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Conghe Song

Personal Information

Associate Professor
Department of Geography
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Education

2001: Ph.D., Geography, Boston University, Boston, MA, USA
1991: M.S., Forest Ecology, Beijing Forestry University, P. R. China
1988: B.S., Forestry, Anhui Agricultural University, P. R. China

Professional Experience

2007-present: Associate Professor of Geography, UNC, Chapel Hill, NC
2001-2007: Assistant Professor of Geography, UNC, Chapel Hill, NC.
2005-2006: Charles Bullard Fellow in Forest Research, Harvard Forest, Harvard University
1997-2001: Graduate Research Assistant, Boston University, Boston, MA.
1995-1997: Graduate Research Assistant, Michigan Technological University, Houghton, MI.
1991-1995: Lecturer, Beijing Forestry University, Beijing China.
1988-1991: Graduate Research Assistant, Beijing Forestry University, Beijing, China.

Honors

2006: New Investigator's Program Award, National Aeronautics and Space Administration.
2005-2006: Charles Bullard Fellow, Harvard Forest, Harvard University.
2005-2007: Guest Professor, Beijing Normal University, Beijing, China.
2004: Junior faculty development award, UNC Chapel Hill.
2001: Finalist of Nystrom Dissertation Competition, Association of American Geographers.
2000: Honorable membership to Sigma Xi Research Society, Boston University Chapter.

Grants and Awards

Extramural Grants and Awards

Impacts of Land-cover/land-use change on terrestrial ecosystem carbon budget. PI: Conghe Song.
National Aeronautics and Space Administration, \$350,000. 08/01/06-07/31/09.

Charles Bullard Fellowship in Forest Research, Harvard University. \$40,000. 09/01/2005-05/31/2006.

Understanding Effects of Stand Structure on the Propagation of Photosynthetically Active Radiation (PAR) Through Forest Canopies. PI: Conghe Song, Co-I: Matthew Dickinson. USDA Forest Service. \$7,500. 05/01/05-04/30/06.

Mapping Landscape Forest Canopy Structure with High Resolution Satellite Imagery. PI: Conghe Song, Co-I: Matthew Dickinson. \$159,819. USDA Forest Service Agenda 2020, (\$120,000) and UNC Chapel Hill (\$39,819). 01/01/05-12/31/07.

Recovering missing data of Landsat 7 ETM+ imagery due to SLC-off from overlapping scenes. PI: Conghe Song. \$24,998. National Aeronautics and Space Administration. 05/01/04-04/30/05.

Scaling up Forest Ecosystem Carbon Budget from Stand to Landscape: Impacts of Forest Structures. PI: Conghe Song, Co-PI: Lawrence Band, Collaborators: Ram Oren, Gabriel Katul, \$159,950, National Science Foundation, 05/01/04-04/30/07.

Attenuation of non-point source pollution in a coastal watershed: Implications for nutrient management. PI: Michael F. Piehler, Co-I: Hans W. Pearl, Stephen C. Whalen, Lawrence E. Band, and Conghe Song. \$550,000, EPA, 2002-2005.

Population-Environment interrelationships in urban areas in Thailand. PI: Walsh, S. J., CO-I: Entwisle, B., Rindfuss, R. R., Prasartkul, P., Rohe, W. and Song, C. \$100,000. Mellon Foundation, 09/01/2002-08/31/2005.

Internal Grants and Awards from UNC Chapel Hill

Human-Environment Interactions: Impacts of Rural-to-Urban Migration on Land-Use/Land-Cover Change (LCLUC) in the rural area in China. PI: Conghe Song, \$6,000. College of Arts and Sciences, UNC Chapel Hill. May 1, 2008-April 30, 2009.

Understanding factors of uncertainty in remote sensing for monitoring forest succession. PI: Conghe Song. \$3748., Office of Research Services, University of North Carolina at Chapel Hill. December 1, 2001-Nov. 30, 2003.

2004 Junior Faculty Development Award, University of North Carolina at Chapel Hill. \$5000. 01/01/2004-12/31/2004.

Understanding Land-Use/Land-Cover Change in the Brazilian Cerrado. Conghe Song and Wendy Wolford, \$4000., Office of Research Services, University of North Carolina at Chapel Hill. December 15, 2003-Nov. 30, 2005.

Publications

Peer-Reviewed Publications

Conghe Song , Gabriel Katul, Ram Oren, Lawrence E. Band, Christina L. Tague, Paul C. Stoy, Heather R. McCarthy, Impacts of Canopy Structure on Energy, Water and Carbon Fluxes in a Loblolly Pine Stand: Uniform vs. Gappy Canopies. *Agricultural and Forest Meteorology*, Under Review.

Conghe Song and Yuxing Zhang, The dynamics of Forests in China from 1949 to 2006. In: Nagendra, H. and Southworth, J. (Ed.) *Reforesting Landscapes: Linking Patterns and Processes*. Springer. Under review.

Song, C. Lord, W. J., Zhou, L. and Feng, J. Impacts of Internal Migration on Vegetation Dynamics in China from 1982 to 2000. *Sensors*, Revised and Resubmitted.

Song, C. and Dickinson, M. B. 2008. Extracting Forest Canopy Structure from Spatial Information of High Resolution Optical Imagery: Tree Crown Size and Leaf Area Index. *International Journal of Remote Sensing*, In Press.

