

CURRENT POSITION:

Professor and Chair, Department of Geophysics
Professor, Department of Electrical Engineering
Mitchell 305
397 Panama Mall
Stanford University
Stanford, CA 94305-2215

TEL: (650) 723-8067
FAX: (650) 725-7344
Email: zebker@stanford.edu

EDUCATION:

Ph.D., Electrical Engineering, Stanford University, 1984.
Major Subjects: Radiowave Scattering Theory, Digital Signal Processing
Thesis Title: *Analysis and Interpretation of the Voyager 1 Radio Occultation
Measurements of Saturn's Rings with Emphasis on Particle Size Distribution*

M.S., Engineering, University of California at Los Angeles, 1979.
Major Subjects: Information Theory and Coding, Detection, Estimation
Comprehensive Exam Title: A Numerical Method for Evaluating Steady State
Probability Distributions

B.S., Engineering and Applied Science, California Institute of Technology, 1976.
Major Subjects: Circuit Design, Applied Mathematics, Computer Science

POSITIONS HELD:

2014-present:

Professor and Chair, Department of Geophysics
Professor, Department of Electrical Engineering
Associate Chair, Admissions, Dept. of Electrical Engineering
Stanford University
Stanford, CA

2006-2013:

Professor
Associate Chair, Admissions, Dept. of Electrical Engineering
Departments of Geophysics and Electrical Engineering (joint appt.)
Stanford University
Stanford, CA

1995-2006:

Associate Professor
Departments of Geophysics and Electrical Engineering (joint appt.)
Stanford University
Stanford, CA

1984-1995:

Assistant Manager
Radar Science and Engineering Section
Jet Propulsion Laboratory, Radar Science and Engineering Section

1984:

Post-doctoral Research Affiliate, Stanford University, Stanford CA 94306

1976-1980:

Jet Propulsion Laboratory, Radar Science and Engineering Section

1975-1976: Jet Propulsion Laboratory, Physics Section

RESEARCH INTERESTS:

Earth crustal deformation, measurements and subsurface processes, planetary exploration, interferometric radar remote sensing techniques and applications, EM propagation and scattering, digital signal processing, imaging science.

COURSES TAUGHT:

Stanford University courses:

Autumn 2018: GP385Z Radar Remote Sensing Seminar
Autumn 2018: GP201 Frontiers in Geophysics
Autumn 2018: EE60N Man vs. Nature: Coping with Disaster Using Space Technology

Autumn 2017: GP385Z Radar Remote Sensing Seminar
Autumn 2017: GP201 Frontiers in Geophysics
Autumn 2017: EE60N Man vs. Nature: Coping with Disaster Using Space Technology
Winter 2018: EE168 Introduction to Digital Image Processing
Winter 2018: EE355 Imaging Radar and Applications
Winter 2018: GP385Z Radar Remote Sensing Seminar
Spring 2018: GP385Z Radar Remote Sensing Seminar

Autumn 2016: GP385Z Radar Remote Sensing Seminar
Autumn 2016: GP201 Frontiers in Geophysics
Autumn 2016: EE60N Man vs. Nature: Coping with Disaster Using Space Technology
Winter 2017: GP385Z Radar Remote Sensing Seminar
Spring 2017: GP385Z Radar Remote Sensing Seminar

Autumn 2015: GP385Z Radar Remote Sensing Seminar
Autumn 2015: GP201 Frontiers in Geophysics
Autumn 2015: EE60N Man vs. Nature: Coping with Disaster Using Space Technology
Winter 2016: EE168 Introduction to Digital Image Processing
Winter 2016: EE355 Imaging Radar and Applications
Winter 2016: GP385Z Radar Remote Sensing Seminar
Spring 2016: GP385Z Radar Remote Sensing Seminar

Autumn 2014: GP385Z Radar Remote Sensing Seminar
Autumn 2014: GP201 Frontiers in Geophysics

