

Sukjin Han

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Professional Appointments

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| 2020– | Professor of Economics, School of Economics, University of Bristol, UK |
| Fall 2024 | Visiting Faculty, Stanford Graduate School of Business |
| Sep 2024 | Cowles Visitor, Yale University |
| 2012–2020 | Assistant Professor, Department of Economics, University of Texas at Austin |
| 2019–2020 | Visiting Faculty, Department of Economics, Rice University |
| Spring 2018 | Commander, Hawaii Space Exploration Analog and Simulation, NASA and University of Hawaii |
| Spring 2016 | Visiting Faculty, Cowles Foundation, Yale University |

Education

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| 2012 | Ph.D., Economics, Yale University |
| 2009 | M.A. / M.Phil., Economics, Yale University |
| 2005 | B.A. (<i>with highest honors</i>), Economics, Seoul National University |

Research Focus

Econometric Theory, Applied Econometrics
Treatment Effects and Program Evaluation, Optimal Treatment Choices, Nonstandard Inference
Machine Learning, Artificial Intelligence, Large Language Models, Visual and Text Data

Grants, Awards and Fellowships

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| 2022–2023 | Principal Investigator, The British Academy / Leverhulme Small Research Grant |
| 2022–2023 | Principal Investigator, FSSL Strategic Research Fund |
| 2022 | Principal Investigator, QR Strategic Priorities Fund, UK Research & Innovation |
| 2021–2023 | General Research Fund, School of Economics, University of Bristol |
| 2012–2019 | Fellow of R. J. Gonzalez Regents Chair in Economic Progress Based on Freedom & Private Enterprise |
| 2018 | Summer Research Assignment Award, UT Austin |
| 2017 | Department Summer RA Funding, UT Austin |
| 2011–2012 | Carl Arvid Anderson Prize Fellowship, Cowles Foundation |
| 2012 | Dissertation Fellowship, Yale University |
| 2008 | National Science Foundation Graduate Research Fellowship |
| 2006–2010 | Cowles Foundation Fellowship, Yale University |

Published and Forthcoming Papers

– “Policy Learning with Distributional Welfare” with Yifan Cui
Accepted, Journal of American Statistical Association

- “A Computational Approach to Identification of Treatment Effects for Policy Evaluation” with Shenshen Yang
Journal of Econometrics (2024), Vol. 240, 105680
- “Optimal Dynamic Treatment Regimes and Partial Welfare Ordering”
Journal of American Statistical Association (2024), Vol. 119, pp. 2000-2010 (*Editor’s Choice 2023)
- “Multiple Treatments with Strategic Interaction” with Jorge Balat
Journal of Econometrics (2023), Vol. 234, pp. 732-757
- “Comment: Individualized Treatment Rules Under Endogeneity”
Journal of American Statistical Association (2021), Vol. 116, pp. 192-195
- “Identification in Nonparametric Models for Dynamic Treatment Effects”
Journal of Econometrics (2021), Vol. 225, pp. 132-147
- “Nonparametric Estimation of Triangular Simultaneous Equations Models under Weak Identification”
Quantitative Economics (2020), Vol. 11, pp. 161-202
- “Estimation and Inference with a (Nearly) Singular Jacobian” with Adam McCloskey
Quantitative Economics (2019), Vol. 10, pp. 1019-1068
- “Estimation in a Generalization of Bivariate Probit Models with Endogenous Regressors” with Sungwon Lee
Journal of Applied Econometrics (2019), Vol. 34, pp. 994-1015
- “Censored Quantile Instrumental Variables Estimation with Stata” with Victor Chernozhukov, Ivan Fernandez-Val, and Amanda Kowalski
Stata Journal (2019), Vol. 19, pp. 1-14
- “Identification in a Generalization of Bivariate Probit Models with Endogenous Regressors” with Edward Vytlačil
Journal of Econometrics (2017), Vol. 199, pp. 63-73
- “How Would Information Disclosure Influence Organizations' Outbound Spam Volume? Evidence from a Field Experiment” with She He, Gene Moo Lee, and Andy Whinston
Journal of Cybersecurity (2016), Vol. 2, pp. 99-118
- “Invalidity of the Bootstrap and the m out of n Bootstrap for Confidence Interval Endpoints Defined by Moment Inequalities” with Donald Andrews
Econometrics Journal (2009), Vol. 12, pp. S172–S199

