

JENNIFER N. SWIFT

Spatial Sciences Institute
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CURRENT FULL-TIME APPOINTMENT

Associate Professor (Teaching) of Spatial Sciences

Promoted to Associate Professor (Teaching) in June 2013
University of Southern California, Spatial Sciences Institute

Teach in online Geographic Information Science and Technology Program (post-graduate certificate and M.S. degree), and GeoDesign Program (B.S. degree). Courses taught: Human Populations and Natural Hazards, Principles of Geographic Information Science, Geospatial Modeling and Customization, Concepts for Spatial Thinking, Spatial Databases, GIS Programming and Customization, and Web GIS.

EDUCATION

1995 Ph.D., Geophysics, Boğaziçi University, Istanbul, Turkey

Dissertation Title: *Seismic Site Effects in Istanbul*

Advisor: Mustafa M. Erdik

1989 M.S., Geology, Northern Illinois University, Dekalb, Illinois

Thesis Title: *Petrography and Geochemistry of the Near-Shore Carbonate Aquifer System of the Northwestern Coast of the Yucatan Peninsula, Yucatan, Mexico*

Advisor: Eugene C. Perry

1984 B.S., Geochemistry, Bowling Green State University, Bowling Green, Ohio

PROFESSIONAL EXPERIENCE

University of Southern California

2017-2018	Leader, Esri Development Center International Community (EDCIC)
2012-Present	Program Director, Esri Development Center (EDC), Spatial Sciences Institute
2011-2015	Director of Graduate Studies, Geographic Information Science and Technology Programs
2011-2013	Assistant Professor (Teaching), Spatial Sciences Institute
2009-2011	Assistant Professor (Teaching), Department of Geography
2001-2009	Research Assistant Professor, Department of Civil and Environmental Engineering
2000-2001	Research Associate, Department of Civil and Environmental Engineering

California Geological Survey (previously California Division of Mines and Geology)

2001-2002 Environmental Intern

Bogazici University, Istanbul

1996-1999 Assistant Professor, Department of Earthquake Engineering, Kandilli Observatory and Earthquake Research Institute

1991-1996 Graduate Research Assistant, Department of Earthquake Engineering, Kandilli Observatory and Earthquake Research Institute

Woodward-Clyde Consultants

1990-1991 Senior Staff Geologist

1989-1990 Staff Geologist

Northern Illinois University

1985-1988 Geology Graduate Teaching Assistant, Department of Geology

HONORS AND AWARDS

2018 Esri GIS Hero

2015 National Association of Professional Women (NAPW) VIP Woman of the Year Circle

CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

2017 New Faculty Institute, participant, University of Southern California Center for Excellence in Teaching (CET)

2015 Certified GIS Professional (GISP), Certified September 2015 by the US GIS Certification Institute

2014 Certificate in Online Teaching, awarded December 2014 by the Online Learning Consortium (formerly Sloan Consortium)

2005 Mellon Fellow, Non-Tenure Track Faculty Mentoring Project, USC Mellon Academic Mentoring Support Program, University of Southern California

PUBLICATIONS

Book Chapter

2018 Weidemann, C., Swift J.N. and Kemp, K.K.. Geosocial Footprint and Concerns in Geoprivacy. In Thatcher, Jim, Josef Eckert and Andrew Shears (Eds). *Thinking Big Data in Geography: New Regimes, New Research*. University of Nebraska Press: 123-144

Refereed Journal Articles

2017 Elson, L., Wright, K., Swift, J.N., and Feldmeier, H. Tungiasis as a paradigmatic example of a neglected tropical disease: control is feasible in the absence of a roadmap through grassroots and digital mapping approaches. *Journal of Tropical Medicine and Infectious Disease* 2 (3): 33.

2013 Weidemann, C. and Swift, J. Social Media Location Intelligence: The next Privacy Battle – An ArcGIS add-in and Analysis of Geospatial Data Collected from Twitter.com. *International Journal of Geoinformatics* 9 (2): 21-17.

2012 Swift, J.N., Nyguen, T., and Wilson, J.P. Estimated Temporal Variation of Losses Due to a Recurrence of the 1933 Long Beach Earthquake. *Earthquake Spectra*. 28 (1): 347-365

2009 Ghaemi, P., Swift, J., Sister, C., Wilson, J.P., and Wolch, J. Design and Implementation of a Web-Based Platform to Support Interactive Environmental Planning. *Computers, Environment and Urban Systems* 33: 482-491

- 2004 Swift, J. N., Stepp, J.C., Bobbitt, J., Futrelle, J., Tiwana, S., Ali, M., Nasir, F., Javed, A., and Khan, Y. Information Technology Issues in the Development of the Pilot COSMOS/PEER-LL (Pacific Earthquake Engineering Research Institute (PEER, Berkeley) Lifelines Program) Geotechnical Virtual Data Center. *Geo-Trans 2004, ASCE*. UCLA, July 27-31
- 1998 Durukal, E., Erdik, M. Avci (Swift), Yuzugullu, J. O., Alpay, Y., Avar, B., Zulfikar, C., Biro, T., and Mert, A. Analysis of the strong motion data of the 1995 Dinar, Turkey earthquake. *Soil Dynamics and Earthquake Engineering*. 17 (7-8): 557-578
- 1997 Erdik, M., and Swift-Avci, J. Utilizing GIS for Earthquake Damage Scenario Development. *Geo-Information-Systeme, Journal for Spatial Information and Decision Making*. Wichmann Verlag, Heidelberg 10:16-20
- 1989 Perry, E.C., Swift, J. N., Gamboa., J., Reeve, A., Sanborn, R., and Marin., L., and Land Villasuso-Pino, M. Geologic and environmental aspects of surface cementation, north coast, Yucatan, Mexico. *Geology*. 17: 818-821

Edited Works

- 2003 Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data. *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, Richmond, CA, October 4-5, 2001. PEER, COSMOS Publication No. CP-2001/03: 1-3

Technical Reports and Working Papers

- 2010 Takemura B., Wilson J.P., Swift J.N. and Taher M. *Riverside Urban Area Security Initiative Risk/GAP Analysis*. Spatial Analysis of the natural, human-caused, and terrorist threats to the identified RUASI (Region Urban Area Security Initiative), November 4: 192
- 2009 Stepp, J.C., Ponti, D.J., Turner, L., Swift, J., Devlin, S., Zhu, Y., Benoit, J., Bobbitt, J. *PEER Lifelines Geotechnical Virtual Data Center*. Pacific Earthquake Engineering Center Report PEER 108.
- 2009 Goldberg D.W., Swift J.N. and Wilson J.P. *Address Standardization*. Los Angeles, CA, University of Southern California GIS Research Laboratory Technical Report No 12: 14
- 2008 Swift J.N., Goldberg D.W., and Wilson J.P. *Review of Geocoding Systems*. Los Angeles, CA, University of Southern California GIS Research Laboratory Technical Report No 10: 49
- 2008 Goldberg D.W., Swift J.N. and Wilson J.P. *Geocoding User Requirements Analysis*. Los Angeles, CA, University of Southern California GIS Research Laboratory Technical Report No 9: 38
- 2008 Goldberg D.W., Swift J.N. and Wilson J.P. *Geocoding Best Practices: Reference Data, Input Data and Feature Matching*. Los Angeles, CA, University of Southern California GIS Research Laboratory Technical Report No 8: 37
- 2007 Swift J. N., Antos M. J., Wilson J. P., and Sheng, J. *Upper Los Angeles River Area Recharge Suitability Analysis*. Los Angeles, California: USC GIS Research Laboratory Technical Report No. 6: 61
- 2007 Lam S., Swift, J., and Wilson J. P., 2007. *A Digital Soil map for the Green Visions Plan for 21st Century Southern California Study Area*. Los Angeles, CA: USC GIS Research Laboratory Technical Report No. 5: 58