Autumn 2014: EE60N Man vs. Nature: Coping with Disaster Using Space Technology

Winter 2015: EE168 Introduction to Digital Image Processing

Winter 2015: EE262 Two Dimensional Imaging

Winter 2015: GP385Z Radar Remote Sensing Seminar

Spring 2015: GP385Z Radar Remote Sensing Seminar

Autumn 2013: GP385Z Radar Remote Sensing Seminar

Autumn 2013: GP201 Frontiers in Geophysics

Winter 2014: EE168 Introduction to Digital Image Processing

Winter 2014: EE355 Imaging Radar and Applications

Winter 2014: GP385Z Radar Remote Sensing Seminar

Spring 2014: GP385Z Radar Remote Sensing Seminar

Autumn 2012: GP385Z Radar Remote Sensing Seminar

Autumn 2012: EE60N Man vs. Nature: Coping with Disaster Using Space Technology

Winter 2013: EE257 Applied Optimization Laboratory

Winter 2013: EE262 Two Dimensional Imaging

Winter 2013: GP385Z Radar Remote Sensing Seminar

Spring 2013: GP385Z Radar Remote Sensing Seminar

Autumn 2011: GP385Z Radar Remote Sensing Seminar

Winter 2012: EE60N Man vs. Nature: Coping with Disaster Using Space Technology

Winter 2012: EE168 Introduction to Digital Image Processing

Winter 2012: GP385Z Radar Remote Sensing Seminar

Spring 2012: GP385Z Radar Remote Sensing Seminar

Autumn 2010: EE60N Man vs. Nature: Coping With Disaster Using Space Technology

Autumn 2010: GP385Z Radar Remote Sensing Seminar

Winter 2011: EE257 Scientific Data Processing

Winter 2011: EE355 Imaging Radar and Applications

Winter 2011: GP385Z Radar Remote Sensing Seminar

Spring 2011: GP385Z Radar Remote Sensing Seminar

Winter 2010: EE60N Man vs. Nature: Coping with Disaster Using Space Technology

Winter 2010: EE262 Two Dimensional Imaging

Winter 2010: GP385Z Radar Remote Sensing Seminar

Spring 2010: GP385Z Radar Remote Sensing Seminar

Autumn 2008: EE60N Man vs. Nature: Coping with Disaster Using Space technology

Autumn 2008: GP385Z Radar Remote Sensing Seminar

Winter 2009: EE168 Introduction to Digital Image Processing

Winter 2009: EE355 Imaging Radar and Applications

Winter 2009: GP385Z Radar Remote Sensing Seminar

Spring 2009: GP385Z Radar Remote Sensing Seminar

Autumn 2007: GP 385Z Radar Remote Sensing Seminar

Winter 2008: EE 140 The Earth from Space: An Introduction to Remote Sensing

Winter 2008: EE 262 Two Dimensional Imaging

Winter 2007: GP 385Z Radar Remote Sensing Seminar
Spring 2008: GP 385Z Radar Remote Sensing Seminar

Fall 2006: GP/EE 140 The Earth from Space: An introduction to remote sensing
Fall 2006: EE/GP 60Q Man vs. Nature: Coping with Disaster Using Space
Technology
Fall 2006: GP 385Z Radar Remote Sensing Seminar
Winter 2007: EE 168 Introduction to Digital Image Processing
Winter 2007: EE 355 Imaging Radar and Applications
Winter 2007: GP 385Z Radar Remote Sensing Seminar
Spring 2007: GP185/385Z Radar Remote Sensing Seminar

Fall 2005: GP/EE 140 The Earth from Space: An introduction to remote sensing
Fall 2005: EE/GP 60Q Man vs. Nature: Coping with Disaster Using Space
Technology
Fall 2005: GP 385Z Radar Remote Sensing Seminar
Winter 2006: EE 168 Introduction to Digital Image Processing
Winter 2006: EE254 Radar Principles
Winter 2006: GP 385Z Radar Remote Sensing Seminar
Spring 2006: GP185/385Z Radar Remote Sensing Seminar

Fall 2004: GP/EE 140 The Earth from Space: An introduction to remote sensing
Fall 2004: EE/GP 60Q Man vs. Nature: Coping with Disaster Using Space
Technology
Fall 2004: GP 385Z Radar Remote Sensing Seminar
Winter 2005: EE 168 Introduction to Digital Image Processing
Winter 2005: GP 385Z Radar Remote Sensing Seminar
Spring 2005: EE 262 Two-dimensional Imaging
Spring 2005: GP185/385Z Radar Remote Sensing Seminar

Fall 2003: EE254 Radar Principles
Fall 2003: EE60Q/GP60Q: Remote Sensing of the Environment
Fall 2003: EE350 Radioscience Seminar
Fall 2003: GP385Z Radar Remote Sensing Seminar
Winter 2004: EE168 Introduction to Digital Image Processing
Winter 2004: GP385Z Radar Remote Sensing Seminar
Spring 2004: EE355/GP265 Imaging Radar and Applications
Spring 2004: GP385Z Radar Remote Sensing Seminar

