

# Stanford PROFILES



## Jack Baker

ASSOCIATE PROFESSOR OF CIVIL AND ENVIRONMENTAL ENGINEERING

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## Bio

Jack Baker's research focuses on the use of probabilistic and statistical tools for modeling of extreme loads on structures. He has investigated probabilistic modeling of seismic hazards, improved characterization of earthquake ground motions, dynamic analysis of structures, prediction of the spatial extent of soil failures from earthquakes, and tools for modeling loads on spatially distributed infrastructure systems. Dr. Baker joined Stanford from the Swiss Federal Institute of Technology (ETH Zurich), where he was a visiting researcher in the Department of Structural Engineering. He received his Ph.D. in Structural Engineering from Stanford University, where he also earned M.S. degrees in Statistics and Structural Engineering. He has industry experience in seismic hazard assessment, ground motion selection, construction management, and modeling of catastrophe losses for insurance companies.

## Academic Appointments

Associate Professor, Civil and Environmental Engineering  
Affiliate, Precourt Institute for Energy

## Honors & Awards

Career Award, National Science Foundation (2010)  
Shah Family Innovation Prize, Earthquake Engineering Research Institute (2010)  
Outstanding Paper Award, Earthquake Engineering Research Institute (2011)  
Early Achievement Research Award, International Association for Structural Safety and Reliability (IASSAR) (2013)  
Eugene L. Grant Award, Stanford University (2013)  
Walter L. Huber Civil Engineering Research Prize, American Society of Civil Engineering (ASCE) (2018)

## Professional Education

PhD, Stanford (2005)

## CONTACT

 **Academic**

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