- 2007 Sister, C., Wolch, J., Wilson, J.P., Linder, A., Seymour, M., Byrne, J., and Swift, J.N. *Park and Open Space Resources in the Green Visions Plan Area*. Los Angeles, CA: USC GIS Research Laboratory and Center for Sustainable Cities Green Visions Plan Technical Report No. 14: 159
- 2005 Swift, J.N., Ghaemi, P., Goldberg, D.W., and Wilson, J.P. *Prototype Geographic Search and Query Tools for the USC Digital Archive*. Prepared for the Digital Information Management Collection Information Systems, Information Services Division, USC, Los Angeles, CA: USC GIS Research Laboratory Technical Report No. 4: 1
- 2004 Swift, J., Futrelle, J., Ponti, D. , Bobbitt, J., Real, C., Grimes, P., Devlin, S., Peters, A., Castro, J. Ninic, I., Tiwana, S., Hu, J., Turner, L. and Stepp, C. *Pilot Geotechnical Virtual Data Center System Architecture and Databases, Section 4*. In Archiving and Web Dissemination of Geotechnical Data: Development of a Pilot Geotechnical Virtual Data Center. COSMOS Report to PEER Program of Applied Earthquake Engineering Research on Lifeline Systems, Task 2L02, 20 December 2004: 18
- 2004 Swift, J., Futrelle, J., Ponti, D. , Bobbitt, J., Real, C., Grimes, P., Devlin, S., Peters, A., Castro, J. Ninic, I., Tiwana, S., Hu, J., Turner, L. and Stepp, C. *COSMOS/PEER-LL XML Schema, Detailed System Architecture Description, and Workflows, Appendix 3*. In Archiving and Web Dissemination of Geotechnical Data: Development of a Pilot Geotechnical Virtual Data Center. COSMOS Report to PEER Lifeline Systems, Task 2L02, 20 December 2004: 129
- 2004 Swift, J., Eng, J., Bardet, J.P., Lui, F., Mokarram, N., and Pekcan, G. *Using the NEES Reference Data Model and the NEES Metadata Browser for Centrifuge Experiments, Version 1.0*. Prepared for the system integration award (NEESgrid) of the George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES), Report No. TR-2004-50. 11 November 2004: 59
- 2004 Bardet, J.P., and Swift, J. *NEES Centrifuge User Requirements, Version 1.0*. Prepared for the system integration award (NEESgrid) of the George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES). 9 March 2004: 23
- 2002 Bardet, J.P., Hu, J., Tobita, T., and Swift, J. *PG&E-Caltrans-PEER Ground Deformation Database*. Prepared for PEER Program of Applied Earthquake Engineering Research on Lifeline Systems. Department of Civil and Environmental Engineering, University of Southern California, Los Angeles, CA. March 2002: Vols. 1 and 2
- 2002 Bardet, J.P., Hu, J., Tobita, T., and Swift, J. *User Manual of PG&E-Caltrans-PEER Ground Deformation Database*. Prepared for PEER Program of Applied Earthquake Engineering Research on Lifeline Systems. Civil Engineering Department, University of Southern California, Los Angeles, CA. March 2002
- 2001 Nigbor, R.L., Swift, J.N., and Diehl, J. *Resolution of Site Response Issues in the Northridge Earthquake (ROSRINE), Data Collection, Processing and Dissemination From Phase 5b Field and Laboratory Investigations*. USC Report CE473. 21 November, 2001: 32
- 2001 Swift, J.N., Nigbor, R.L., and Diehl, J. *ROSRINE: Resolution of Site Response Issues from the Northridge Earthquake, Field Procedures Manual*. USC Report CE471. 15 June 2001: 76
- 2001 Nigbor, R.L., and Swift, J.N. *Resolution of Site Response Issues in the Northridge Earthquake (ROSRINE), Data Collection, Processing and Dissemination From Phases 1, 2 & 4 Field and Laboratory Investigations*. USC Report CE472. 15 June 2001: 250

- 1998 Erdik, M., Ansal, A., Aydinoglu, N., Barka, A., Isikara, M., Yüzügüllü, Ö., Avcı (Swift), J., Özel, O., Birgören, G., and Alpay, Y. *Izmir büyükşehir deprem master plani (Greater Izmir Earthquake Masterplan)*. Birinci Ara Rapor, Izmir Büyükşehir Belediyesi ile Boğaziçi Üniversitesi arasında imzalanan Arastirma Projesi Protocol Sözleşmesi Kapsamında Hazırlanmıştır. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. June 1998
- 1997 Erdik, M., Barka, A.A., and Avcı (Swift), J. *Assessment of the earthquake hazard: Botas-Ceyhan and Aliaga LNG Terminals*. Prepared for Parmas Industrial Research, Inc. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. August 1997
- 1995 Erdik, M., and Swift-Avcı, J. *Istanbul Earthquake Master Plan*. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. Boğaziçi University Report
- 1994 Avcı (Swift), J. and Erdik, M. *Investigation of the Damage Pattern of the 1894 Istanbul Earthquake on the Basis of Microtremor Measurements*. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. Boğaziçi University Report No. 93T0423, December 1994: 36
- 1993 Erdik, M., Avcı (Swift), J., Beyen, K., and Kadakal, U. *Strong Ground Motion*. In *November 6, 1992 (Ms=6.0) Izmir Earthquake: A Preliminary Reconnaissance Report*. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. Boğaziçi University Report. July 1993: 25-39
- 1993 Erdik, M., and Avcı (Swift), J. *Effect of local geology on the earthquake ground motion*. Kandilli Observatory and Earthquake Research Institute, Boğaziçi University, Istanbul, Turkey. Boğaziçi University Report No. 92T0450. May 1993: 13

Conference and Symposium Proceedings

- 2015 Ngo, V., Swift, J., and Chiang, Y.-Y. Visualizing Land Reclamation in Hong Kong: A Web Application. In *Proceedings of the 27th International Cartographic Conference, 16th General Assembly*, August 23-28, 2015, Rio de Janeiro, Brazil
- 2006 Swift, J., Stepp, J.C., Turner, L., Ponti, D., Benoit, J., Bobbitt, J., Real, C., Squibb, M., Archuleta, R., and Steidl, J. Overview of the COSMOS/PEER-LL Geotechnical Virtual Data Center (GVDC) - Status of Project 2L03 and Establishing Connectivity Between the COSMOS GVDC and the COSMOS VDC. In *Proceedings, Site Selection, Installation and Operation of Geotechnical Strong-Motion Arrays: Workshop 2, Guidelines for Installation, Operation, and Data Archiving and Dissemination*, May 17-19 2006, San Diego Supercomputer Center, San Diego, CA
- 2004 Bardet, J.-P., Peng, J., Law, K.H. and Swift, J. Overview of NEES data and metadata models. In *Proceedings of The 13th World Conference in Earthquake Engineering*, August 1-6, 2004, Vancouver, BC, Paper No. 4001.
- 2003 Zimmermann, R., Bardet, J.P., Ku, W.S., Hu, J. and Swift, J. Design of a Geotechnical Information Architecture Using Web Services. In *Proceedings of the Seventh World Multi-Conference on Systemics, Cybernetics and Informatics*, July 27-30, 2003, Orlando, Florida
- 2003 Swift, J. and Stepp, J.C. Development of Archiving and Web Dissemination of Geotechnical Data. In Huang M. (Ed.) *Proceedings of the SMIP02 Seminar on Utilization of Strong Motion Data*, May 2, 2003, Los Angeles, California: 161-175