Working Papers

- “Estimating Causal Effects of Discrete and Continuous Treatments with Binary Instruments” with Victor Chernozhukov, Ivan Fernandez-Val and Kaspar Wuthrich
R&R, Econometrica
- “Shapes as Product Differentiation” with Eric Schulman, Kristen Grauman and Santhosh Ramakrishnan
R&R, RAND Journal of Economics
- “Copyright and Competition: Estimating Supply and Demand with Unstructured Data” with Kyungho Lee
EC’25
- “Set-Valued Control Functions” with Hiro Kaido
- “Mining Causality: AI-Assisted Search for Instrumental Variables”
- “On Quantile Treatment Effects, Rank Similarity, and the Variation of IVs” with Haiqing Xu
- “Semiparametric Models for Dynamic Treatment Effects and Mediation Analyses with Observational Data” with Sungwon Lee

- “Testing Information Ordering for Strategic Agents” with Hiro Kaido and Lorenzo Magnolfi
- “Inference for Interval-Identified Parameters Selected from an Estimated Set” with Adam McCloskey

Selected Work in Progress

- “Optimal Allocations of Export Credit Support” with Haeyeon Yoon, Sungwon Lee and Jung Hur
- “Effects of New Good Entry in Complementarity Markets: The Case of Font Market” with Matt Shum
- “Dynamic Roy Models” with Xiaohong Chen and Edward Vytlačil

Seminars and Conferences

Invited Seminars

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| 2025 | UPenn (planned), Queen’s U |
| 2024 | U of Washington, UC Davis, Uber, Berkeley, Stanford, Yale, Michigan State, Washington U St. Louis, Indiana, UC Santa Cruz, Johns Hopkins, Zhejiang U, U of Essex |
| 2023 | U of Oxford, Brown, Boston U, Boston College, UC Irvine, U of Reading |
| 2022 | Harvard, MIT, U College London, U of Amsterdam, U of Colorado Boulder, UC Riverside |
| 2021 | London School of Economics, KAIST, Sogang U |
| 2020 | U College London, U of Toronto, Simon Fraser U, Rutgers U, U of Illinois Urbana-Champaign, Rice U, U of Florida, U of Bristol, Queen Mary U London |
| 2019 | Rice U, Boston College, U of Bristol, Singapore Management U, National U of Singapore, U of Nebraska |
| 2018 | Chicago, Penn State, U of Southern California, Indiana, Rochester, National U of Singapore, Seoul National U |
| 2017 | Duke, U North Carolina, Boston U, Xiamen U, Seoul National U |
| 2016 | Yale, U of British Columbia, Brown |
| 2014 | Texas A&M |
| 2013 | U of British Columbia, Ohio State, Korea U, Sogang U |
| 2012 | Chicago Booth, SUNY Albany, U of Notre Dame, UT Austin, Sogang U, SKKU, Yonsei U |
| 2008 | MIT, Harvard |

Conferences

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| Oct 2025 | Cowles Conference (planned); Aarhus Econometrics Workshop (planned) |
| Aug 2025 | MLESC, Chicago Booth (planned); World Congress of Econometric Society, Seoul (planned) |
| Jun 2025 | IAAE Annual Conference, Turin; Cambridge Workshop in honor of Linton & Whang |
| May 2025 | American Causal Inference Conference |
| Feb 2025 | Swedish Researchers in Industrial Economics Workshop, Stockholm |
| Jan 2025 | NASM of Econometric Society, San Francisco |
| Dec 2024 | CFE-CMStatistics, London |
| Nov 2024 | Causal Data Science Meeting (virtual) |
| Sep 2024 | California Econometrics Conference |
| Aug 2024 | Econometric Society Interdisciplinary Frontiers (ESIF) Conference on Economics and AI+ML, Cornell |
| Jul 2024 | Annual Conference of the International Society for Clinical Biostatistics, Greece |