Fall 2002: EE262 Two-dimensional Imaging
Fall 2002: EE/GP60Q Man vs. Nature: Coping with Disaster Using Space Technology
Fall 2002: GP 385Z Radar Remote Sensing Seminar
Winter 2003: EE168 Introduction to Digital Image Processing
Winter 2003: GP385Z Radar Remote Sensing Seminar
Spring 2003: EE140/ GP40 The Earth from Space: An introduction to remote sensing
Spring 2003: GP385Z Radar Remote Sensing Seminar

Fall 2001: EE168 Introduction to Digital Image Processing
Fall 2001: EE/GP60Q Man vs. Nature: Coping with Disaster Using Space Technology
Fall 2001: EE 350 Radioscience Seminar
Fall 2001: GP 385Z Radar Remote Sensing Seminar
Winter 2002: EE254 Radar Principles
Winter 2002: GP385Z Radar Remote Sensing Seminar
Spring 2002: EE255/ GP265 Imaging Radar and Applications
Spring 2002: GP385Z Radar Remote Sensing Seminar

Fall 2000: EE262 Two-dimensional Imaging
Fall 2000: GP60/EE60 Viewing Hazards on Earth from Space
Winter 2001: EE168 Introduction to Digital Image Processing
Winter 2001: SME5 (GP7) The Water Course
Spring 2001: GP40 The Earth from Space: An introduction to remote sensing

Fall 1999: EE262 Two-dimensional Imaging
Fall 1999: EE350 Radioscience Seminar
Winter 2000: EE254 Radar Principles
Winter 2000: GP60/EE60 Viewing Hazards on Earth from Space
Spring 2000: GP40 The Earth from Space: An introduction to remote sensing

Fall 1998: EE262 Two-dimensional Imaging
Winter 1999: EE355 Imaging Radar and Applications
Winter 1999: GP60/EE60 Viewing Hazards on Earth from Space
Spring 1999: GP40 The Earth from Space: An introduction to remote sensing

Fall 1997: EE262 Two-dimensional Imaging
Fall 1997: EE350 Radioscience Seminar
Winter 1998: GP60/EE60 Viewing Hazards on Earth from Space
Winter 1998: EE254 Radar Principles
Spring 1998: GP40 The Earth from Space: An introduction to remote sensing

Fall 1996: EE262 Two-dimensional Imaging
Winter 1997: EE355 / GP355 Imaging Radar and Applications
Spring 1997: GP40 The Earth from Space: An introduction to remote sensing

Fall 1995: EE350 Radioscience Seminar
Winter 1996: EE254 Radar Principles
Spring 1996: GP40 The Earth from Space: An introduction to remote sensing

Other Stanford teaching:

Stanford Summer Engineering Academy (SSEA) faculty, 1999.
Stanford Mathematical Geosciences Summer School faculty, 2000.

Teaching while at JPL:

Instructor for internal JPL short courses on synthetic aperture radar design and applications
Organizer, JPL Radar Program Seminar Series
Guest lecturer, Caltech "Introduction to the Physics of Remote Sensing"

AWARDS AND HONORS:

Fellow, Institute of Electronic and Electrical Engineers (IEEE), 1999.
Fellow, American Geophysical Union (AGU), 2016.
Fellow, The Electromagnetics Academy, 2000.
Best Paper Award, IEEE Geoscience and Remote Sensing Letters, 2018.
Best paper award, International Geoscience and Remote Sensing Symposium, 1995.
Best paper award, IEEE Geoscience and Remote Sensing Society, 1988.
NASA Technical Brief Achievement Award, Airborne Radar Interferometric Repeat Pass Processing
NASA Certificate of Recognition: development of differential radar interferometry, 2007.
Best reviewer award, IEEE Transactions on Geoscience and Remote Sensing, 1999.
Robert Noyce Faculty Scholar, Stanford University School of Engineering, 1999.
Affiliate member, American Astronomical Society - Division for Planetary Sciences
Dana Adams Griffin Award, School of Engineering, Stanford University, 1998.
Jet Propulsion Laboratory Director's Research Achievement Award, 1988.