- 2003 Bardet, J. P., Hu, J., Codet, S. and Swift, J.N. XML applications for archiving and internet exchange of geotechnical borehole data. In Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, October 4-5, 2001, Richmond, CA, PEER, COSMOS Publication No. CP-2001/03: 59-72
- 2003 Nigbor, R.L., Swift, J.N., Bardet, and Hu, J. The ROSRINE geotechnical database and website. In Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, 4-5 October 2001, Richmond, CA, PEER, COSMOS Publication No. CP-2001/03: 41-58
- 2003 Nigbor, R.L., Swift, J.N., and Hu, J. Quality assurance issues with geotechnical databases. In Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, October 4-5, 2001, Richmond, CA, PEER, COSMOS Publication No. CP-2001/03: 193-202
- 2003 Stepp, J.C., Swift, J.N., Roblee, C.J., Real, C.R., and Savage, W.U. Workshop Findings and Recommendations. In Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, October 4-5, 2001, Richmond, CA, PEER, COSMOS Publication No. CP-2001/03: 233-248
- 2003 Swift, J. and Stepp, J.C. Introduction: COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data. In Swift, J., Stepp, J.C., Roblee, C.J., Turner, L.L., Real, C.R., Savage, W.U., and Johnson, C. (Eds.) *Proceedings of the COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data*, October 4-5, 2001, Richmond, CA, PEER, COSMOS Publication No. CP-2001/03: 1-3
- 2003 Swift, J., Stepp, J.C., Vaughan, D., Grimes, P., and Turner, L. Collaborative Research on Web Dissemination of Geotechnical Data. In *Conference Report and Proceedings DGO 2002, National Conference for Digital Government Research*, May 20-22, 2002, Los Angeles CA, Research Papers, Thematic Sessions, Information and Communications Technology in Urban Transportation, Paper #3
- 2003 Erdik, M., Ansal, A., Aydınoğlu, N., Barka, A., Yüzügüllü, O., Birgoren, G., Swift, J., Alpay Y., and Şeşetyan, K. Development of Earthquake Masterplan for the Municipality of Izmir. In *Proceedings of the 6th International Conference on Seismic Zonation*, November 12-15, 2000, Palm Springs, CA: Paper No. 36
- 1998 Güllü, H., Iyisan, R., Avci (Swift), J., and Ansal, A. Geoteknik Mühendisliğinde bir coğrafik bilgi sistemi uygulaması (Geotechnical Engineering Study Utilizing a Geographic Information System). In *Zemin Mekaniği ve Temel Mühendisliği Yedinci Ulusal Kongresi, Yıldız Teknik Üniversitesi*, October 22-23, 1998, Istanbul, Turkey
- 1997 Avci (Swift), J., Onur, T., and Erdik, M. Use of GIS in Earthquake Hazard Assessment in Turkey. In *Cahiers du Centre Européen de Géodynamique et de Sismologie, Workshop on GIS and Major Hazards*, European Center for Geodynamics and Seismology (E.C.G.S.), December 3-6, 1997, Walferdange, Luxembourg
- 1997 Erdik, M., and Swift-Avci, J. Seismic risk assessments in Istanbul, Turkey. In *Proceedings of the Workshop on Megacities*, September 1-4, 1997, Frankfurt, Germany

- 1997 Erdik, M., and J. Swift-Avci, J. Utilizing GIS for earthquake damage scenario development. In D. Massonet (Ed.) *Radar-Interferometrie zur Messung der Erdkrustendynamik*, Spektrum der Wissenschaft, Heidelberg, September 1997: 56-65
- 1997 Avci (Swift), J., Erdik, M. and Onur , T. Earthquake Hazard Assessment in Istanbul. Geographic Information System Applications. In *SDEE 1997: Eighth International Conference Soil Dynamics and Earthquake Engineering*, July 20-24, 1997, Istanbul, Turkey
- 1996 Erdik, M., and Swift-Avci, J. Earthquake Hazard, Vulnerabilities and Risk in Istanbul. In *Proceedings: Earthquake Research in Türkiye: State-of-the-Art*, GeoForschungsCentrum, Potsdam and Afet Isleri Genel Mudurlugu, September 29 - October 3, 1996, Ankara, Turkey
- 1996 Erdik, M., Swift-Avci, J., Onur T. Kentlerde Deprem Tehlikesinin Belirlenmesi: Mikrobölgeleendirme. In *TÜBİTAK Deprem Sempozyumu*, 15-16 Şubat 1996, Ankara, Bildiriler Kitabı: 103-112. İnşaat Mühendisleri Odası -İzmir Şubesi Aylık Yayın Organı, Ağustos 1996, 67: 13-16
- 1996 Erdik, M., Işıkara, A., Swift-Avci, J. and Onur, T. Kentlerde Deprem Risklerinin Belirlenmesi: Deprem Senaryoları. In *TÜBİTAK Deprem Sempozyumu*, 15-16 Şubat 1996, Ankara, Bildiriler Kitabı: 113-122. İnşaat Mühendisleri Odası -İzmir Şubesi Aylık Yayın Organı, Haziran 1996, 66: 9-14
- 1995 Erdik, M., Swift-Avci J., and Durukal E. Developing an Earthquake Damage Scenario for Istanbul. In *Proceedings of the 5th International Conference on Seismic Zonation*, Nice, France, October 17-19, 1995, 1: 1297-1304
- 1995 Erdik, M., and Swift-Avci, J. Development of Earthquake Hazard and Damage Scenarios. Invited Overview Paper. In *Proceedings of the 5th International Conference on Seismic Zonation*, October 17-19 , 1995, Nice, France: 3
- 1995 Celebi, M., Erdik, M., and Avci (Swift), J. Observations on the effects of surface geology on ground motion: Erzincan (Turkey) earthquake of March 13 1992. In *Proceeding of the Tenth European Conference on Earthquake Engineering*, August 29 - September 2, 1994, Vienna, Austria. A.A. Balkema, Amsterdam, 4: 2599-2605
- 1995 Erdik, M., Avci (Swift), J. and Durukal, E. Microzonation for Earthquake Hazards in Urban Areas. In *Proceedings of the 7th International Conference on Soil Dynamics and Earthquake Engineering*, May 24-26, 1995, Chania, Crete, Greece
- 1995 Avci (Swift), J.S., and Erdik, M. Earthquake Hazard Microzonation Methods. In *Proceedings of the 3rd National Earthquake Engineering Conference*, March 27-31, 1995, Istanbul, Turkey: 357-366
- 1995 Erdik, M., and Swift-Avci, J. Development of Earthquake Damage Scenarios. In *Proceedings of the 2nd International Conference on Seismology and Earthquake Engineering*, March 15-17, 1995, Tehran, Iran
- 1994 Avci (Swift), J.S., and Erdik, M. Microzonation of Istanbul for Earthquake Hazards. A Refined Microzonation Technique. In Savidis, S.A. (Ed.) *Proceedings of the 2nd International Conference on Earthquake Resistant Construction and Design*, June 15-17, 1994, Ercad, Berlin: 135-141
- 1994 Erdik, M., Işıkara, A., Avci (Swift) J., and Durukal, E. Developing an Earthquake Disaster Masterplan for Istanbul. *World Conference on Natural Disaster Reduction*, May 23-27, 1994, Yokohama, Japan: 158-159
- 1987 Perry, E.C., Swift, J. N., and Villasuso-Pino, M. Carbonate Platform Accretion by Cementation of Ribbons of Dune Sediments, Yucatan, Mexico. *AAPG Bulletin* 71:5

Other Publications

- 2007 Newell, J., Sister, C., Wolch, J., Swift, J., Ghaemi, P., Wilson, J., and Longcore, T. Creating Parks & Open Space Using Green Visions Planning Toolkit 1.0. Prepared for *USC GIS Research Laboratory and Center for Sustainable Cities Green Visions Plan*. September 2007: 76
- 2006 Ghaemi, P., Swift, J.N., Goldberg, D.W., and Wilson, J.P. Prototype Geographic Search and Query Tools for a Library Digital Archive. *ArcUser* 9(2): 30-32.
- 2005 Swift, J. Green Visions Data Release Protocol Version 2.0, Instructions for Naming, Storing and Publishing Green Visions Data. Prepared for *USC GIS Research Laboratory and Center for Sustainable Cities Green Visions Plan*. 1 December 2005: 18
- 2005 Swift, J. Green Visions SAGE Site Audit Assessment, Trimble Recon Esri ArcPad Application, Field Auditor's Manual. Prepared for *USC GIS Research Laboratory and Center for Sustainable Cities Green Visions Plan*. June 2005: 24
- 2005 Swift, J. Green Visions Clickable Map User's Manual. Prepared for *USC GIS Research Laboratory and Center for Sustainable Cities Green Visions Plan*. 9 February 2005: 12
- 2003 Swift, J. and Stepp, J.C. COSMOS Workshop on Archiving and Web Dissemination of Geotechnical Data. *COSMOS Newsletter*, Pacific Earthquake Engineering Research Center, Berkeley, CA: (6): 2-4
- 2001 Swift, J. and Brown, L. Microtremor Method (Number 2), Task 2.1, Geophysical Techniques. Consulting report prepared for Blackhawk GeoSciences, Golden Co, for Oyo Corp. of Japan: 9
- 2001 Nigbor, R.L., Swift, J.N., Bardet, J.-P., and Diehl, J. ROSRINE 5b: Recent Field Activities and Data Dissemination Efforts. *Pacific Earthquake Engineering Research Institute (PEER) Center News*. Berkeley, CA: 4(2): 10-11

