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EDUCATION:

1985 B. Sc. (Geophysics) California Institute of Technology, Pasadena, California

1988 M. Sc. (Geophysics) University of South Carolina, Columbia, South Carolina

1991 Ph. D. (Geophysics) University of South Carolina, Columbia, South Carolina

PROFESSIONAL EXPERIENCE:

1985-1986 Graduate Student, University of Hawaii, Honolulu, Hawaii

1986-1991 Member of the Technical Staff, Jet Propulsion Laboratory, Pasadena, California

1987-1991 Graduate Student, University of South Carolina, Columbia, South Carolina

1991-1995 Postdoctoral Research Associate, Stanford University, Stanford, California

1995-1999 Assistant Research Professor of Geophysics, Geophysical Institute

1999-2004 Associate Professor of Geophysics, Geophysical Institute and Department of Geological Sciences, University of Alaska Fairbanks

2004-2018 Professor of Geophysics, Geophysical Institute and Department of Geological Sciences, University of Alaska Fairbanks

2018-present Endowed Chair for Geology of the Solid Earth, Dept. of Earth and Environmental Sciences, Michigan State University

2021-2022 Interim Department Chair, Dept. of Earth and Environmental Sciences, Michigan State University

2022-present Department Chair, Dept. of Earth and Environmental Sciences, Michigan State University

SOCIETIES AND FELLOWSHIPS:

American Geophysical Union, 1986-present

Geological Society of America, 1987-present

Seismological Society of America, 1994-present

American Association for the Advancement of Science, 1995-present

Associate of the International Association of Geodesy (IAG), 1993-present

Fellow of the International Association of Geodesy (IAG), 2011-present

Individual Member, International Association of Geodesy (IAG), 2003-present

Individual Member, International Association of Volcanology and Chemistry of the Earth’s Interior (IAVCEI), 2003-present

Institute of Navigation, 2012-present

AWARDS:

NASA Group Achievement Award, Development of OASIS/GIPSY Global Positioning System Analysis Software, 1992

Terris and Katrina Moore Prize for best research paper or accomplishment, Geophysical Institute, University of Alaska Fairbanks, 2000

College of Natural Sciences and Mathematics Award for Outstanding Graduate Student Mentoring and Advising, 2005

Usibelli Award for Distinguished Research, University of Alaska Fairbanks, 2013

Fellow of the American Geophysical Union, 2014, *for using modern space geodetic techniques to elucidate the tectonics of Alaska and Asia.*

AGU Editor’s Citation for Excellence in Refereeing, 2017

Fellow of the AAAS, 2019, *for outstanding contributions to research, teaching, innovation, service to societies and to the public in geodesy, tectonics, volcanology, glaciology, hydrology and geophysics.*

PROFESSIONAL SERVICE:

Member, Steering Committee, University NAVSTAR Consortium (UNAVCO), 1995-1999

Chairman, UNAVCO Steering Committee, 1998-1999

Member, Southern California Integrated GPS Network (SCIGN) Advisory Council, 1998-present; Chair, 1999-2002

Associate Editor, Journal of Geophysical Research – Solid Earth, 1999-2004

Member, Plate Boundary Observatory Steering Committee, 1999-2002

Member, EarthScope Working Group, 1999-2000

Chair, Second Plate Boundary Observatory Workshop Organizing Committee, 2000

Panelist, National Science Foundation, EAR-Geophysics Program, Fall 1999

President-Elect, Geodesy Section of the AGU, 2004-2006

President, Geodesy Section of the AGU, 2006-2008

Panelist, National Science Foundation, EAR-Geophysics Program, 2003-2006

Member, US National Committee for the IUGG, 2003-2011

US National Correspondent to the International Association of Geodesy, 2004-present

Associate Editor, Journal of Geodesy, 2007-2015

Member, organizing committee for the Workshop for an EarthScope Science Plan, 2009

Co-Editor, revised EarthScope Science Plan, 2010

Member, USGS Scientific Earthquake Studies Advisory Committee, 2010-2014

Member, Southern California Earthquake Center (SCEC) Advisory Council, 2002-2010

Chair, Southern California Earthquake Center (SCEC) Advisory Council, 2010-2013

Chair, US National Committee for the IUGG, 2011-2017

Member, EarthScope Steering Committee, 2012-2014

International Chief Editor, Journal of Geodesy and Geodynamics, 2013-2015

Chair, PBO Working Group (UNAVCO), 2013-2015

Chair, Transportable Array Advisory Committee (IRIS), 2014-2015

Member, GeoPRISMS Steering and Oversight Committee, 2014-2016

Official USA Delegate, International Union of Geodesy and Geophysics General Assembly, 2015

Member, UNAVCO Board of Directors, 2015-2017

Chair, UNAVCO Board of Directors, 2017-2018

Director, EarthScope National Office, 2015-2019

Organizer, *Re-examining our Grand Challenges in Geodesy*, Workshop and report, 2018-2019

Member, External Advisory Committee, Institute of Earth Sciences, Academia Sinica, 2011-present

Editor in Chief, International Association of Geodesy Symposia Series, 2015-present

Member, Committee on Solid Earth Geophysics (National Academies), 2019-present

Member, USGS Earthquake Early Warning External Advisory Committee, 2020-present

BOOKS EDITED:

Co-Editor, *Plate Boundary Zones*, AGU Geodynamics Series, Vol 30, 2002 (with Seth Stein)

Editor, *Active Tectonics and Seismic Potential of Alaska*, AGU Geophysical Monograph 179, Jeffrey T. Freymueller, Peter J. Haeussler, Robert L. Wesson, and Göran Ekstrom, eds, American Geophysical Union, Washington, DC, 431pp, 2008.