NASA Certificates of Achievement for New Technology: Imaging radar polarimeter, Topographic mapping from interferometric synthetic aperture radar measurements, Interferometric radar measurement of ocean surface currents, Synthetic aperture radar processor for large drift angles, Data volume reduction for imaging radar polarimetry, Imaging radar polarimeter measures orientation of calibration corner reflectors, Preliminary simultaneous L/C-band images from the JPL aircraft synthetic aperture radar, Radar imaging polarimetry, Phase calibration of imaging radar polarimeter Stokes matrices, Mapping small elevation changes over large areas: differential radar interferometry, Approaches to modelling polarization characteristics of surfaces for radar polarimetry, Software for polarimetric radar analysis: MacMultiview 5.0, Calibration of Stokes and scattering matrix format polarimetric SAR data, Topographic mapping using radar interferometry: processing techniques, Decorrelation in interferometric radar echoes, The TOPSAR interferometric radar topographic mapping instrument (1984-1995)

NASA Group Achievement Awards: Seasat-A Synthetic Aperture Radar Team, 1979; Shuttle Imaging Radar (SIR-A) Development Team, 1982; Airborne Imaging Radar System Team, 1990.

PATENTS (US):

No. 4,975,704: Andrew K. Gabriel, Richard M. Goldstein, and Howard A. Zebker, "Method for Detecting Surface Motions and Mapping Small Terrestrial or Planetary Surface Deformations with Synthetic Aperture Radar," 1990.

No. 4,829,303: Howard A. Zebker, Daniel N. Held, Jakob J. van Zyl, Pascale C. Dubois, and Lynne Norikane, "Data Volume Reduction for Imaging Radar Polarimetry," 1989.

No. 4,450,447: Howard A. Zebker, Daniel N. Held, Richard M. Goldstein, and Thomas Bickler, "Synthetic Aperture Radar Target Simulator," 1984.

OTHER TECHNOLOGY AWARDS:

NASA Board Award for New Technology Report no. 20376: "ROI (Repeat Orbit Interferometer) Software."

PANELS AND COMMITTEES:

National Academies Panel on Earth Science and Applications, 2017-2018.
Science Team, NASA NISAR Mission, 2017-
Postdoctoral Research Program, US Army Corps of Engineers Engineer Research and
Development Center's (ERDC) proposal review, multiple years
Science Definition Team, NASA NISAR Mission, 2014-2017
Session convener and co-Chair, Toward Universal Data InSAR Products, AGU Fall
Meeting, 2017, New Orleans.
National Research Council Panel of the US Land Imaging Program, 2012-2014
Review panels (multiple): NASA Planetary Science Program, NASA Postdoctoral
Research Program, US Army Corps of Engineers Engineer Research and
Development Center's (ERDC) FY15 proposal review
Session convener and co-Chair, Exotic and Unusual Applications of Geodesy, AGU Fall
Meeting, 3-7 Dec. 2012, San Francisco.
NASA DESDynI Science Definition Team, 2012-2014
NASA Geodetic Imaging Panel, 2012
National Research Council Panel on A Sustained Land Imaging Program, 2011-2012
NASA Review Committee, Earth System Science Fellowships, 2011
NASA Geodetic Imaging Panel, 2011
USEReST Program Committee, Naples, Italy Nov. 11-14, 2008.
Executive Committee, Western North America Interferometric SAR (WInSAR)
consortium, a division of the Southern California Earthquake Center, National
Science Foundation, 2008-10
Convenor, Report Chair and Editor, NASA InSARPROC2008 Workshop on
Interferometric SAR Processing, held at Stanford University, July 2008.
NASA DESDynI (Deformation, Ecosystem, and Dynamics of Ice) Space Mission
Science Steering Committee, 2008-2012
National Science Foundation EarthScope Steering Committee for EarthScope program,
2007-2011
InSAR Review Board, NASA Jet Propulsion Laboratory, 2006-2008
NASA Earth Science Technology Office Review Panel, 2006-10
International Program Committee, International Association of Science and Technology
for Development (IASTED), International Conference on Antennas, Radar, and
Propagation 2007 (ARP 2007), 2007-2009.
NASA Review Committee, Earth System Science Fellowships
NRC Space Studies Board Earth Science and Applications from Space: Panel on Solid
Earth Hazards, Resources, and Dynamics, 2005-7
InSAR Review Board, NASA Jet Propulsion Laboratory, 2006-
NASA Earth Science Technology Office Review Panel, 2005
NASA Alaska SAR Facility Users Working Group
NASA Review Committee, Earth System Science Fellowships
NASA Mars Reconnaissance Orbiter Participating Scientist Review Committee
Organizing Committee, NASA/NSF/USGS InSAR Working group, 2005
Reports Committee, NASA/NSF/USGS InSAR Working group, Chair 2005

Western North America Interferometric SAR (WInSAR) consortium, a division of the Southern California Earthquake Center, National Science Foundation, Chair 2005-2007

NRC Space Studies Board Earth Science and Applications from Space Panel on Solid Earth Hazards, Resources, and Dynamics, 2005-2007

NASA Earth Science Technology Office Review Panel, 2005

Editorial Board, Proceedings of the IEEE, 2005-2012

Associate Editor, IEEE Transactions on Geoscience and Remote Sensing

International Union of Radioscience (URSI) Board of Experts for Medal Evaluations, 2005.