Manuscripts Submitted or Under Construction

Cicero, C., and Swift J.N.. Living on the Edge: A Geospatial Analysis of Older Adults at Risk of Homelessness in Los Angeles. *Journal of Housing for the Elderly*. (article in progress)

Shook, E. Bowlick, F., Kemp, K., Ahlqvist, O., Carbajales, P., DiBiase, D. Kim, E.-K., Lathrop, S., Ricker, B., Rickles, P., Rush, J., Swift, S. and Wang, S. Cyber Literacy for GIScience: Toward Formalizing Geospatial Computing Education (article, *The Professional Geographer*, submitted 11/7)

Swift, J.N.. Programming Aspects of Web GIS. In *UCGIS Geographic Information Science and Technology Body of Knowledge (2017)* (article in progress)

Zipfel, R., Swift J.N. and Vos, R.. Network Accessibility and Population Change: Transportation in Tennessee 1830-2010. *Journal of Transport Geography* (article in progress)

PRESENTATIONS

Invited Presentations

- 2018 *Innovations in Teaching Interdisciplinary Graduate Practicums*, 2018 Esri Education Summit Plenary, San Diego, CA (to be presented July 7)
- 2016 *Major Issues in Teaching*, CyberGIS Curriculum Workshop for Synthesizing Education Materials, National Science Foundation (NSF), San Francisco, CA (April)
- 2015 *USC MS and Certificate GIST Programs and the Fifth Annual Geospatial Summit*, LA County Health GIS Quarterly Meeting, Los Angeles, CA (February)

- 2013 *Models of Online Learning: What's Old, What's New?* (Panel Presentation and Discussion) American Association of Geographers (AAG) Annual Meeting, Los Angeles, CA (April)
- 2012 *GIS and Spatial Thinking Across Disciplines*, Faculty Forum, USC Center for Scholarly Technology, University of Southern California, Los Angeles, CA (November)
- 2012 *GIS Education Programs* (Panel Presentation and Discussion), Second Annual Los Angeles Geospatial Summit (April)
- 2011 *Proximity Analysis Web Map Viewer*, Burden of Disease Workshop, Los Angeles, CA (October)
- 2005 *The Pilot COSMOS/PEER-LL Geotechnical Virtual Data Center*, Los Angeles Section Geotechnical Engineering Group, ASCE, Los Angeles, CA
- 2001 *Environmental Impact of Uncontrolled Solid Waste Disposal Practices in Turkey*, Department of Civil and Environmental Engineering, University of Southern California, Los Angeles, CA

Conferences and Workshops

- 2018 *Innovations in Teaching Interdisciplinary Graduate Practicums* (with Jennifer Swift*, Caroline Cicero, Annie Nguyen, Darren Ruddell, Tridib Banerjee, and Jennifer Ailshire), Session *Infusing GIS Across the University Campus*, Presentation EDUC 84, 2018 Esri Education Summit, to be presented July 7, San Diego, CA
- 2018 *Teaching CyberGIS to Undergraduates* (Paper), Session ID 11470, 2018 American Association of Geographers Annual Meeting (AAG) Annual Meeting, to be held April 10-14, New Orleans, LA
- 2018 *GI Science Education: Advancements in Teaching Spatial Databases* (Paper, with Co-Organizers An-Min-Wu* and Geri Miller, and Discussants Karen Kemp and Qunying Huang), Session ID 316, 2018 American Association of Geographers Annual Meeting (AAG) Annual Meeting, to be held April 10-14, New Orleans, LA
- 2018 *Responsive Urban Design Solutions Utilizing a GeoDesign Framework* (with Julian Herren*, Christian Rellve*, Grace Corsi*, Darren Ruddell, Jennifer Swift, Kimberly A. Miller, Marlene Caldera, and Myles Cockburn), Session ID 214, 2018 American Association of Geographers Annual Meeting (AAG) Annual Meeting, to be presented April 10, New Orleans, LA
- 2018 *SunSmart: Collaborative Civic Engagement and Service Learning Project* (Julian Herren*, Christian Rellve*, Grace Corsi*, Darren Ruddell, Jennifer Swift, Kimberly A. Miller, Marlene Caldera, and Myles Cockburn), 2018 Los Angeles Geospatial Summit, to be presented February 23, Los Angeles CA
- 2018 *Real-World Solutions with Geodesign* (with John P. Wilson*, Julian Herren*, Benjamin Friedman*, Christian Lance Rellve, Jennifer Swift, Darren Ruddell, Marlene Caldera, Kimberly A. Miller, and Myles Cockburn), Presentation 2018 GeoDesign Summit, January 25th, Redlands, CA
- 2017 *What is Spatial Science?* (with Ken Watson*), USC Careers in STEM Summer Series, USC Viterbi School of Engineering, USC Suzanne Dworak-Peck School of Social Work, and USC Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California, August 4th, Los Angeles, CA
- 2017 *Sun Protection Planning Using Geospatial Analysis* (with Nida Soe, Diana Kim, Loraine Escobedo, Myles Cockburn, Jennifer Swift*, Darren Ruddell, Kim Miller, and Marlene Caldera), Presentation UC 1878, 2017 Esri User Conference, July 10-14, San Diego, CA
- 2017 *CyberGIS Curriculum Development in Higher Education* (Paper Session Chair, with Co-Organizers Eric Shook and Daniel Goldberg), Session ID 27731, 2017 American Association of Geographers Annual Meeting (AAG) Annual Meeting, April 5-9, Boston, MA

- 2017 *Sun Exposure Reduction Recommendations for Elementary School Playgrounds in Los Angeles: A Service Learning Project for Undergraduates* (with Diana Kim*, Nida Soe*, Myles Cockburn, Kim Miller, Marlene Caldera, Loraine Escobedo, Jennifer Swift, and Darren Ruddell), Abstract ID 84408, 2017 American Association of Geographers Annual Meeting (AAG) Annual Meeting, April 5-9, Boston, MA
- 2017 *Alternative “SunSmart” Landscapes for Elementary School Playgrounds: A Geodesign Approach* (with Diana Kim*, Nida Soe*, Darren Ruddell, Myles Cockburn, Jennifer Swift, Marlene Caldera, Loraine Escobedo, and Kim Miller), Seventh Annual Los Angeles Geospatial Summit, February 24, Los Angeles CA
- 2016 *A Practical Approach to Overcoming Barriers to Teaching CyberGIS-Related Science and Skillsets in Undergraduate And Graduate Curricula*, Position Paper, CyberGIS Curriculum Workshop for Synthesizing Education Materials, National Science Foundation (NSF), April 2–3, San Francisco, CA
- 2016 *Teaching Web and Mobile GIS* (Panel Chair, Co-Organizer and Panelist), American Association of Geographers (AAG) Annual Meeting, April 1, San Francisco, CA
- 2016 *Teaching Programming in Spatial Sciences Curricula*, In Session: Advances in CyberGIS Education, 2016 American Association of Geographers (AAG) Annual Meeting, March 29, San Francisco, CA
- 2016 *Visualizing Journeys as Transections – An Innovative ArcGIS Toolbox* (with AJ Bengoa, Philip Ethington, Jennifer Swift* and Robert Vos), 2016 Esri Developer Summit, March 13, Palm Springs, CA
- 2014 *Student Projects: Emergency Response, Collector & ArcGIS.com*, 2014 Esri Education User Conference, July 13, San Diego, CA
- 2014 *Teaching Mobile GIS with Esri ArcGIS Runtime SDK for Android* (with Edward Pultar), 2014 Esri Education User Conference, July 12, San Diego, CA
- 2014 *Teaching Mobile GIS with Esri ArcGIS Runtime SDK for Android* (with Edward Pultar), 2014 Esri Education User Conference, July 12, San Diego, CA
- 2013 *ArcGIS Server Hosted on Local Virtual Machines vs Cloud* (with Flora Paganelli), 2013 Esri Education User Conference, July 9, San Diego, CA
- 2013 *Modeling Coffee-Berry-Borer (CBB) Establishment and Spread in Hawaii with Python* (with Flora Paganelli* and Karen Kemp), 2013 Esri User Conference, July 10, San Diego, CA
- 2013 *The Impact of Web and Mobile GIS on How We Teach*, American Association of Geographers (AAG) Annual Meeting, April 13, 2013, in Los Angeles, CA
- 2012 *At the Forefront: GIST Graduate Programs Spatial Sciences Institute (SSI) @ USC*, Los Angeles County GIS Day, November 14, Los Angeles, CA
- 2012 *USC Beta Tests Esri’s ArcGIS Server Campus Edition” Online Courses*, 2012 Esri Education User Conference, July 21-22, San Diego, CA
- 2012 *Pedagogical Challenges Adapting Graduate Geography Courses to Online Curriculums*, American Association of Geographers (AAG) Annual Meeting, April 25, 2012, New York
- 2010 *Desktop Management Simplified With Desktop Virtualization – USC GIST Graduate Program*, Texas Community College Technology Forum 2010, Collin College, Plano, TX
- 2010 *Advanced Technologies in the Virtual Classroom - University of Southern California Geographic Information Science and Technology (GIST) Graduate Program*, CUNY 9th Annual IT Conference 2010, John Jay College of Criminal Justice, New York
- 2009 *Mapping the Health Risks of NOx Traffic Emissions for Schools in Los Angeles County*, Association of Pacific Coast Geographers, San Diego, California (with Kevin Kelly*, Austen Lee*, Ryan Drap* and Juan Morales, Stephen Koletty and John Wilson)