Power, J. A., M. L. Coombs, and J. T. Freymueller, eds., *The 2006 Eruption of Augustine Volcano, Alaska*, USGS Prof. Paper 1769, Reston, 667pp., 2010.

PUBLICATIONS:

1987 Kellogg, J. N., B. S. Wedgeworth, and J. Freymueller, Isostatic compensation and conduit structures of Western Pacific seamounts: Results of three-dimensional gravity modeling, in Seamounts, Islands, and Atolls, edited by B. H. Keating, P. Fryer, R. Batiza, and G. W. Boehlert, Am. Geophys. Union, *Geophysical Monograph Series, 43,* 85-96.

Davidson, J. M., C. L. Thornton, S. A. Stephens. G. Blewitt, S. M. Lichten, O. J. Sovers, P. M. Kroger, L. L. Skrumeda, J. S. Border, R. E. Neilan, C. J. Vegos, B. G. Williams, J. T. Freymueller, T. H. Dixon, W. G. Melbourne, The Spring 1985 High Precision Baseline Test of the JPL GPS-based geodetic system: A final report, Jet Propulsion Laboratory Publication 87-35, 67pp.

1988 Freymueller, J. T., and M. P. Golombek, Geometry and Treatment of Fiducial Networks: Effect on GPS Baseline Precision in South America, *Geophys. Res. Letts.*, *15*, 1467-1469.

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1990 Freymueller, J. T. and J. N. Kellogg, The extended tracking network and indications of baseline precision and accuracy in the North Andes, CASA UNO Special Issue, *Geophysical Research Letters, 17,* 207-210.

Kellogg, J. N., J. T. Freymueller, T. H. Dixon, R. E. Neilan, C. Ropaín U., S. Camargo M., B. Fernandez C., J. L. Stowell, A. Salazar, J. Mora. V., L. Espín, V. Perdue, L. Leos, First GPS baseline results from the North Andes, CASA UNO Special Issue, *Geophysical Research Letters, 17,* 211-214.

Kornreich Wolf, S., T. H. Dixon, and J. T. Freymueller, The effect of tracking network configuration on GPS baseline estimates for the CASA UNO experiment, *Geophysical Research Letters, 17,* 647-650.

Freymueller, J. T. and J. N. Kellogg, Comparison of TI-4100 and Trimble 4000SST GPS receivers over short and long baselines, Proceedings of the 2nd International Symposium on Precise Positioning with the Global Positioning System, Ottawa Canada, Sep. 3-7, 1990, pp. 477-491.

1991 Freymueller, J. T., CASA – Central and South America GPS Geodesy: Crustal motions determined from 1988 and 1990 epoch measurements in Colombia, Costa Rica and Ecuador, Ph.D. Thesis, University of South Carolina, Columbia, SC.

1992 Freymueller, J. T., and J. N. Kellogg, Isostasy and tectonic origins of Pacific seamounts, in B. Keating and B. Bolton eds., *Geology and Offshore Mineral Resources of the Central Pacific Basin*, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, *14*, 39-53.

Freymueller, J. T., Comparison of baseline results for the TI-4100 and Trimble 4000SDT geodetic GPS receivers, *Bulletin Géodésique*, *66*, 272-280, 1992.

1993 Freymueller, J. T. and J.N. Kellogg, Plate motions and active crustal deformation in the North Andean region measured with the Global Positioning System, in W. Torge, A. Gonzalez Fletcher, J. G. Tanner (eds.): *Recent Geodetic and Gravimetric Research in Latin America*, 131-145, Springer-Verlag (Berlin and New York), 1993.

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1994 Freymueller, J. T., N. E. King and P. Segall, The co-seismic slip distribution of the Landers earthquake, *Bull . Seism. Soc. Am.*, *84*, 646-659.

Hudnut, K. W., Y. Bock, M. Cline, P. Fang, Y. Feng, J. Freymueller, X. Ge, W. K. Gross, D. Jackson, M. Kim, N. E. King, J. Langbein, S. C. Larsen, M. Lisowski, Z-K. Shen, J. Svarc, and J. Zhang, Coseismic displacements of the 1992 Landers earthquake sequence, *Bull . Seism. Soc. Am.*, *84*, 625-645.

1995 Larson, K. M. and J. Freymueller, Relative motions of the Australian, Pacific and Antarctic plates estimated by the Global Positioning System, *Geophys. Res. Lett.*, *22*, 37-40.