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| Jun 2024 | NASM of Econometric Society, Nashville; Asian Meeting of Econometric Society, Hangzhou; Econometrics Workshop of the Leuven Summer Event, KL Leuven |
| Apr 2024 | Advance in Econometrics Workshop, Manchester |
| Mar 2024 | Swedish Researchers in Industrial Economics Workshop, Stockholm |
| Dec 2023 | European Winter Meeting of Econometric Society, Manchester |
| Sep 2023 | Advance in Econometrics Conference, Bloomington |
| Jul 2023 | International Panel Data Conference, Amsterdam |
| Jun 2023 | IAAE Annual Conference, Oslo |
| Mar 2023 | Warwick-Turing Economics Data Science Workshop |
| Jan 2023 | NAWM of the Econometric Society, New Orleans |
| Dec 2022 | Computational and Methodological Statistics, London |
| Aug 2022 | CeMMAP/SNU, Seoul; Joint Statistical Meeting, DC |
| Jun 2022 | NASM of Econometrics Society, Miami; IAAE Annual Conference, London |
| Nov 2021 | Southern Economic Association Annual Meeting (virtual) |
| Jul 2021 | International Panel Data Conference (virtual) |
| Jun 2021 | Cowles Summer Conferences, Yale University (virtual), NASM of Econometrics Society (virtual), Asian Meeting of Econometric Society (virtual), EcoStat Conference (virtual) |
| Apr 2021 | Royal Economic Society Conference (virtual) |
| Jan 2021 | NAWM of Econometric Society (virtual) |
| Dec 2020 | European Winter Meeting of Econometric Society (virtual) |
| Nov 2020 | Southern Economic Association Annual Meeting (virtual) |
| Aug 2020 | World Congress of Econometric Society (virtual), KAEA Virtual Seminar Series, KER International Conference (virtual) |
| Jan 2020 | NAWM of Econometric Society, San Diego, CA |
| Nov 2019 | Southern Economic Association Annual Meeting, Fort Lauderdale, FL |
| Oct 2019 | Midwest Econometrics Group, Ohio State University |
| Aug 2019 | KER International Conference, Seoul, Korea |
| Jul 2019 | Bristol Econometrics Study Group, Bristol, UK |
| Jun 2019 | CeMMAP & WISE conference, Xiamen; Asian Meeting of Econometric Society, Xiamen, China |
| Mar 2019 | Workshop on “Personalized Treatment: Learning and Decision,” London, UK |
| Feb 2019 | Texas Econometrics Camp, Dallas |
| Jun 2018 | Asian Meeting of Econometric Society, Seoul, Korea; International Panel Data Conference, Seoul, Korea; China Meeting of Econometric Society, Shanghai, China |
| Jan 2018 | NAWM of Econometrics Society, Philadelphia |
| Oct 2017 | Midwest Econometrics Group, Texas A&M |
| Jun 2017 | IAAE Annual Conference, Sapporo, Japan; NASM of Econometrics Society, St. Louis |
| Apr 2017 | Conference on Econometrics and Models of Strategic Interactions, CEMMAP UCL & Vanderbilt |
| Sep 2016 | Interactions Conference, Northwestern University |
| Jun 2016 | NASM of Econometrics Society, Philadelphia; IAAE Annual Conference, University of Milan-Bicocca, Milan, Italy |
| Feb 2016 | Texas Econometrics Camp, Houston |

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| Jan 2016 | NAWM of Econometrics Society, San Francisco |
| Aug 2015 | World Congress, Montreal, Canada; Frontiers of Theoretical Econometrics, Konstanz, Germany |
| Feb 2015 | Texas Econometrics Camp, Houston |
| Sep 2014 | Midwest Econometrics Group, University of Iowa |
| Aug 2014 | KAEA Econometrics Summer Camp |
| Feb 2014 | Texas Econometrics Camp, Houston |
| Jun 2013 | Cowles Summer Conferences, Yale University; NASM of Econometrics Society, USC |
| Feb 2013 | Texas Econometrics Camp, Austin |
| Oct 2008 | CIREQ Conference on Inference with Incomplete Models, Montréal |

