

Contact Information



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Education

Duke University

Bachelor of Arts, 1991. Majors in Economics, Mathematics, and Ccomputer Science.

Stanford Graduate School of Business

Ph.D., 1995

Dissertation: "Comparative Statics in Stochastic Problems with Applications."

Position

Stanford University Graduate School of Business

- · 2014-present The Economics of Technology Professor
- · 2013–2014 Professor of Economics

National Bureau of Economic Research

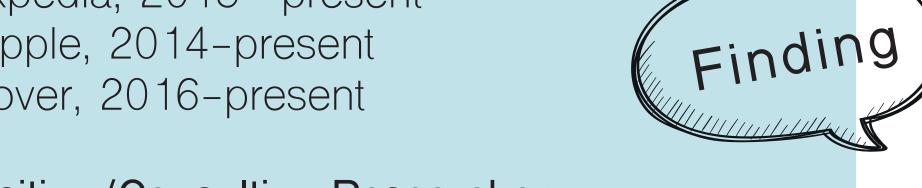
- · Research Associate, 2001-present
- Co-organizer of Productivity and Information Technology/Digitization
- Founding co-director of Market Design Working Group, 2008–2014

Director

Stanford Initiative on Shared Prosperity and Innovation, 2018-present

Boards of Directors

Lending Club, 2018-present Expedia, 2015- present Ripple, 2014-present Rover, 2016-present



Visiting/Consulting Researcher Microsoft Research, New England, 2008-present

Consultant

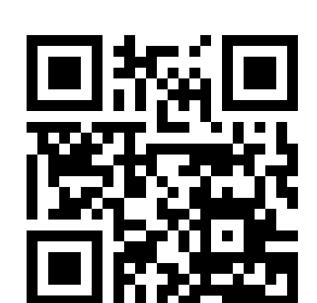
Microsoft Corporation, 2007–2016

Research Interest

Industrial organisation $\star\star\star\star\star$ Game theory-dynamic games **** Technology and machine learning ★★★★ Monotone comparative statics **** Math-based currency *** Internet search ***



Poster Audio



Website



Susan's Personal Website



Ascendare Lai Hoi Ching Liu Tsz Ki Siu Wun Chi

Susan C. Athey

The common theme of Susan's works is in "applied" and "fundamental" research. While the majority of academic economists work between the middle of these two fields of research, Susan worked on both extremes which makes her become special among the economist.

Stunning Facts



John Bates Clark Award





Susan was the first female winner of the John Bates Clark Award, which awarded annually in April since 1947 by American Economics Association. This award aimed to award an American economist under the age of forty who has a great contribution to economic thought and knowledge. As long as the economist is working in the US, having US citizenship is not necessary for them to be eligible for the award.

Susan Athey is an applied theorist who has made important contributions to economic theory, empirical economics, and econometrics. She has built a research program strongly focused on using theory to understand substantive economic issues, especially in Industrial Organization. She has developed tools and techniques that provide the basis for empirical work strongly grounded in sound economic theory. She has made particularly important advances in developing and applying tools that replace strong functional form assumptions in models with more plausible conditions such as monotonicity, thereby facilitating the development of more robust empirical results.



Timber Auction



selected tract of timber and estimate the quantity of each species



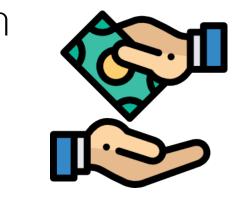




remove timber

1. measure the amount of timber removed















US Forest Service

She co-worked with Jonathan Levin in 2001 to examine the bidders' behaviours and the timber bidding market in U.S.. Susan and Jonathan make use of the econometrics to model the value of forest in the view point of bidders and compare with different auction method.

	Wood Type A	Wood Type B	Bid	Average Bid	Expected Payment
US Forest Service Estimate	50%	50%	(\$100, \$100)	\$100	\$100
Firm Estimate	60%	40%	(\$50, \$150)	\$100	\$90
Firm Estimate	65%	35%	(\$50, \$150)	\$100	\$85

- 1. The number of bidders entered into the market is more important than bidding methodology.
- 2. Since that every bidder have their private information, every one of them has different estimation towards the value of the forest. The U.S. Forest Service tend to underestimate the value of the forest. Taking advantages of private information, the bidders make a higher profit from the bid.

Tech Economist







Search advertising auctions Microsoft

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Susan is currently focusing her research on the economics of digitization, marketplace design, and the intersection of econometrics and machine learning. On top of that, as the director of Microsoft Research, Susan conducts research on online-service data, for example, the effect of the news aggregators on local news consumption, the effect of currency fluctuations on advertising revenues and also some empirical health care economic projects.

Search Advertising: The Design and Its Effectiveness...

... In particular, Susan helps Microsoft to design search advertising auctions, which refers to the auctions for the ad location that usually found in right-hand margin on the webpage. Traditionally, the advertiser who paid the highest price can get the top position of the webpage so as to attract more attention from consumers by gaining more clicks. However, this traditional market design is ineffective in maximizing welfare since irrelevant ads are misleading to consumers.

Learn How to Improve the Use of Search Advertisement...

By analysing the advertiser-bidding behaviour as well as the consumer-clicking behaviour, Susan discovered that there will be an enhancement of the overall welfare for the search engine provider, advertiser and consumer if the search engine shows less but relevant ads to the consumers. Since the quality of ads is improved, they increase the customer's efficiency in finding their desired information and make consumption more easily. Therefore, showing more relevant and high-quality ads would lift the advertiser's revenue as more targeted consumer know their products or services. This new market design for search advertising contribute not only to Microsoft but also to other internet search engines (i.e. Bing, Yahoo or Google).