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1996 Freymueller, J., R. Bilham, R. Bürgmann, K. M. Larson, J. Paul, S. Jade, and V. Gaur, Global Positioning System measurements of Indian plate motion and convergence across the Lesser Himalaya, *Geophys. Res. Lett.*, *23*, 3107-3110, 1996.

1997 Bilham, R., Larson, K., Freymueller, J., and Project Idylhim members, GPS measurements of present day convergence rates in the Nepal Himalaya, *Nature*, *336*, 61-64, 1997.

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1999 Larson, K. M., R. Bürgmann, R. Bilham, and J. Freymueller, Kinematics of the India-Eurasia collision zone from GPS measurements, *J. Geophys. Res.*, *104*, 1077-1093, 1999.

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2000 Bendick, R., R. Bilham, J. Freymueller, K. Larson, and G. Yin, Geodetic evidence for a low slip rate in the Altyn Tagh fault and constraints on the deformation of Asia, *Nature*, *404*, 69-72, 2000.

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2001 Fletcher, H. J., J. Beavan, J. Freymueller, and L. Gilbert, High interseismic coupling of the Alaska subduction zone SW of Kodiak island inferred from GPS data, *Geophys. Res. Lett.*, 28, 443-446, 2001.

Cohen, S. C., and J. T. Freymueller, Crustal uplift in the southcentral Alaska subduction zone: A new analysis and interpretation of tide gauge observations, *J. Geophys. Res.*, *106*, 11,259-11,270, 2001.

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Chen, Q., and J. T. Freymueller, Geodetic evidence for a near-fault compliant zone along the San Andreas fault in the San Francisco Bay area, *Bull. Seism. Soc. Am.*, 92, 656-671, 2002.

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Mann, D., and J. Freymueller, Volcanic and tectonic deformation on Unimak Island in the Aleutian Arc, Alaska, *J. Geophys. Res.*, *108*(B2), 2108, doi:10.1029/2002JB001925, 2003.

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2004 Chen, Q., J. Freymueller, Q. Wang, Z. Yang, C. Xu, and J. Liu, A deforming block model for the present-day tectonics of Tibet, *J. Geophys. Res.,*Vol. 109, No. B1, B01403, doi:10.1029/2002JB002151, 2004.

Chen, Q., J. T. Freymueller, Z. Yang, C. Xu, W. Jiang, Q. Wang, and J. Liu, Spatially variable extension in southern Tibet based on GPS measurements, *J. Geophys. Res.,*Vol. 109, No. B9, B09401, 10.1029/2002JB002350.

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Larsen, C. F., R. J. Motyka, J. T. Freymueller, K. A. Echelmeyer and E. R. Ivins, Rapid uplift of southern Alaska caused by recent ice loss, *Geophys. J. Intl.*, 158, 1118-1133, 2004.

2005 Larsen, C. F., R. J. Motyka, J. T. Freymueller, K. A. Echelmeyer, and E. R. Ivins, Rapid viscoelastic uplift in southeast Alaska caused by post-Little Ice Age glacial retreat, *Earth Planet. Sci. Lett.*, 237, 548-560, 2005.

2006 Freed, A. M., R. Bürgmann, E. Calais, J. Freymueller, and S. Hreinsdóttir (2006), Implications of Deformation Following the 2002 Denali, Alaska Earthquake for Postseismic Relaxation Processes and Lithospheric Rheology, J. Geophys. Res., doi:10.1029/2005JB003894.

Williams, T. B., H. M. Kelsey, and J. T. Freymueller, Contemporary GPS-derived strain in northwestern California: termination of the San Andreas fault system and convergence with the Sierra Nevada block contribute to southern Cascadia forearc contraction, *Tectonophysics*, *413*, 171-184, 2006.

Hreinsdóttir, S., J. T. Freymueller, R. Bürgmann, and J. Mitchell, Coseismic Deformation of the 2002 Denali Fault Earthquake: Insights from GPS measurements, J. Geophys. Res., 111, B03308, doi:10.1029/2005JB003676, 2006.

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Cervelli, P., T. Fournier, J. T. Freymueller, and J. Power, Ground Deformation Associated with the Precursory Unrest and Early Phases of the January 2006 Eruption of Augustine Volcano, Alaska, *Geophys. Res. Lett.*, *33*, L18304, doi:10.1029/2006GL027219, 2006.

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2007 Rajendran, C.P., K. Rajendran, A. Earnest, R. Anu, T. Machado, and J. Freymueller, The style of crustal deformation and seismic history associated with the 2004 Indian Ocean earthquake: A perspective from the Andaman-Nicobar Islands, Bull. Seism. Soc. Am., **97**, no. 1A, S174-S191, 2007.

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Elliott, J., J. T. Freymueller, and B. Rabus (2007), Coseismic deformation of the 2002 Denali Fault Earthquake: Contributions from SAR range offsets, *J. Geophys. Res.*, 112, B06421, doi:10.1029/2006JB004428.

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