- 2007 *Green Visions Digital Soil Map*, Association of Pacific Coast Geographers, Long Beach, California (with Sonia Lam* and John Wilson)
- 2007 *The Systematic Audit of Green Space Environments*, 4th TREC (Transdisciplinary Research in Energetics and Cancer) Center's Scientific Meeting, Pasadena, California (with Jennifer Wolch*, Jason Byrne, Mona Seymour, Allison Linder, Chona Sister, and Kim Reynolds)
- 2007 *Comprehensive Digital Soil Map for the Los Angeles Metropolitan Area*, Los Angeles Geographic Society Annual Student Presentations, Los Angeles, California (with Sonia Lam*, John Wilson and Jennifer Wolch)
- 2007 *Decision-Support Web Tools for the Green Visions Plan for 21st Century Southern California*, Annual Meeting of the Association of American Geographers, San Francisco, California (with Parisa Ghaemi*, Travis Longcore, Jennifer Wolch, and John Wilson)
- 2007 *Utilizing park congestion to guide park and open space acquisitions across the Los Angeles Metropolitan region*, Active Living Research Annual Conference 2007, Coronado, California (with Chona Sister*, Parisa Ghaemi, John Wilson, and Jennifer Wolch)
- 2006 *Place-Based Decision Support for Spatial and Temporal Transference of Risk and Hazards*, National Science Foundation Human and Social Dynamics Program Principal Investigator Meeting, Washington DC (with John Wilson* and Zaria Tatalovic)
- 2006 *Establishing connectivity between the COSMOS Geotechnical Virtual Data Center and the COSMOS Virtual (Strong Ground Motion) Data Center*, 100th Anniversary Earthquake Conference Commemorating the 1906 San Francisco Earthquake, Meeting, Session "Beyond ANSS", San Francisco, California (with Melinda Squibb, Ralph Archuleta, Jamison Steidl and Carl Stepp) Abstract No. 876
- 2005 *Development of International Data Standards for the COSMOS/PEER-LL Virtual Data Center*, American Geophysical Union Annual Meeting, San Francisco California (with J.P. Bardet, J. Benoit, J. Bobbitt, R. Borchardt, Y. Bozorgnia, S. Corona, R. Chandler, C. Hannenian, M. Hoit, T. Lefchik, M. McVay, R. Nigbor, B. Owen, D. Ponti, H. Ratzesberger, C. Real, M. Riemer, T. Shantz, T. Spink, J.C. Stepp, K. Stokoe, L. Turner, and D. Wilson)
- 2005 *Technical overview of the Geotechnical Virtual Data Center (GVDC)*, Requirements for becoming a data provider, Workshop for Implementation of COSMOS/PEER-LL GVDC , Richmond CA
- 2005 *Becoming a Data Provider: CGS Experience*, Workshop for Implementation of COSMOS/PEER-LL GVDC, Richmond CA (with Charles Real and Terilee McGuire)
- 2005 *Assessment of Historic Building Inventory and Code Policies in Los Angeles: 1950-2005*, SCEC Annual Meeting, Palm Springs, California (with Zaria Tatalovic, John Wilson , Thomas Jordan, and Mark Benthien)
- 2004 *COSMOS/PEER-LL Archiving and Web Dissemination of Geotechnical Data*, 2004 SCEC Annual Meeting, Palm Springs, California (Loren Turner, Jean Benoit, Daniel Ponti, John Bobbitt, Charles Real, Joe Futrelle, Cliff Roblee, Carl Stepp, and Paul Grimes, Sean Devlin, Alexei Peters, and Joseph Castro)
- 2004 *Demonstration of the COSMOS-PEER Pilot Geotechnical Data Dissemination System and Databases*, COSMOS Workshop on Data Archiving and Web Dissemination of Geotechnical Data II, Newport Beach, CA
- 2004 *Archiving and Web Dissemination of Geotechnical Data II*, COSMOS/PEER-LL 2L02, 2004 PEER Annual Meeting, Palm Springs, California (with Stepp, Jean Benoit, Loren Turner, John Bobbitt, Daniel Ponti, Paul Grimes, Joe Futrelle, Cliff Roblee, and Charles Real)

- 2004 *COSMOS/PEER-LL 2L02 Archiving and Web Dissemination of Geotechnical Data II*, SCEC GIS/Mapping Workshop, University of Southern California, Los Angeles, California (with Carl Stepp)
- 2003 *Archiving and Web Dissemination of Geotechnical Data*, 2003 COSMOS Annual Meeting, Richmond, CA (with Carl Stepp, Loren Turner, Jean Benoit, and Cliff Roblee)
- 2003 *Spatial modeling of liquefaction-induced ground deformation*, Joint Workshop on US-Japan Cooperative Research in Urban Earthquake Disaster Mitigation, Long Beach, California (with J.P. Bardet*, Jianping Hu)
- 2002 *COSMOS/PEER-LL 2L02 Archiving and Web Dissemination of Geotechnical Data II*, 2002 SCEC Annual Meeting, Oxnard, California (with Carl Stepp, Jean Benoit, and Loren Turner)
- 2002 *Demonstration of development of Centrifuge Data Model for NEESGrid*, NEES Awardee Meeting, University of California San Diego, Supercomputer Center, San Diego, California (with J.P. Bardet*, Joe Futrelle, Bruce Kutter)
- 2001 *ROSRINE: Continuing Field and Data Dissemination Activities*, 2001 SCEC Annual Meeting, Oxnard, California (with Robert Nigbor*)
- 2001 *Characterization of US Sites: ROSRINE 5B, PEER Lifelines Research Project 2A01 – Site Response*, 2001 PEER Annual Meeting, Oakland California (with Robert Nigbor* and John Diehl)
- 2001 *Ground Deformation During the 1999 Kocaeli and Duzce Turkey Earthquakes, PEER Lifelines Research Project 3A01 – Permanent Ground Deformation*, 2001 PEER Annual Meeting, Oakland, California (with J.P. Bardet * and Jianping Hu)
- 1997 *Earthquake Hazard Scenario Development: Evaluation of Soil Liquefaction Potential Utilizing GIS: Pilot Study in Istanbul, Turkey*, International Association of Seismology and Physics of the Earth's Interior (IASPEI) 1997, 29th General Assembly, University of Macedonia and Congress Center of HELEXPO, Thessalonici, Greece (with Tuna Onur and Mustafa Erdik*)
- 1996 *Seismic Microzonation and Development of an Earthquake Damage Scenario for Istanbul, Turkey*, ASCE Natural Disaster Reduction International Conference and Exposition, Washington DC (with Mustafa Erdik*)
- 1996 *Developing an earthquake damage scenario for Istanbul*, Earthquake Research in Turkey, State of the Art, Ankara, Turkey (with Mustafa Erdik*)
- 1996 *Development of earthquake hazard and damage scenarios*, IDNDR Partners in action: An example from Turkey, United Nations Secretariat IDNDR (International Decade for Natural Disaster Reduction), DHA, Habitat II, Istanbul, Turkey, (with Mustafa Erdik)
- 1995 *Development of Earthquake Disaster Masterplans in Urban Areas*, XXI IUGG General Assembly, Boulder, Colorado (with Mustafa Erdik*)
- 1994 *A Pilot Earthquake Hazard Scenario for Istanbul: Evaluation of the Ground Motion Amplification Hazard Based on a Microzonation Technique*, European Seismological Commission XXIV General Assembly, Athens, Greece (with Mustafa Erdik*)
- 1994 *Assessment of Site Effects in Erzincan Using Microtremor Measurements*, European Seismological Commission XXIV General Assembly, Athens, Greece (with Mustafa Erdik* and Kemal Beyen)
- 1994 *Earthquake Hazard Scenario: Evaluation of Ground Motion Amplification Based on a Microzonation Technique*, European Geophysical Society XIX General Assembly, Grenoble (with Mustafa Erdik*)