Organizing Committee, Interagency Interferometric Synthetic Aperture Radar Workshop, 2004

Executive committee, Western North America Interferometric SAR (Winsar) consortium, a division of the Southern California Earthquake Center (member, 1999-present, Vice Chair, 2002-4, Chair 2004-5)

National Astronomy and Ionospheric Center- Arecibo Observatory, Visiting Committee, 2002-2004 (Chair, 2003-4)

NASA Technical Review Committee for HICP planetary missions, 2004

NASA Review Committee, Earth System Science Fellowships, 2004

Technical Program Committee, 2003 Progress in Electromagnetics Research Symposium

NASA Antarctic Mapping Mission (AMM) Science Advisory Group, 2001-

Technical Program Committee, 2002 Progress In Electromagnetic Research Symposium

Solid Earth Science Proposal Review Panel, NASA Earth Science Enterprise, 2002.

Technical Program Committee, 2001 Progress In Electromagnetic Research Symposium

Steering Committee and Earthquake Working Group Chair, National Science Foundation Workshop on Scientific Applications of Synthetic Aperture Radar, University of Southern California, June 28-30, 2000,

ESTO (Earth Science Technology Office), NASA Earth Science Enterprise, Advanced Radar Technology Panel, 2000.

Solid Earth Science Proposal Review Panel, NASA Earth Science Enterprise, 2000.

International Scientific Committee, 8th International Symposium on Physical Measurements and Signatures in Remote Sensing, ISPRS, 2000

WinSAR Executive Committee, Southern California Earthquake Center, 1999-2002

Technical Program Committee, Progress in Electromagnetics Research Symposium 2000

NASA ASF Data Quality Team, 1998-2002

NASA Alaska SAR Facility Users Working Group, 1998-2004

NASA Europa Radar Instrument Definition Team, 1998-1999

NASA LightSAR Science Working Group, 1996-1999.

NASA-ASI Topographic Mission Concept Working Group, 1992-1993.

Advanced Radar Technology Panel, Naval Studies Board, National Research Council, 1991-1992.

Panel on Soviet Oceanographic SAR, Foreign Applied Sciences Assessment Center (FASAC), 1988-90.

Earth Observing System (EOS) Geodynamics Laser Ranging System Review Board, 1989.

OTHER PROFESSIONAL ACTIVITIES:

Session Chair: Differential SAR Interferometry II, Tuesday, July 24, 2018 IEEE International Geoscience and Remote Sensing Symposium, Valencia, Spain, July 22-27, 2018.

Session Chair: Sensors and Platforms- SAR Processing: Interferometric SAR Processing Thursday, July 29, 08:20 - 10:00, 2010 IEEE International Geoscience and Remote Sensing Symposium, Honolulu, HI, July 25-30, 2010.

Session Chair, Remote Sensing and Polarimetry: SAR, GPR, Imaging, at Progress in Electromagnetics Research Symposium (PIERS 2010), Cambridge, MA, July 5-8, 2010.

Editor and Chair, Editorial Committee, Report of the July 17-19, 2007 Orlando, Florida Workshop to Assess the National Research Council Decadal Survey Recommendation for the DESDynI Radar/Lidar Space Mission.

Associate Editor, Journal of Geophysical Research, 2008.

Associate Editor, IEEE Transactions on Geoscience and Remote Sensing

Editorial Board, Proceedings of the IEEE, 2005-
Chair (2004-6), Executive Committee member (2002-), Western North America Interferometric SAR (WInSAR) consortium, a division of the Southern California Earthquake Center, National Science Foundation

Session chair, InSAR Science Results and Recommendations for Future Missions, American Geophysical Union Fall Meeting, San Francisco, Dec. 10-15, 2006.

Session chair, Geological Hazards. 2006 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2006), Denver, CO, 2006.

Technical Program Committee, 2006 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2006), Denver, CO, Jul. 31 – Aug. 4, 2006.

