, Fall 2014, 2015, 2016, Spring 2017, 2018)  
 ITM 512/ECN 301 Econometrics (Graduate/Undergraduate Fall 2013)  
 MSB881 Special Topics: Macroeconomic Theory (Graduate, Fall 2017)

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## SCHOLARSHIPS & HONORS

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<b>Tae-Sung Kim Memorial Prize</b>	Feb 2023
distinguished Korean economist under age 40 selected by Korean Econometric Society, honoring the late Korean economist Tae-Sung Kim	
<b>Robert E. Lucas Jr. Prize</b>	Feb 2021
biannual award for the most interesting paper in the <i>Journal of Political Economy</i>	
<b>KAIST Business School Research Award</b>	Dec 2018
<b>ACM CHI Honorable Mention Award</b>	Apr 2015
<b>The Samsung Scholarship</b>	Sep 2006 – Jun 2010

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## SEMINAR & CONFERENCE PRESENTATIONS

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2023: Seoul National University (Apr)  
 2022: University College Dublin (Feb), Claremont McKenna College (Sep), Seoul National University  
 Graduate School of Public Administration (Nov)  
 2021: Sungkyunkwan University (May), KER International Conference (Jul), Hanyang University (Sep)  
 2020: KER International Conference (Aug), 2020 Banca d'Italia and FRB Joint Conference (Nov)  
 2019: Seoul National University Business School (Mar)  
 2018: DIW Berlin (Oct), Postech EE Dept. (Nov), Korea University (Nov), KAIST Math Dept. (Nov),  
 Australasian Finance & Banking Conference (Dec)  
 2017: Korea Institute for International Economic Policy (Jan), Bank of Korea Economic Research  
 Institute (Aug)  
 2015: Korea Institute of Public Finance (Apr), Yonsei University (May), Sogang University (Nov)  
 2014: Korea University (Apr)  
 2013: Sungkyunkwan University (Feb), Bank of Korea (Feb), KDI School of Public Policy (Feb), KAIST  
 (Feb), University of Mannheim (Feb)  
 2012: Stanford Macroeconomics Lunch Seminar (Dec), Federal Reserve Bank of San Francisco (Dec)  
 2011: Stanford Macroeconomics Lunch Seminar (Sep)

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## REFEREEING ACTIVITIES

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*Journal of Political Economy, American Economic Journal: Macroeconomics, The Economic Journal, Review of Economic Dynamics, Journal of Economic Dynamics and Control, Journal of Money, Credit, and Banking, European Economic Review, International Economic Review, Journal of Economic Inequality, Korea Economic Review, International Economic Journal, Journal of Economic Research*

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## SELECTED RESEARCH GRANTS

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- (1) “The Effect of Institutional Changes on Top Incomes”  
USD 20,000, 2021.05-2022.04., National Research Foundation of Korea
- (2) “Measuring North Korean Economy by Applying Machine Learning to Daytime Satellite Images”  
USD 12,000, 2021.02.-2021.12., KAIST
- (3) “Policy Making as a Public-Driven Process”  
USD 45,000, 2014.01.~ 2014.12., KAIST

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## CONTACT INFORMATION

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### Office Contact Information

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Tel. +82 42 350 4915

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## REFERENCES

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Professor Charles I. Jones  
STANCO 25 Professor of Economics,  
Stanford Graduate School of Business  
E335 Faculty Building, Stanford GSB,  
Stanford, CA 94305  
Tel. +1 650 725 9265 [chad.jones@stanford.edu](mailto:chad.jones@stanford.edu)

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