

## GÖRAN EKSTRÖM

### **Education:**

Harvard University, Department of Earth and Planetary Sciences: Ph.D. (geophysics), 1987

Moscow State University, USSR: Exchange researcher, 1981-1982

Swarthmore College, Pennsylvania: B.A. (physics) with high honors, 1981

### **Professional Experience:**

Columbia University, Department of Earth and Environmental Sciences

Professor of Earth Sciences, 2006–

Harvard University, Department of Earth and Planetary Sciences

Professor of Geology and Geophysics, 1995–2006; John L. Loeb Associate Professor of the Natural Sciences, 1994–1995; Assistant Professor of Geophysics, 1990–1994

Istituto Nazionale di Geofisica e Vulcanologia, Italy

Visiting Scientist, March 2005, September–December 1997

USGS National Earthquake Information Center, Boulder CO

Senior Scientist in Residence, April 2004

Institut de Physique du Globe de Paris

Visiting Professor, March–May 1998; CNRS Visiting Research Scientist, April 1989–September 1989

Lamont-Doherty Geological Observatory of Columbia University

Associate Research Scientist, 1988–1990; Lamont-Doherty Postdoctoral Fellow, October 1987–1988

### **Recent Service to the Earth Science Community:**

USGS Scientific Earthquake Studies Advisory Committee, 2016–

ISC (International Seismological Centre), Governing Council, 2015–

ISC Executive Committee, 2015–, chair 2019–

FDSN (International Federation of Digital Seismograph Networks), chair, 2013–2017

EPOS (European Plate Observing System), Advisory Board, 2010–

Earth Observatory of Singapore, Scientific Advisory Board, 2009–

GEOSCOPE (France) Scientific Committee, 2008–

EarthScope Steering Committee, chair, 2008–2011

European Commission Expert Scientific Reviewer, NERIES Project, 2008

Seismological Society of America, Richter Award Subcommittee, chair, 2009–2011

National Earthquake Prediction Evaluation Council, 2006–2009

Incorporated Research Institutions for Seismology

Executive Committee, chair, 2002–2004; vice chair, 1999–2001; member, 1993–1995; Planning Committee, 2002–2007; Global Seismic Network Standing Committee, chair, 1995–1998; Joint Seismic Program Committee, 1991–1996 (chair, 1994–1996); Data Management System Standing Committee, 1991–1993

USArray EarthScope Advisory Committee, 2007–2008

EarthScope Facilities Executive Committee, 2002–2004

EarthScope Working Group, 2001–2002

Gordon Conference on Earth's Interior, 2003–2007 (chair, 2006–2007)

### **Honors:**

Member, National Academy of Sciences, 2019

Gutenberg Medal, European Geosciences Union, 2015

AGU Fellow, 1999

Phi Beta Kappa, 1981

## Publications

- \*Ekström, G., Centroid-moment tensor solution for the April 24, 1984 Morgan Hill, California, earthquake, *CDMG Special Publication 68, The 1984 Morgan Hill, California earthquake*, 209-213, 1985.
- Ekström, G., and A. M. Dziewonski, Centroid-moment tensor solutions for 35 earthquakes in Western North America (1977-1983), *Bull. Seism. Soc. Am.*, 75, 23-39, 1985.
- Ekström, G., and A. M. Dziewonski, A very broad band analysis of the Michoacan, Mexico, earthquake of September 19, 1985, *Geophys. Res. Lett.*, 13, 605-608, 1986.
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- \*Ekström, G., *A broad band method of earthquake analysis*, Ph. D. Thesis, Harvard University, Cambridge, Massachusetts, 1987.
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- \*Ekström, G., Very broad band earthquake source studies, in *Proceedings of the IV International Conference on Solid Earth Geophysics*, edited by D. Giardini and A. Morelli, Galileo Galilei, Rome, 89-102, 1989.
- Ekström, G., A very broad band inversion method for the recovery of earthquake source parameters, *Tectonophysics*, 166, 73-100, 1989.
- Ekström, G., and P. C. England, Seismic strain rates in regions of distributed continental deformation, *J. Geophys. Res.*, 94, 10,231-10,257, 1989.
- Ekström, G. and E. R. Engdahl, Earthquake source parameters and stress distribution in the Adak Island region of the central Aleutian Islands, *J. Geophys. Res.*, 94, 15,499-15,519, 1989.
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- Dziewonski, A. M., G. Ekström, J. E. Franzen and J. H. Woodhouse, Global seismicity of 1982 and 1983: Additional centroid-moment tensor solutions for 553 earthquakes, *Phys. Earth Planet. Inter.*, 53, 17-45, 1989.
- Ekström, G., and B. Romanowicz, The 23 May 1989 Macquarie Ridge earthquake: a very broad band analysis, *Geophys. Res. Lett.*, 17, 993-996, 1990.
- Virieux, J., and G. Ekström, Ray tracing on a heterogeneous sphere by Lie series, *Geophys. J. Int.*, 104, 11-27, 1990.
- Richards, P. G., D. C. Witte, and G. Ekström, Analytic study of seismic waves in structures with planar non-parallel interfaces, *Bull. Seism. Soc. Am.*, 81, 1309-1331, 1991.
- Ekström, G., R. S. Stein, J. P. Eaton, and D. Eberhart-Phillips, Seismicity and geometry of a 110-km-long blind thrust fault, 1, The 1985 Kettleman Hills earthquake, *J. Geophys. Res.*, 97, 4843-4864, 1992.
- Stein, R. S., and G. Ekström, Seismicity and geometry of a 110-km-long blind thrust fault, 2, Synthesis of the 1982-1985 earthquake sequence, *J. Geophys. Res.*, 97, 4865-4884, 1992.
- \*Richards, P. G., W.-Y. Kim, and G. Ekström, Borovoye Geophysical Observatory, Kazakhstan, *Eos Trans. AGU*, 73, 201, 205-206, 1992.
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- \*Ekström, G., Rapid earthquake analysis at Harvard, *IRIS Newsletter*, vol. XII, No. 1, 4-6, 1993.
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- Ekström, G., and P. G. Richards, Empirical measurements of tectonic moment release in nuclear explosions from teleseismic surface waves and body waves, *Geophys. J. Int.*, 117, 120-140, 1994.
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- Ekström, G., Anomalous earthquakes on volcano ring-fault structures, *Earth Planet. Sci. Lett.*, 128, 707-712, 1994.

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- \*Ekström, G., Rapid earthquake analysis utilizes the Internet, *Computers in Physics*, 8, 632–638, 1994.
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