Session chair, Remote Sensing and Imaging, PIERS 2006 Cambridge, Progress In Electromagnetics Research Symposium, Cambridge, MA, March 26–29, 2006.

Session chair, Microwave Remote Sensing of Snow, PIERS 2006 Cambridge, Progress In Electromagnetics Research Symposium, Cambridge, MA, March 26–29, 2006.

Session chair and organizer, Geophysical Modeling Using Spaceborne InSAR Measurements, American Geophysical Union 2002 Fall Meeting

Session chair, Remote Sensing and Geophysical Problems, Progress in Electromagnetics Research Symposium (PIERS 2002)

Session chair, Interferometric and Differential Interferometric SAR, International Geoscience and Remote Sensing Symposium, July 24-28, 2000, Honolulu, Hawaii.

Session convenor, Imaging Geodesy I & II, 1998 American Geophysical Union Fall Meeting, San Francisco, CA, December 6-10, 1998.

Session chair, “SAR Interferometry: Signal Processing and Phase Unwrapping,” 1998 Progress in Electromagnetic Research Symposium (PIERS '98), July 13-17, 1998, Nantes, France.

Session chair, “Interferometry.” 1998 Progress in Electromagnetic Research Symposium (PIERS '98), July 13-17, 1998, Nantes, France.

Session organizer and co-chairman, “Applications of Radar Interferometry,” American Geophysical Union Fall meeting, San Francisco, CA, December 15-19, 1996.

Session organizer, “Radar Interferometry,” Progress in Electromagnetics Research Symposium (PIERS 96), Innsbruck, Austria, July 8-12, 1996.

Session chair, "Advances in Radar Interferometry," Progress in Electromagnetics Research Symposium (PIERS 95), University of Washington, Seattle, WA, July 24-28, 1995.

Technical committee member for Progress in Electromagnetic Research Symposium, Symposium (PIERS 93), California Institute of Technology, Pasadena, CA, July 12-16, 1993.

Session chair, "Interferometry I and II," Progress in Electromagnetics Research Symposium (PIERS 93), California Institute of Technology, Pasadena, CA, July 12-16, 1993.

Session chair, "Foliage Penetration and Scattering," Progress in Electromagnetic Research Symposium, Symposium (PIERS 91), Cambridge, MA, July 1-5, 1991.

Session chair, "Imaging Radar Polarimetry: Systems and Applications," NSF Workshop on Future Directions in Electromagnetics Research, Boston, MA, July 25-27, 1991.

UNIVERSITY SERVICE:

Chair, Department of Geophysics, Stanford University, 2013-
Associate Chair, Admissions, Department of Electrical Engineering, 2008-
Stanford Graduate Fellowship Faculty Advisory Committee, 2014-
Search committee, Geophysics Broad Area Search, 2016-17
Promotion Committee, Sigrid Close, Aero/Astro Department, 2016
Faculty Search Committee, Dept. of Aero/Astro, Stanford University, 2010-2011
Target of Opportunity Search Committee, Jenny Suckale, Geophysics Department, 2013
Faculty Search Committee, Dept. of Aero/Astro, Stanford University, 2010-2011
Team Leader, School of Earth Sciences Initiative on Computational Earth Sciences,
2010-2011
C-ACIS, Faculty Senate Committee on Academic Computing and Information Systems,
2009-2012, Chair 2010-2012
Board of Judicial Affairs, Chair, 2007-2010
George A. Thompson Fellowship Committee, Department of Geophysics, Chair, 2006-7
Geophysics Department Admissions Committee, Chair 2006-2011
Academic Committee, Stanford Institute for the Environment, 2005
Admissions committee, Electrical Engineering Department, Chair, 2008-present, Member
2005-, Co-Chair, 2006-7
School of Earth Sciences Computational Geosciences Committee, 2005
Faculty Senate Committee for Review of Undergraduate Majors (C-RUM), 2002- (Chair,
2003, 2004-5, and Fall 2006)
Department of Electrical Engineering Qualification Examination Appeals Committee,
2004-2005
School of Earth Sciences Committee on Establishment of a School-wide Undergraduate
major, 2004-2005
Geophysics Department Curriculum Committee, Chair, 2002-2009
EE Graduate Admissions Committee, STARLAB representative, 1998-2005
School of Earth Sciences Committee on Computational Geosciences, 2003-2004
Geological and Environmental Sciences Search Committee for Surface Processes, 2002-3
EE Graduate Program Committee, 1997-2003
Chair, George A. Thompson Fellowship Committee, Department of Geophysics, 2003
EE Search Committee for Digital Image and Video Systems, 1998-1999
EE Search Committee for Medical Imaging Systems, 2000.
University Freshman Advisor, 1997-2003
Geophysics Department Graduate Program Coordinator, 1998-2002