- 1987 *Cementation Processes of Modern Yucatan Carbonates as Analogs to Lithification of Paleozoic Platform Carbonates*, GSA Abstracts with Programs 19:4 (with Eugene Perry and Miguel Villasuso-Pino)

Webinars

- 2017 *Integrated Teaching Components in the USC SSI Private Cloud and AWS*, Esri Webinar, EDC International Community (EDCIC) Web Meeting Session: Teaching ArcGIS Enterprise (Sep. 13, 2017)
- 2015 *Transforming the Energy and Utilities Industries with GIS*, USC GIST Webinar, USC-Embanet-Compass (with Gary Mgeryan*, Miriam Navarro* and Chad Johnson*) (Nov. 4, 2015)
- 2015 *USC's GIST MS Programs: Spatial Application Development Track*, USC GIST Webinar, USC-Embanet-Compass (with Matt Sheehan* and Andy Gup*) (April 15, 2015)
- 2013 *USC GIST Graduate Programs' Course and Technology Demo*, USC GIST Webinar, USC-Embanet-Compass (with Daniel Warshawsky *) (July 31, 2013)
- 2013 *Meet the Faculty - New Track Focus*, USC GIST Webinar, USC-Embanet-Compass (with Darren Ruddell*, Karen Kemp* and Darlene Lakes*) (June 5, 2013)
- 2012 *Creating an Outstanding Resume - A Guide for GIST Graduates*, USC GIST Webinar, USC-Embanet-Compass (with Jennifer O'Connor* and Robyn MacNab*) (October 23, 2012)
- 2012 *Introduction to USC Career Services & What We Do - Helping GIST Graduates Find Jobs & Internships*, USC GIST Webinar, USC-Embanet-Compass (with Denise Johnson*) (October 2, 2012)
- 2012 *Using Los Angeles Regional Imagery Acquisition Consortium (LAR-LAC) Data in GIST Courses and MS Thesis Research*, USC GIST Webinar, USC-Embanet-Compass (with David Peck*) (July 10, 2012)
- 2012 *Introducing Los Angeles Regional Imagery Acquisition Consortium (LAR-LAC) Data*, USC GIST Webinar, USC-Embanet-Compass (with Mark Greninger* and Daniel Goldberg) (March 22, 2012)
- 2011 *Required Courses: A Closer Look at USC GIST Programs' Required Courses*, USC GIST Webinar, USC-Embanet-Compass (with Karen Kemp, Darren Ruddell, Erin Ketchum and Robyn MacNab) (September 27, 2011)
- 2011 *Meet the Faculty: An Introduction to the Faculty Members of GIST*, USC GIST Webinar, USC-Embanet-Compass (with Jordan Hastings and Darren Ruddell) (August 23, 2011)
- 2010 *USC Geographic Information Science and Technology (GIST) Online Graduate Programs*, Geospatial Jobs and the 2010 Economy - Directions Magazine Online Webinar (January 21, 2010)

GRANTS AND CONTRACTS

- 2017-2018 *Age-Friendly Los Angeles Practicum: Addressing the Interdisciplinary Wicked Problems of Lifespan Health, Aging, and Dementia*, Co-PI C. Cicero, Leonard Davis School of Gerontology, and Co-PI J.N. Swift, Spatial Sciences Institute, Participating Faculty A. Nguyen, Keck School of Medicine, University of Southern California, T. Banerjee, Sol Price School of Public Policy, D.M. Ruddell, Spatial Sciences Institute, and J. Ailshire, Leonard Davis School of Gerontology, USC Vice Provost for Academic and Faculty Affairs and Associate Provost for Faculty and Student Initiatives in the Social Sciences Wicked Problem Practicum (WPP); \$30,678 (Fall-Spring).
- 2017-2018 RTCP Faculty Development Grant, Spatial Sciences Institute, University of Southern California (\$1,500)
- 2017-2018 *SunSmart and GeoDesign: A Pathway for Human and Community Health - Phase 2*, PI J.N. Swift and Co-PI D.M. Ruddell, Spatial Sciences Institute, Co-PI Co-PI M.G. Cockburn, Preventive Medicine, USC/Keck School of Medicine, University of Southern California, USC Undergraduate Research Associates Program (URAP); \$7,400 (Fall-Summer)

- 2016-2017 RTCP Faculty Development Grant, Spatial Sciences Institute, University of Southern California (\$1,500)
- 2016-2017 *SunSmart and GeoDesign: A Pathway for Human and Community Health*, PI J.N. Swift and Co-PI D.M. Ruddell, Spatial Sciences Institute, Co-PI Co-PI M.G. Cockburn, Preventive Medicine, USC/Keck School of Medicine, University of Southern California, USC Undergraduate Research Associates Program (URAP); \$6,400 (Fall-Summer)
- 2011-2012 *USC GIST Courses and Program Development*, NTT Faculty Development Grant, Spatial Sciences Institute, University of Southern California (\$1,500)
- 2009-2011 *Development of a Management System and Geographic Interface for Biological Resource Data*, PI T. Longcore, Spatial Sciences Institute, University of Southern California
- 2004-2010 *Place-based Decision Support for Spatial and Temporal Transference of Risks and Hazards*, Co-PIs J. Swift and T.R. Jordan Department of Earth Sciences, USC, PIs J. Wilson, Department of Geography, USC and S. Cutter, Department of Geography, University of South Carolina, Human and Social Dynamics Program, National Science Foundation; \$700,000
- 2008-2009 *Development and Testing of Geocoding Services for the Division of Cancer Prevention and Control*, Co-PI J. Swift, PI JP Wilson, Northrop Grumman and Centers for Disease Control and Prevention; \$130,000
- 2006-2009 *Establishing a National Geotechnical and Geophysical Virtual Data Center at USC*, PI J. Swift; University of Southern California WiSE (Women in Science and Engineering) Major Support for Faculty; \$15,000
- 2009 *Application to 2009 Summer Undergraduate Research Funds (SURF), Socio-economic Disparities in Health Costs of School Proximity to Major Transportation Networks*, USC Office of the College Dean (Summer)
- 2009 *Characterization of Traffic Proximity to Children and Associated Environmental Justice Socioeconomics*, PI J. Wilson, Department of Geography, University of Southern California, USC Undergraduate Research Associates Program (URAP); \$6,000 (Summer)
- 2005-2008 *Modification of the COSMOS-PEER LL Pilot GVDC System Architecture and Implementation, Task 2L03*; PI J. Swift, Department of Civil and Environmental Engineering, University of Southern California; COSMOS and PEER Program of Applied Earthquake Engineering Research on Lifeline Systems; \$25,650
- 2007 *The Development of Internet Map Services for the USC Library Digital Archive*; Research Staff J. Swift, PI J. Wilson, Department of Geography, University of Southern California; Information Development & Management, University of Southern California
- 2007 *Phase III of Green Visions Plan for 21st Century Southern California, a non-regulatory habitat conservation, watershed health, and recreation plan*; Co-PIs J. Wolch, J.P. Wilson, T. Loncore and J. Swift, Dept. of Geography, USC; Wildlife Conservation Agency; \$397,800
- 2007 *Proposal to USC Provost's Undergraduate Research Fellowship Summer 2007*; Southern California Soil Mapping and Soil Data Utilization in the USC GIS Research Laboratory; Awarded to Sonia Lam; USC Office of the Provost; \$ 3000 (Summer)
- 2007 *Collaborative Project: Development of a Web-Based Hydrologic Information System*; PI J. Wilson, Department of Geography, University of Southern California; USC Undergraduate Research Program; \$6,000 (Summer)
- 2006-2007 *Upper Los Angeles River: Recharge Suitability Analysis*; PI J. Wilson, Research Staff J. Swift, Department of Geography, University of Southern California; Mountains Restoration Trust; \$80,000

