

## 國立清華大學第 23 屆新進人員研究獎得獎人簡介

楊睿中老師，2014 年畢業於德州農工大學經濟學系；2014 – 2017 年間於南加州大學 USC Dornsife and the Institute for New Economic Thinking (INET) 從事博士後研究工作；2017 年至今於本校經濟學系擔任助理教授。

楊睿中的主要研究領域為計量經濟學。近年主要研究的課題既包括較傳統的計量方法，尤其是非參數方法、時間序列、以及方法面板數據的分析；也涵蓋了新的機器學習方法，尤其是雙重機器學習方法在統計推論方面的應用。在一篇研究中，楊睿中和合作者發現，比起其他的演算法，**gradient boosting** 更適合用來透過雙重機器學習做統計推論。楊睿中的另一個研究領域是環境經濟學。主要的課題是氣候變遷對全球經濟成長的衝擊。最最近的一篇研究中，楊睿中和合作者發現，如果全球溫室氣體排放沿著目前的路徑繼續增加，全球氣溫將在本世紀末上升 4°C，並可能對全球經濟造成 7% 的衝擊。楊睿中的研究刊登在 *Journal of Econometrics*、*Journal of Applied Econometrics*、*Econometric Reviews*、以及 *Scandinavian Journal of Statistics* 等期刊，並曾蒙 *Bloomberg* 等國際媒體介紹。

來到清華大學這幾年間，楊睿中最感到驕傲的，就是每年帶著超過百位的大學生及研究生體會統計和計量方法之美，並實際指導了好幾個學生的研究。其中至少有兩位同學已經立定志向要繼續攻讀博士學位，向更高深的研究邁進。

Jui-Chung Yang received his PhD in Economics from Texas A&M University in 2014. In 2014 – 2017, Dr. Yang had been working at the USC Dornsife and the Institute for New Economic Thinking (INET) at University of Southern California as a postdoctoral research fellow. Since 2017, Dr. Yang has been working at the Department of Economics in National Tsing Hua University as an assistant professor.

The main research field of Dr. Yang is the econometrics. In recent years, Dr. Yang has been working on both the classical econometric methods, including nonparametric econometrics, time series, and panel data analysis, and the state-of-the-art methods using machine learning, especially the double / debiased machine learning approach on statistical inference. In a research, Dr. Yang and his coauthors found that, when applying the double /debiased machine learning for the statistical inference, among many different machine learning algorithms, the gradient boosting is to be preferred. Another field Dr. Yang has been working on is the environmental economics, especially on the impact of the climate change on the global economic growth. In a recent work, Dr. Yang and coauthors found that if the

If greenhouse gas emissions continued to grow along their current trajectory, the global temperature may rise for 4 more degrees Celsius by 2100, and about 7 percent of global GDP would be lost. Works of Dr. Yang have been published in *Journal of Econometrics*, *Journal of Applied Econometrics*, *Econometric Reviews*, and *Scandinavian Journal of Statistics*, and have been covered by the media, such as *Bloomberg*.

Dr. Yang is proud that, in these years at Tsing Hua, he has been teaching hundreds of students about statistics and econometrics, and has been the advisor for several outstanding students. Among these students, there are at least two students who are going to pursue their career in academic research.