STUDENTS SUPERVISED and GRADUATION DATES:

Ph.D. students in Electrical Engineering:

Schmidt, Arlen	January, 2000
Chen, Curtis	June, 2001
Hoen, Weber (Applied Physics)	November, 2001
Harcke, Leif	May, 2005

Omni, Fayaz	December, 2006
Oveisgharan, Shadi	August, 2007
Bertran-Ortiz, Ana	August, 2007
Wye, Lauren	September, 2011
Cahoy, Kerri	June, 2009
Gunnarsdottir, Hrefna	June, 2010
Thompson, Fraser	June, 2010
Shanker, Piyush Agram	June, 2010
Chen, Albert	December 2013
Wortham, Cody	June, 2014
Lien, Jaime	November, 2016
Lin, Qiuhua	March, 2017
Huang, Stacey	2020 (est)
Liang, Yi	transferred to another group
Baumstark, Paul	left to work at Google
Landesman, Roxanne	On leave
Woods, William	left to form start-up company
Chu, Tao	Transferred to Engineer Program

Ph.D. students in Geophysics:

Jonsson, Sigurjon	June, 2002
Hoffmann, Joern	January, 2003
Hooper, Andy	May, 2006
Bechor, Noa	December, 2006
Yun, Sang-Ho	February, 2007
Reeves, Jessica (co-advisor)	September, 2013
Erban, Laura (co-advisor)	December, 2013
Chen, Jingyi	January, 2014
Smith, Ryan (co-advisor)	2018
Yoon, Clara (co-advisor)	2018
Zheng, Yujie	2019 (est)
Biondi, Ettore (2 nd advisor)	2019 (est)
Liu, Tianze (2 nd advisor)	2019 (est)
Wong, Ying Qi (2 nd advisor)	2019 (est)
Michealides, Roger	2020 (est)
Pepin, Karissa	2021 (est)
Velterop, Emma	2021 (est)
Rundle, Paul	Left for another university
Fleishman, Michael	Left to work

Post-Doctoral students:

Amelung, Falk	Geophysics	1997–2000
Gelautz, Margrit	Electrical Engineering	1998–2000
Habambyingwe, Jean-Eudes	Electrical Engineering	1998–2000

Akiko Tanaka	Electrical Engineering	2000
Yo Fukushima	Geophysics	2012
Lin Liu	Geophysics	2011-2013
Jingyi Chen	Geophysics	2014-2017
Albert Chen	Geophysics	2013-2015

Student Visiting Scholars (pre-Ph.D.):

Hanssen, Ramon	Geodetics, Technical University of Delft At Stanford CY 1997–1998
Peiri, Shachak	Geophysics and Planetary Science, Tel Aviv University, At Stanford Jan.-Mar., 2000, and Sept-Nov, 2001, 2003
Colclough, Sarah	Geography, Cambridge University At Stanford CY2001-2002
Lin, John	Earth Sciences, Cambridge University At Stanford CY 2001, Spring 2002
Tengonciang, Arlene	National Institute of Geological Sciences and University of the Philippines – Diliman, 2002
Ferraiuolo, Giancarlo	University of Naples, Italy, 2003-4
Lauknes, Tom Rune	Norway University of Technology, 2007-8

Graduated Geophysics Master’s students with thesis:

Oh, Hyang-Im	September, 1996
Lu, Yanping	June, 1996(?)
Lessick, David	September, 1997
Boyd, Danielle	June, 1998
Day-Lewis, Amy	June, 1998
Sinha, Mamta	June, 2000
Fleishman, Michael	June, 2004
Stepinski, Jan (ICME)	June, 2014

Graduated Electrical Engineering students with Engineer’s thesis:

Ishikawa, Takuya	June, 2001
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RESEARCH ACTIVITIES: (by expiration date)