Conference Program Committee

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| 2023–2025 | Member of Program Committee, IAAE |
| 2021–2025 | Co-Organizer, Bristol Econometric Study Group Conference |

Referee Service

American Economic Review, Econometrica, Review of Economics Studies, Journal of Political Economy, Journal of the American Statistical Association, Quantitative Economics, Journal of Econometrics, Review of Economics and Statistics, Journal of Business and Economic Statistics, Journal of Applied Econometrics, Journal of the Royal Statistical Society Series B, Econometric Theory, Econometric Reviews, International Economic Review, Biometrika, Oxford Bulletin of Economics and Statistics, American Journal of Preventive Medicine, Electronic Journal of Statistics, Journal of Econometric Methods, Journal of Human Resources, Australian and New Zealand Journal of Statistics, Econometrics, Korean Economic Review, National Science Foundation

Student Advising

PhD (*main advisor)

*Oska Sheldon-Fentem (current student), *ESRC Fellowship Winner*
 *Stuart Lane (current student), *ESRC Fellowship Winner*
 *Eric Schulman (2022, Congressional Budget Office)
 *Shenshen Yang (2021, Tianjin University)
 Xinchun Gu (2018, Boston Consulting Group)
 Sungwon Lee (2018, National University of Singapore)
 Peter Toth (2018, University of Nevada)
 Gene Moo Lee, Computer Science, (2015, University of British Columbia)

Masters / MRes

Will Meakin (2024), Noorpreet Kaur (2023), Nish Dave (2021 *with distinction*)

Undergraduate Honors

Jordan Youngblood (2019), Lizzy Tan (2018), Dongsuk Jung (2017), Joonghyun Chin (2013), Nisma Bahaji (2013)

Teaching

Invited Lectures

June 2024 (Graduate) “Causal Inference,” Center for Data Science, Zhejiang University

University of Bristol

**Nominated for Inspiring and Innovative Teaching Award 2023*

Spring 2024–25 (Graduate) Machine Learning for Economics

Topics include: LASSO, SVM, random forest, bagging, boosting, neural network, transformers

Spring 2021–25 (Graduate) Econometrics II: Causal Inference

Summer 2025 (Graduate) Summer Dissertation

Topic: Economic Analysis with Unstructured Data

Spring 2021–24 (Graduate) Data Science for Economics: Introduction to Machine Learning

Summer 2021–24 (Graduate) Summer Dissertation

Topic: Algorithmic Fairness

Rice University

Spring 2020 (Undergraduate) Applied Econometrics

Fall 2019 (Graduate) Econometrics I

University of Texas at Austin

**Highest-Rated Instructor at Department of Economics in 2019*

Spring 2013–19 (Undergraduate) Introduction to Econometrics

Fall 2018 (Undergraduate) Advanced Econometrics: Causal Inference and Machine Learning

Fall 2014–17 (Graduate) Advanced Econometric Theory II

Fall 2013 (Graduate) Topics in Econometrics

Other Creative Work

“Why give away free fonts?” (2024) An essay about the economics of free fonts distributed by Baemin, featured in a book titled *Breadwinning Fonts*

“The Longest Goodbye” (2023) Being a film subject in documentary movie about psychological aspects of space exploration, by director Ido Mizrahy; Selected at *Sundance Film Festival*, Park City, US; Broadcasted on *BBC* and *PBS*

“Font Market Analysis from an Economic Perspective” Conversation in *LetterSeed* (2021), Volume 20

“Where the Sun Sets Blue” (2021) Artist publication and sculptures based on the experience in the simulated Mar mission, with visual artist Felicitas Rohden

“Cubic Interaction” (2020) 3D object, which is itself a puzzle, that visually represents economic agents’ strategic interaction, with designer Jiwon Park

“Altered Angles—Mars Mission” (2018) Art installation based on my experience with the simulated Mar mission, with visual artist Felicitas Rohden; Exhibited at *Kunst & Denker Contemporary Art Gallery*, Düsseldorf, Germany

“Crossing Dimensions” (2017) Developing a series of architectural environments that invoke experience of shifting dimensions, with composer Seoyoon Kim