- 2006-2007 *Request for Research Experiences for Undergraduates (REU) Supplement to NSF HSD Award: Place-Based Decision Support for Spatial and Temporal Transference of Risk and Hazards*; NSF Proposal Number 0626440; PI J. Wilson, Department of Geography, University of Southern California; \$6,000
- 2003-2006 *Green Visions Plan for 21st Century Southern California: A Guide for Habitat, Watershed Management, and Recreational Open Space*; Research Staff J. Swift, Co-PIs John Wilson, T. Longcore and J. Wolch, Department of Geography and J. Devanny, Department of Civil and Environmental Engineering, University of Southern California; San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, Baldwin Hills Conservancy, Coastal Conservancy, and Santa Monica Mountains Conservancy; \$816,500 (multiple awards)
- 2005 *USC CIS (Collection Information Systems) Map Browser and Gazetteer: Integration of a map browser and gazetteer with the CIS Data Archive User Interface Module*; Research Staff J. Swift, PI: John Wilson. Collection Information Systems, University of Southern California
- 2001-2004 *Integrated Neesgrid Demonstrations on centrifuges, shake tables, field stations, and tsunamis*; Research Staff J. Swift, PI J.P. Bardet; \$323,390
- 2002-2004 *Development of Pilot Virtual Geotechnical Data Center, Task 2L0*; PI: J. Swift; COSMOS and PEER Program of Applied Earthquake Engineering Research on Lifeline Systems; \$64,953
- 2002-2003 *Archiving and Web Dissemination of Geotechnical Data, Task 2L0*; PEER Program of Applied Earthquake Engineering Research on Lifeline Systems; Co-PI: J. Swift, PI: Carl Stepp, Co-PI: Bruce Bolt; \$29,612
- 2001 *PG&E-PEER Program of Applied Earthquake Engineering Research on Lifeline Systems, Task 3A04 - Update Database for Liquefaction Data*, PI J.P. Bardet
- 2000-2001 *PEARL-PEER Program of Applied Earthquake Engineering Research on Lifeline Systems, Task 2A01- Characterization of US Sites: ROSRINE (Resolution of Site Response Issues in the Northridge Earthquake), 5b*, Research Staff J. Swift, P.I.: R.L. Nigbor
- 2000 *PG&E-PEER Program of Applied Earthquake Engineering Research on Lifeline Systems, Task 3A01 - Ground Deformation Due to Surface Faulting and Liquefaction During the 1999 Kocaeli and Duzce, Turkey, Earthquakes*; Research Staff J. Swift, P.I.: J. P. Bardet
- 1996 *Workshop on GIS (Geographic Information Systems) and Major Hazards*, European Center for Geodynamics and Seismology, Walferdange, Luxembourg; Grant to Attend
- 1995 *Grant to attend 5th International Conference on Seismic Zonation*; Nice, France; National Science Foundation
- 1995 *Grant to attend 11th Course of International School of Solid Earth Geophysics*, Ettore Majorana, Erice, Italy
- 1986-1989 *Graduate and Professional Opportunities Fellowship (G*POP)*, Northern Illinois University, Dekalb, Illinois
- 1986-1987 *S.S. Goldich Research Grants*; Department of Geology, Northern Illinois University, Dekalb, Illinois

TEACHING

Courses Taught

University of Southern California (2001 to present)

SSCI 214g: Human Populations and Natural Hazards (co-developer)

SSCI 382L: Principles of Geographic Information Science (co-developer)

SSCI 383L: Geospatial Modeling and Customization (lead)

SSCI 581/GEOG 581: Concepts for Spatial Thinking (co-developer)
SSCI 582: Spatial Databases (lead)
SSCI 586: GIS Programming and Customization (co-developer)
SSCI 591: Web GIS (lead)
SSCI 599: Special Topics: Geospatial Technology Project Management (1st offering)

Bogazici University (1996-1999)

EQE 695.01: Special Topics in Earthquake Engineering: GIS (Geographic Information Systems) Applications (lead)

Theses Supervised

University of Southern California, M.S., Geographic Information Science and Technology

- 2017 Trevor Denson
Thesis Title: Majestic Yosemite Hotel Virtual Tour Application and Indoor Model
- 2017 Ryan Mock
Thesis Title: *San Diego Wildfire Hazards Information Center Mashup*
- 2017 Samantha Tucker
Thesis Title: *Accessing Hard Maps and Associated Digital Components: A Case Study of the U.S. Library of the Marine Corps*
- 2017 Katherine Wright
Thesis Title: *Web GIS as a Disease Management Workspace: Enabling Advocacy at Multiple Scales Across Multiple Continents with the Case of Tungiasis*
- 2016 Michael J. Barnett
Thesis Title: *Web GIS and Landslide Hazard Modeling: A Study on Integration of Real Time Data and Communication of Risk*
- 2016 Bryan Phillip Fitzpatrick
Thesis Title: *Unmanned Aerial Systems for Surveying and Mapping: Cost Comparison of UAS Versus Traditional Methods of Data Acquisition*
- 2016 Matthew Kline
Thesis Title: *Modeling Potential Impacts of Tsunamis on Hilo, Hawaii: Comparison of the Joint Research Centre's Schema and FEMA's HAZUS Inundation Scenarios*
- 2016 Allyson Wyndham
Thesis Title: *Development of a Mobile GIS High-Water Mark Data Collection Application for the Mississippi River Basin*
- 2015 Jason Gonzalez
Thesis Title: *Visualizing Email Response Data to Improve Marketing Campaigns*
- 2015 Kacey Johnson Pham
Thesis Title: *GIS Data Curation and Web Map Application for LA Brea Tar Pits Fossil Occurrences in Los Angeles, California*
- 2015 Ruth A. Zipfel
Thesis Title: *Network Accessibility and Population Change: Historical Analysis of Transportation in Tennessee, 1830-2010*

- 2014 Jennifer Dowling
Thesis Title: *Finding Your Best-Fit Neighborhood: A Web Application for Online Residential Property Searches for Anchorage, Alaska*
- 2014 Daniel Gerard
Thesis Title: *Visualizing Sporting Event Temporary Flight Restrictions*
- 2014 Diego Vasquez
Thesis Title: *Geological Modeling in GIS for Petroleum Reservoir Characterization and Engineering: A 3D GIS-Assisted Geostatistics Approach*
- 2014 Christopher Weidemann
Thesis Title: *Geosocial Footprint (2013): Social Media Location Privacy Web Map*
- 2013 Raymond Dominic Maldonado
Thesis Title: *Wrong Way Driving in San Antonio, Texas: A Transportation Route Study Using Network Analyst*
- 2013 Michael Wahl
Thesis Title: *Mapping Native Plants: A GIS-based Mobile Application for Everyone*
- 2012 Matthew W. Davis
Thesis Title: *The Modifiable Areal Unit Problem (MAUP) via Cluster Analysis Methodologies: A Look at Scale, Zoning, and Instances of Foreclosure in Los Angeles County*

Committee Member

University of Southern California, M.S., Geographic Information Science and Technology

- 2018 Drew Cover
- 2017 Bailey Baumann, Shanna Bressie, Philip Conner, Keith Darby, Melodie Grubbs, Charles Hall, Sheldon Jessup, Neil Stone, Angela Woods, Alvin Yeung
- 2016 Anne Jeanene (AJ) Bengoa, Brandon Blee, Cynthia Burrows, Crystal Curtis, Megan Gosch, Heather Kelley, Ebrahim Khan, Brian McDonald, Nancy McMahon, Krista McPherson, Sarah Moreland, Mary Nienkamp, Nathan Novak, James Ray, Jared Reid, David Robert Scobie, Benjamin A. Suber, Jennifer Titus
- 2015 Jeffrey Block, Antonio Cotroneo, Jimmy Dao, Caitlan Dowling, Mark Dustin, Annabel Lee Enriquez, Sarah Gehring, Mallory Graves, Reina Kahn, Ryan Reeves, Joel Rodriguez, Rachel Rodriguez, Christie Root, Audra Smolek, Kathy Ulloa
- 2014 Haynes Bunn, Andrew Isner, Gina Kiani, Nancy Milholland, James Rivera
- 2013 Heidi Crow, Devon R. Munsell, Kathy Thompson, Jeffrey D. Harrison
- 2012 Russell M. Abbott, Brice Cameron Burkett, Stephen O. Gervais, Andrew L. Stickney
- 2011 Ronald G. Lehman
- 2010 Teri L. Mooney