- 2018-2020, Air Force Office of Sponsored Research, Space Surveillance with Correlation Based Radar
- 2015-2020, University of California, Los Angeles, Radio Science Advisor to Planetary Data System
- 2017-2020, National Aeronautics and Space Administration, Slow Slip Events in Cascadia: Observation and Hazard Analysis Derived from InSAR, With GPS and Seismic Data Constraints
- 2017-2019, University of Colorado, Boulder, The Airborne InSAR and PolSAR Permafrost Experiment
- 2017-2019, Jet Propulsion Laboratory, Simplified Parallelized ISCE
- 2016-2019, National Aeronautics and Space Administration, Persistent Scatterer InSAR: Maximizing Coverage and Enabling Application to Groundwater Management
- 2013-2018, Jet Propulsion Laboratory, Mars Express Radio Science Experiment,
- 2016-2018, Ford Motor Company, Development of Improved Radar Perception
- 2015-2017, SRI International, CubeSat Imaging Radar for Earth
- 2013-2017, University of Colorado, Boulder, Remotely-Sensed Active Layer Thickness
- 2012-2017, National Aeronautics and Space Administration, Development and Modeling of InSAR Time Series Methods
- 2012-2017, National Aeronautics and Space Administration, Time and Space Series InSAR for the DESDynI Science Definition Team
- 2012-2016, NASA, Using InSAR Deformation Measurements to Improve Estimates of Hydraulic Head
- 2012-2016, National Science Foundation, Collaborative Research: Exploring the Dynamics of the Active Layer and Near-Surface Permafrost across the North Slope of Alaska
- 2012-2015, National Aeronautics and Space Administration, Modeling Titan surface backscatter from fine-resolution, global scatterometer observations
- 2013-2015, National Science Foundation, CC-NIE Integration: Bringing SDN based Private Cloud to University Research
- 2014-2015, Google, Inc., Google Personal Radar Project
- 2010-2013, NASA, "Imaging Silent Earthquakes"
- 2010-2012, Jet Propulsion Laboratory, InSAR Scientific Computing Environment
- 2009-2012, Jet Propulsion Laboratory, "Scientific Computing Environment"
- 2009-2011, NASA, "Electrical and Physical Properties of Titan Surface Features from Active and Passive Cassini RADAR Observations"
- 2008-2011, NSF, "A new method for measuring time-dependent deformation: persistent scatterer InSAR"
- 2008-2011, NASA, "Characterizing subsurface processes subtle deformation signatures using Envisat ScanSAR interferometry and spatio-temporal modeling"
- 2008, NSF, "WInSAR data system upgrade"
- 2008-2010, Jet Propulsion Laboratory, "Rapid repeat deformation measurement capability for the NASA AIRSAR system"
- 2008-2010, Jet Propulsion Laboratory, Calibrated Multiangle Radar Measurements
- 2007-2010, NASA, "Multiwavelength InSAR Properties of the Polar Ice Sheets, International Polar Year program"

1990–2010, Facility Instrument Team Member, NASA Cassini Mission: Synthetic Aperture Radar Facility, “Calibrated multiangle measurements of Titan”

2007-2009, NSF, “Extending Persistent Scatterer InSAR to Heavily Vegetated Regions Using Information Theoretic Analysis”

2005-2009, Principal Investigator, ESA Envisat Category 1 Data proposal, “Crustal Deformation Research in Western North America”

2006-2008, Principal Investigator, NSF, “WInSAR data system upgrade”

2005-2008, Principal Investigator, NSF grant, “A New Method for Measuring Time-Dependent Deformation: Persistent-Scatterer INSAR

2005-2008, Principal Investigator, NASA/JPL contract, “Rapid repeat deformation studies of the Earth from unmanned aerial vehicles”

2006-2007, Jet Propulsion Laboratory, AFRL Cognitive Computing Environment

2007- , Principal Investigator, Japanese Aerospace Exploration Agency (JAXA), Data proposal, “Deformation Research Using PALSAR Instrument on the ALOS spacecraft”

2006-2007, NASA/JPL/Air Force Research Laboratory, “Cognitive Computing Framework”

2004-2007, Principal Investigator, ESA Category 1 Data Proposal, “Western North America Crustal Dynamics Research: WINSAR Consortium”

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2005, Principal Investigator, Southern California Earthquake Consortium -University of Southern California, “WInSAR data system support”

2003-2005, Principal Investigator, NASA/JPL contract, “Rapid repeat deformation studies of the Earth from unmanned aerial vehicles”

2003-2004, Principal Investigator, Southern California Earthquake Center grant, “Reengineering the WInSAR data archive system”

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1989-2004, Co-Investigator, NASA Earth Observing System Interdisciplinary Science Investigation, "A Global Assessment of Active Volcanism, Volcanic Hazards, and Volcanic Inputs to the Atmosphere from the Earth Observing System"

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