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Christopher Francis

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Professor of Earth System Science and Senior Fellow, by courtesy, at the Woods Institute for the Environment



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Internet Links:

Environmental Microbiology

Research & Scholarship Teaching Publications

- Professor, Earth System Science
- Senior Fellow (By courtesy), Stanford Woods Institute for the Environment
- Member, Bio-X

Administrative Appointments

- Graduate Student, Research, Scripps Institution of Oceanography (UCSD) (1994 2000)
- U.S. Environmental Protection Agency STAR Graduate Fellow, University of California, San Diego (1995 1998)
- Harry Hess Postdoctoral Fellow, Geosciences, Princeton University (2001 2002)
- NSF Postdoctoral Research Fellow, Microbial Biology, Princeton University (2002 2003)
- Assistant Professor of Geological & Environmental Sciences, Stanford University (2003 2008)
- Assistant Professor, Environmental Earth System Science, Stanford University (2008 Present)
- Affiliated Faculty Member, Woods Institute for the Environment, Stanford University (2009 2011)
- Associate Professor, Earth System Science, Stanford University (2010 2017)
- Senior Fellow, Woods Institute for the Environment, Stanford University (2011 Present)
- Professor, Earth System Science, Stanford University (2017 Present)

Honors and Awards

- Highest Honors, Biol.; Cowell College Honors; Mark T. MacMillan Award, Undergrad Research,..., University of California, San Diego (1994)
- STAR (Science To Achieve Results) Graduate Fellow, U.S. Environmental Protection Agency (1995-1998)
- Harry Hess Postdoctoral Fellow, Geosciences, Princeton University (2001)
- Postdoctoral Research Fellow, Microbial Biology, National Science Foundation (2002-2003)
- Frederick E. Terman Fellow, Stanford University (2004)
- Nominee Packard Fellowship in Science and Engineering, Stanford University (2006)
- Faculty Early Career Development (CAREER) Award Recipient, National Science Foundation, Division of Ocean Sciences (2009-present)

University Service and Professional Activities

Co-Organizer and Chair, "Populations and Activity of Ammonia-Oxidizing and Denitrifying Organisms in Coastal Waters" Session at the American Society for Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, New Orleans, Louisiana, February 2013, American Society for Limnology and

Oceanography (ASLO) (2013 - 2013)

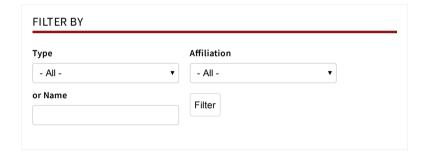
- EESS Faculty Search Committee for Coastal Human-Environment Systems position, Stanford University (2013 Present)
- Chair, EESS Graduate Admissions Committee, Stanford University (2011 2013)
- Organizer, Environmental Earth System Science (EESS) Departmental Seminar, Stanford University (2011 2011)
- Co-Chair, School of Earth Sciences GeoBiology Faculty Search Committee, Stanford University (2011 Present)
- Associate Editor, Frontiers in Aquatic Microbiology (2010 Present)
- Invited Speaker for the 13th International Symposium on Microbial Ecology (ISME- 13) symposium entitled "Shifting Paradigms in Major Biogeochemical Cycles", (August 22- 27, 2010; Seattle, WA), International Symposium on Microbial Ecology (ISME- 13) (2010 2010)
- Environmental Venture Project (EVP) Committee/Panel Member, Woods Institute for the Environment (2010 2010)
- Co-Chair, Environmental Venture Project (EVP) Selection Committee, Woods Institute for the Environment (2010 2012)
- Member, Woods Faculty Leadership Working Group, Woods Institute for the Environment (2010 Present)
- Invited Speaker for the 2010 Gordon Research Conference on "Marine Microbes: From Genes to Global Cycles", (July 4-9, 2010; Tilton School, Tilton, NH), Gordon Research Conference (2010 2010)
- Chair/Organizer of "New Processes and Players in the Marine Microbial Nitrogen Cycle" Symposium at the 110th General Meeting of the American Society for Microbiology (ASM) General Meeting, San Diego, CA, May 2010, American Society for Microbiology (ASM) (2010 2010)
- Co-Organizer and Chair of "Linking Microbial Communities to Geochemical Cycling" Session at the American Society for Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Nice, France, January 2009, American Society for Limnology and Oceanography (ASLO) (2009 2009)
- Green Earth Sciences Building Space Committee, Stanford University (2009 2009)
- Earth Sciences Council Member, Stanford University (2009 Present)
- Invited speaker Ocean Sciences Seminar Series, University of California-Santa Cruz (May 2009), University of California-Santa Cruz (2009 2009)
- Environmental Venture Project (EVP) Committee/Panel Member, Woods Institute for the Environment (2009 2009)
- Invited speaker Environmental Microbiology/Microbial Ecology (EMME) Seminar Series, University of California-Santa Barbara (May 2009), University of California-Santa Barbara (2009 2009)
- Co-Chair/Organizer of "Functional Diversity in Nitrifying Organisms: Response to stress and substrate availability, evolution and niche differentiation"

