



Jicheng Gu

Seismologist / Physicist

Contact

Address

139 Washington Street, Medford,
MA, 02155, USA

Email

gujicheng@earthquakepredict.org

Telephone

+1 617 497 1108

Profile

- Mainly focus on seismology (theoretical study, site observation, laboratory experiment). The earliest scientist who introduced fracture mechanics which was rooted and developed from metal sciences into seismology to study the physics of earthquake source and the earthquake rupture process in the world.
- Worked on geomagnetism, gravity, and geophysical prospecting. fracture mechanics, stability theory of non-linear physical process (friction constitution law, chaos and bifurcation), laser fiber communication (Prof at the Wuhan Institute of Post & Telecommunications) and fuzzy mathematics (Visiting Prof. at Guangzhou University).

Work Experience

The Institute of Geophysics, Chinese Academy of Sciences, Beijing, China

Senior Research Fellow / 1966

Division of Engineering, Brown University

Visitor Scholar with Prof. J.R. Rice in 1980-1981

Division of Applied Sciences, Harvard University

Research Scientist working with Prof. J.R. Rice / 1981-1984

Dept. of EAPS, Massachusetts Institute of Technology (MIT)

Research Scientist working with Prof. K. Aki / 1983-1984

The Institute of Geophysics, Chinese Academy of Sciences, Beijing, China

Senior Research Fellow / 1984

High-Tech O&E Corp (USA)

CTO / 1991

GU Institute of Earthquake Prediction

Chief Scientist / 2020

Education

Dept. of Physics /Geophysics , Peking University. Beijing, China

Study Monitor / 1960-1966

Academic Experience

Teaching graduate courses “Fracture Mechanics and Physics of Earthquake Source” and “Laser Fiber Communication” at The Graduate School of Science Academia Sinica, and of the University of Science & Technology of China in 1986.

The special invited expert and committee member of the 8th Five - Years Science Plan in Seismology, P.R. China.

Special Expert granted by Dept. of Human Resource of P. R. China in 1985-1989.

Some of scientific papers won National Award.

- *Professor in laser fiber communication at Research Institute of Post & Telecommunications, Wuhan China.*
- *Associate Professor in the Institute of Geophysics, Chinese Academy of Sciences, and State Seismological Bureau, Beijing China.*
- *AGU member (America Geophysical Union)*

During past decades, invited for seminars in hundreds of institutes all over the world, for instance:

- *Paris University, Institute of Strasberg in France 1986*
- *Bohn University & Frankfurt University*
- *Science Academy of Czechoslovakia in Prague*
- *Hong Kong Chinese University (Dept of Physics)*

Typical Selected Publications

1. Gu Jicheng (2019)
On Seismic Precursory Waves, Presented at GU Institute of Earthquake Prediction, to be published
2. Gu Jicheng (1994)
Waiting Time Method (WT Method) for Prediction of Earthquake Type and of Strong Aftershocks , AGU Annual Meeting in 1994 Spring Meeting May 23-27, Baltimore, Maryland, USA , Published as a supplement to EOS , April 19,1994. S518-10
3. Gu Jicheng (1987)
Applications of the method of discriminating earthquake type and of prediction of Strong after-shocks, EARTHQUAKE, No,6. pp.1-9,1987
4. Gu Jicheng and K. Aki (1986)
Friction resistance of fault slip. Geophysical Research of China Vol. 2, pp.1-28.
5. Gu Jicheng (1986)
Friction constitutive law with rate and state dependencies. Pure & Applied Geophysics vol.124, Nos 4/5, pp.27-46, 1986.
6. Gu Jicheng (1984/5)
Frictional Resistance of accelerating slip, Pure & Applied Geophysics, Vol.122, pp.62-79.
7. Gu Jicheng, J. Rice, A. Runia and S. Tse (1984)
Earthquake aftereffects and triggered seismic phenomena PAGEOPH Vol.121, No.2, pp.187-219.
8. Gu Jicheng and Li Shuang (1983)
A far-field radiation theory of circular dislocation expanding with uniformly varying velocity, part (2). Acta Geophysica Sinica, Vol.26, pp.17-30.
9. Gu Jicheng and Li Shuang (1982)
A far-field radiation theory of circular dislocation expanding with uniformly varying velocity, part (1). Acta Geophysica Sinica, Vol.25, pp.20-34.
10. Gu Jicheng (1980)
A physical explanation of imminent precursors; the model of crack stable propagating and fluids squeezing up. Northwestern Seismological Journal, Supplement, pp.1-9

40 more publications are available. Please feel free to contact us, or refer

- Official Website of GU Institute of Earthquake Prediction:
www.earthquakepredict.org
- Detail Resume of Prof. Gu Jicheng & the Publications:
<http://www.earthquakepredict.org/bio-of-prof-jicheng-gu/>