

# Sukjin Han

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## Professional Appointments

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

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

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

– “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 Vytlacil  
*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*
- “Individualized Treatment Allocations with Distributional Welfare” with Yifan Cui  
*R&R, Journal of American Statistical Association*
- “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 Kaïdo
- “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 Kaïdo 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 Haeyoon 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

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

Aug 2025	World Congress of Econometric Society, Seoul (planned)
Jun 2025	IAAE Annual Conference, Turin (planned); 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
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
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**

2023–2025	Member of Program Committee, IAAE
2021–2024	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

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

### **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

Last updated: June 2025