 Session at the 1st International Conference on Nitrification (ICoN1), Louisville, KY, July 2009, International Conference on Nitrification (ICoN1) (2009 2009)
- Reviewer for 'Nitrification' textbook, published by American Society for Microbiology (ASM) Press, American Society for Microbiology (ASM) (2009 2009)
- Invited Speaker for the 1st International Conference on Nitrification (ICoN1), special session on "Diversity and abundance of nitrifier communities and their contributions to nitrification, nitrifier denitrification and anammox processes", University of Louisville, Louisville, KY (July 2009), International Conference on Nitrification (ICoN1 (2009 2009)
- Invited Speaker Scripps Institution of Oceanography, University of California at San Diego, Marine Biology Seminar (November 2009), Scripps Institution of Oceanography, University of California at San Diego (2009 2009)
- Editorial Board member, Applied and Environmental Microbiology journal (2008 Present)
- EESS Graduate Admissions Committee, Stanford University (2008 2011)
- Invited speaker Department of Biological Sciences, Northern Arizona University (2008 2008)
- Environmental Venture Project (EVP) Committee/Panel Member, Woods Institute for the Environment (2008 2008)
- Co-Organizer and Chair of "Saline Environments" Session at the US-China Geomicrobiology Workshop, Beijing, China, October 2008, US-China Geomicrobiology Workshop (2008 2008)
- EESS Faculty Search Committee for Marine Chemist position, Stanford University (2008 Present)
- Hopkins Marine Station (HMS) Faculty Search Committee for Marine Cell Biologist position, Stanford University, (2008 2009)
- Invited speaker Environmental Microbiology Seminar Series, University of California-Berkeley (May 2008), University of California-Berkeley (2008 2008)
- Invited speaker Environmental Engineering Seminar Series, University of California-Berkeley (October 2008), University of California-Berkeley (2008 2008)
- Panelist National Science Foundation, Microbial Interactions & Processes (MIP) Program, National Science Foundation (2007 2007)
- Invited speaker Department of Microbiology, University of Tennessee (2007 2007)
- Co-Organizer of "Microbial communities along environmental gradients: Linking microbial ecology and the ecosystem" Symposium at the Ecologicial Society of America/SER Joint Meeting, San Jose, CA, August 2007, Ecologicial Society of America/SER (2007 2007)
- Earth Sciences Council Member, Stanford University (2007 2009)
- Panelist National Science Foundation, Antarctic Biology & Medicine (ABM) Program, National Science Foundation (2006 2006)
- Environmental Earth Science (EES) Undergraduate Curriculum Committee Member, Stanford University (2006 2006)
- SES Faculty Search Committe Member for Physical Oceanographer position, Stanford University (2006 2007)
- Editorial Advisory Board member, Geobiology journal (2006 Present)
- Co-Chair of "Archaea in the Earth System" Session at the American Geophysical Union National (Fall) | Meeting, San Francisco, CA, American Geophysical Union (2006 2006)
- Invited Speaker 'Functional Genes' Symposium, International Geobiology 2006 Course, University of Southern Californa Wrigley Marine Science Center (Catalina Island, CA), University of Southern Californa Wrigley Marine Science Center (2006 2006)
- Invited Speaker 2006 Gordon Research Conference on Organic Geochemistry, special session on "Molecular Signatures of Archaea and Archaeal Processes" (Holderness School, Plymouth, NH), Gordon Research Conference (2006 2006)
- Speaker, School of Earth Sciences Faculty Forum, Stanford University (2006 2006)
- Speaker, Inaugural Global Bioreactor Network (GBN) Workshop, Nanyang Technological University (November 2006), Inaugural Global Bioreactor Network (GBN) (2006 2006)
- Invited Participant, American Academy of Microbiology Colloquium on Marine Microbial Diversity: The Key to Earth's Habitability, San Francisco, CA,
 American Academy of Microbiology (2005 2005)
- Invited Speaker Agouron Institute Microbial Mat Meeting, La Jolla, CA, Agouron Institute (2005 2005)

- SES Diversity Committee Member, Stanford University (2005 2006)
- GES Graduate Admissions Committee Member, Stanford University (2005 2008)
- Invited speaker Ocean Sciences Department, University of California at Santa Cruz (2004 2004)
- Invited speaker Environmental Engineering and Science Seminar, Department of Civil & Environmental Engineering, Stanford University (2004 2004)
- Invited Speaker Biological Oceanography Seminar, School of Oceanography, University of Washington (2004 2004)
- Invited Speaker Division of Geological and Planetary Sciences,, California Institute of Technology (2004 2004)
- University Chair of Oral Examination (Ph.D. Dissertation Defense) for 12 Stanford Ph.D. students (from 6 departments), Stanford University (2003 Present)
- Invited speaker Department of Geography and Environmental Engineering, Johns Hopkins University (2003 2003)
- Founder and Organizer, Geomicrobiology & Microbial Geochemistry (GMG) Seminar Series, Stanford University (2003 Present)
- Ph.D. Dissertation Committee Member for 27 students, Stanford University (2003 Present)
- Manuscript Reviewer for Applied and Environmental Microbiology, Aquatic Microbial Ecology, Aquatic Sciences, Archives of Microbiology, Biogeosciences Discussions, Environmental Microbiology, Environmental Science & Technology, FEMS Microbiology Ecology, FEMS Microbiology Reviews, Geochimica et Cosmochimica Acta, Geomicrobiology Journal, Journal of Applied Microbiology, Limnology & Oceanography, Microbiology, Molecular Ecology, Proceedings of the National Academy of Sciences USA, The ISME Journal, and Trends in Microbiology journals, Professional Journals (2003 Present)
- Proposal Reviewer for NSF Antarctic Biology and Medicine, Biocomplexity, Biogeosciences, Biological Oceanography, CAREER, Chemical Oceanography, Ecological Biology, Ecosystem Studies, Environmental Genomics, Geobiology and Low-Temperature Geochemistry, Microbial Genome Sequencing, and Microbial Observatories & Microbial Interactions and Processes (MO/MIP) programs, Various (2003 Present)
- Invited speaker Department of Microbiology and Immunology, University of British Columbia (2002 2002)
- Invited speaker Department of Geological & Environmental Sciences, Stanford University (2002 2002)

Education

- Ph.D., Scripps Institution of Oceanography, University of California, San Diego (UCSD), Marine Biology (2000)
- B.A., University of California, Santa Cruz (UCSC), Biology (1994)





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