

# Shoucheng Zhang

## Work Address

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## Research Interest

Theoretical condensed matter physics, including quantum spin Hall effect, topological insulators and superconductors, quantum spintronics, cuprate and pnictide superconductors, superfluidity and magnetism.

## Experience

ITP Santa Barbara Santa Barbara, CA  
1987–1989

Postdoctoral Research fellow at ITP UCSB.

IBM Almaden Research Center San Jose, CA  
1989–1993

Research Staff Member of IBM Research Division.

Stanford University Stanford, CA  
1993–2010

Professor of Physics.

Stanford University Stanford, CA  
1993–present

Professor of Applied Physics, by courtesy.

Stanford University Stanford, CA  
2004–present

Professor of Electrical Engineering, by courtesy.

Stanford University Stanford, CA  
2004–present

Co-director of the IBM Stanford center for spintronics.

Stanford University Stanford, CA  
2010–present

JG Jackson and CJ Wood Professor of Physics.

## Education

Free University of Berlin Berlin, GERMANY  
Diplom in Physics, June 1983.

SUNY at Stony Brook Stony Brook, New York  
Ph.D. in Physics, June 1987.

<b>Honors</b>	Outstanding Young Researcher Award Awarded by the Oversea Chinese Physicist Association, selection committee members are Paul Chu, Steven Chu, Patrick Lee, T.D. Lee and C.N. Yang.	1992
	Outstanding Innovation Award Awarded by the IBM Research Division.	1993
	Fellow of the American Physical Society Awarded by the American Physical Society.	2006
	Guggenheim Fellow Awarded by the John Simon Guggenheim Memorial Foundation.	2007
	Science Top 10 Our work on the quantum spin Hall effect was recognized by Science Magazine as one of the top 10 breakthroughs among all scientific fields in 2007.	2007
	Humboldt Research Prize Awarded by the Alexander von Humboldt Foundation of Germany.	2009
	Gutenberg Research Award Awarded by the University of Mainz, Germany.	2010
	Europhysics Prize Awarded by the European Physical Society.	2010
	Outstanding Scientist Awarded by the Qiu-Shi Foundation and Chinese Association of Science.	2011
	Election to the AAAS Member of the American Academy of Arts and Sciences.	2011
	Oliver Buckley Prize Awarded by the American Physical Society.	2012
	Dirac Medal and Prize Awarded by the International Center for Theoretical Physics.	2012
	Physics Frontier Prize Awarded by the Fundamental Physics Prize Foundation.	2012
	Election to the CAS Foreign Member of the Chinese Academy of Science.	2013
	Citation Laureate Awarded by Thompson-Reuters.	2014
	Benjamin Franklin Medal Awarded by the Franklin Institute.	2015
	Election to the NAS Member of the National Academy of Science.	2015

**Publications** 220 papers published in refereed journals. 12 in Science, 12 in Nature and affiliated journals, 65 in the Physical Review Letters and two in the Review of Modern Physics. H-index=68.

**Conferences** Invited talks at 240 international conferences, workshops and colloquia, including the prestigious Nobel symposium, Einstein, Bohr and Ehrenfest colloquia, and plenary talks at some of the most prestigious international conferences.

**Mentoring** Ph. D. students and postdocs under my thesis supervision have become faculty members at the distinguished universities, including Xiaoliang Qi and Sri Raghu at Stanford, Eugene Demler at Harvard, Andrei Bernevig at Princeton, Congjun Wu at UCSD, Jiangping Hu at Purdue, Leonid Pryadko at UC Riverside, Taylor Hughes at UIUC, Joseph Maciejko at the University of Alberta and Yaroslav Bazaliy at the University of South Carolina.