University of Southern California, M.S., Geography

- 2014 Claudia E. Avendano

External Ph.D. Committee Member

- 2012 Olson-Shelton, Jeremy, Doctor of Policy, Planning, And Development, USC Sol Price School of Public Policy , University of Southern California
Dissertation Title: *The spatial economic impact of live music in Orange County, CA*

COMMITTEES AND SERVICE

- 2018 Chair, MS Thesis Prize Committee, Spatial Sciences Institute, University of Southern California
- 2017-2018 Member of the University of Southern California Convocations Committee
- 2017 Interim Vice Chair, California Geographic Information Association (CGIA)
- 2017 Column Marshall, University of Southern California Convocation Ceremony
- 2017 Column Marshall, University of Southern California Commencement Ceremony & Dornsife College of Letters Ceremonies, Arts & Sciences
- 2016-2018 Secretary, California Geographic Information Association (CGIA)
- 2016-2018 USC GeoScavage Supervising Faculty, USC Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California (May, September and October)
- 2016-2017 Member of the Provost's Advisory Committee on Work and Family Life, University of Southern California
- 2016 Member of the Non-tenure track Promotion Personnel Committee, Spatial Sciences Institute, University of Southern California (November)
- 2016 Member of a Graduate Programs Curriculum Review, on behalf of the Spatial Sciences Institute, University of Southern California (October)
- 2016 Member of the Non-tenure track Promotion Personnel Committee, USC Dana and David Dornsife College of Letters, Arts and Sciences, University of Southern California (March)
- 2016 Peer Lecture Observation, SSCI 581, Katsuhiko Oda, Spatial Sciences Institute, University of Southern California (November)
- 2016 Peer Lecture Observation, SSCI 265, Jason Post, Spatial Sciences Institute, University of Southern California (March)
- 2016 Provost/Senate Academic Retreat, University of Southern California (February)
- 2015-2017 Member of the Committee on Work and Family Life, University of Southern California
- 2015 Member of the Spatial Sciences Fall Forward Planning Committee, University of Southern California
- 2015 Chair of the Non-tenure track faculty Evaluation committee, Spatial Sciences Institute, University of Southern California (October)
- 2015 Member of the Faculty Consultative Committee for the Selection of Spatial Science Program Director, University of Southern California (December)
- 2015 Member of the Non-tenure track Faculty Search Committee, Spatial Sciences Institute, University of Southern California (November)
- 2015 Peer Lecture Observation, SSCI 301, Lisa Sedano, Spatial Sciences Institute, University of Southern California (September)
- 2015 Member of the GIS Education Community Advisory Board, Esri Education User Conference, San Diego CA (July)
- 2015 Workshop on Academic Computing at USC, Attendee, University Research Committee (URC) and the Office of Research, University of Southern California (May)
- 2015 Member of the Spatial Sciences Institute GIST MS Thesis Prize Committee, University of Southern California (April)

- 2014-2018 Board of Directors, California Geographic Information Association (CGIA)
- 2014-2018 Member of Education Committee, University Consortium for Geographic Information Science (UCGIS)
- 2014-2017 Member of SSCI 594a Thesis Juries
- 2014 Non-tenure track faculty search committee, Spatial Sciences Institute, University of Southern California
- 2013-2015 Member of the USC Spatial Sciences Institute Executive Committee, University of Southern California
- 2013 Member of the Associate Director Search Committee, Spatial Sciences Institute, University of Southern California
- 2012-2013 Co-Chair, USC Spatial Sciences Institute Spatial Roundtable, University of Southern California
- 2012 Non-tenure track faculty search committee, Spatial Sciences Institute, University of Southern California
- 2011-2017 Member of the B.S. GeoDesign Undergraduate Committee, University of Southern California
- 2011-2016 Marshall, University of Southern California Commencement Ceremony & Dornsife College of Letters Ceremonies, Arts & Sciences
- 2005-2006 Member of Task Force on Graduate Education, University of Southern California
- 2004 Member of Organizing Committee, COSMOS Workshop on Data Archiving and Web Dissemination of Geotechnical Data II, June 21-23, 2004, Newport Beach, CA
- 2003 Member of Organizing Committee, Workshop on COSMOS Data Archiving and Web Dissemination of Geotechnical Data, October 4-5, 2001, PEER Center, Richmond, CA

ACADEMIC REVIEWS

Journal Reviews

Applied Geography
 Cartography and Geographic Information Science
 Earthquake Spectra
 GIS&T Body of Knowledge 2.0
 International Journal of Digital Earth
 International Journal of Geo-Information
 Journal of Higher Education
 Transactions in GIS

Proposal Reviews

US Geological Survey NEHRP Proposal Panels

PROFESSIONAL SOCIETY MEMBERSHIPS

Association for Women Geoscientists (AWG)
Association of American Geographers (AAG)
American Society of Civil Engineers (ACSE)
American Geophysical Union (AGU)
Consortium of Organizations for Strong-Motion Observation Systems (COSMOS)
Earthquake Engineering Research Institute (EERI)
Los Angeles Aging Advocacy Coalition (LAAAC)
National Association of Professional Women (NAPW)
Network for Earthquake Engineering Simulation (NEES) Consortium, Inc.

APPLICATION DEVELOPMENT

- 2012 Swift, J. and Wilson, J. *Multi-disciplinary group project quantifying neighborhood scale traffic emissions in Southern California*. Pilot proximity analysis web map viewer, Esri ArcGIS Server and Flex
- 2009 Swift, J. and Wilson, J. *USC Geportal*, USC GIS Research Lab website
- 2009 Swift, J. and Stepp, J.C. *COSMOS/PEER-LL Geotechnical Virtual Data Center (GVDC)* website
- 2007 Wilson, J., Swift, J., Wolch, J., Longcore, T., and Ghaemi, P. *Green Visions Decision Support Web Tools* website
- 2005 Wilson, J., Swift, J., Ghaemi, P., Goldberg, D., and Stanton, T. *Geobrowser Demonstration for El Segundo, California, Integrated with the Digital Information Management Collection Information Systems*, Information Services Division, USC Digital Library Archive website
- 2005 Swift, J., Wolch, J., and Wilson, J. *Green Visions SAGE Site Audit Assessment - Trimble Recon*, Esri ArcPad recreational and open space field data collection application
- 2005 Wolch, J., Wilson, J., and Swift, J. *Green Visions SAGE Site Audit Assessment* website
- 2005 Wolch, J., Wilson, J., Chen, H. and Swift, J. *Green Visions Plan Library* website
- 2004 Swift, J., and Stepp, J.C. *COSMOS/PEER-LL Geotechnical Virtual Data Center* website
- 2003 Swift, J. and Vaughan, D. *California Geological Survey SHMP WebMap Project*, Geotechnical Data Delivery Development website
- 2001 Bardet, J.-P., Swift, J., and Hu, J. *Information Database on the Geotechnical Earthquake Engineering Reconnaissance of the 1999 Kocaeli and Duzce Earthquakes* (Turkey)
- 2001 Bardet, J.-P., Hu, J. and Swift, J. *Mw 7.7 Earthquake in India on January 26, 2001*, Spatial database of photos from post-earthquake reconnaissance, Internet Map Service website
- 2000 Swift, J. N., Nigbor, R. L., Bardet, J.-P., and Hu, J.-P. *ROSRINE Website*, ROSRINE Resolution of Site Response Issues from the Northridge Earthquake website
- 1996 Swift, J., Barka, A.A., and Erdik, M. *Integrated geologic and geotechnical GIS for Earthquake Disaster Planning, for Izmir, Turkey*, MapInfo-dBase spatial analysis application

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Last updated, 3/9/2018