Liu, W., C. Song, T. A. Schroder, and Cohen, W. B. 2008. Predicting Forest Successional Stages with Multitemporal Landsat Imagery and Forest Inventory and Analysis Data. *International Journal of Remote Sensing*, In Press.

Song, C. 2007. Estimating tree crown size with spatial information of high resolution optical remotely sensed imagery. *International Journal of Remote Sensing*, 28(15): 3305-3322.

Song, C., Schroeder, T. A. and Cohen, W. B. 2007. Mapping temperate conifer forest successional stage distributions with multitemporal Landsat Thematic Mapper imagery. *Remote Sensing of Environment*, 106:228-237.

Y. Zhang and Song, C. 2006. Impacts of afforestation, reforestation and deforestation on China's Forest Cover from 1949 to 2003. *Journal of Forestry*, 104(7): 383-387.

Schroeder, T. A., Cohen, W. B., Song, C., Canty, M. J. and Yang, Z. 2006, Radiometric correction of multi-temporal Landsat data for characterization of early successional forest patterns in western Oregon. *Remote Sensing of Environment*, 103: 16-26.

Song, C. 2006. Bayesian Spectral Mixture Analysis for Urban Vegetation. In: *Urban Remote Sensing*, Weng, Q. and Quattrochi, D., (eds), Taylor and Francis. ISBN: 0-8493-9199-7. CRC Press, Taylor & Francis Group, Boca Raton, Florida, USA.

Song, C. 2005. Spectral mixture analysis for subpixel vegetation fractions in the urban environment: How to incorporate endmember variability? *Remote Sensing of Environment*, 95(2):248-263.

- Song, C. 2004. Cross-sensor calibration between Ikonos and Landsat ETM+ for spectral mixture analysis. *IEEE Geoscience and Remote Sensing Letters*, 1(4):272-276.
- Song, C. and Band, L. E. 2004. MVP: a Model to simulate the spatial pattern of photosynthetically active radiation under discrete forest canopies. *Canadian Journal of Forest Research*, 34:1192-1203.
- Song, C. and Woodcock, C. E. 2003. Monitoring forest succession with multitemporal Landsat images: factors of uncertainty. *IEEE Transactions on Geoscience and Remote Sensing*, 41(11):2557-2567.
- Song, C. and Woodcock, C. E. 2003. Estimating tree crown size from Multiresolution remotely sensed imagery. *Photogrammetric Engineering and Remote Sensing*, 69(11):1263-1270.
- Song, C. and Woodcock, C. E. 2003. A regional forest ecosystem carbon budget model: impacts of forest age structure and landuse history. *Ecological Modelling*, 164:33-47.
- Song, C. and Woodcock, C. E. 2002. The spatial manifestation of forest succession in optical imagery: the potential of multiresolution imagery. *Remote Sensing of Environment*, 82:272-285.
- Song, C., Woodcock, C. E. and Li, X. 2002. The spectral/temporal manifestation of forest succession in optical imagery: the potential of multitemporal imagery. *Remote Sensing of Environment*, 82:286-303.
- Seto, K. C., Woodcock, C.E., Song, C., Huang, X., Kaufmann, R. K., Lu, J. 2002. Measuring landuse change with Landsat TM: evidence from Pearl River Delta. *International Journal of Remote Sensing*, 23:1985-2004.
- Song, C., Woodcock, C. E., Seto, K. C., Pax-Lenney, M. and Macomber, S. A. 2001. Classification and Change Detection Using Landsat TM Data: When and How to Correct Atmospheric Effects? *Remote Sensing of Environment*, 75:230-244.
- Pax-Lenney, M., Woodcock, C. E., Macomber, S. A., Gopal, S. and Song, C. 2001. Forest mapping with a generalized classifier and Landsat TM data. *Remote Sensing of Environment*, 77:241-276
- Salvucci, G. D. and Song, C. 2000. Derived distribution of storm depth and frequency conditioned on monthly total precipitation: adding value to historical and satellite-derived estimates of monthly precipitation. *Journal of Hydrometeorology*, 1:113-120.
- He, Q. and Song, C. 1994. Effects of Forests on the budgets of water, energy and gases in the environment. *Journal of Beijing Forestry University (English Edition)*. 3:1-12.

Song, C. 1993. The application of Bowen ratio energy balance approach and its error analysis (In Chinese). *Journal of Hebei Forestry College*. 8:85-96.

Song, C., Zhai, B., Zhang, H. and Wang, W. 1992. A study of leaf areas and the light conditions in a Chinese pine Permanent Plot in Taiyue, Shanxi Province (in Chinese with English abstract). *Journal of Beijing Forestry University*. 14:164-170.

Zhai, B., Song, C., Zhang, H. and Wang, W. 1992. A study of biomass and productivity of a Chinese pine Permanent Plot in Taiyue, Shanxi Province (in Chinese with English abstract). *Journal of Beijing Forestry University*. 14:156-163.

Other Publications

Member of Group Author, 2004. Landsat 7 – Exaggerated Rumors of Its Demise. <http://landsat.gsfc.nasa.gov/main/slc.html>

Song, C., Woodcock, C. E. and Li, X. 2001. Manifestation of forest succession in optical imagery. IEEE 2001 International Geoscience And Remote Sensing Symposium (IGARSS), The University of New South Wales, Sydney, Australia, 9-13 July 2001.

Wang, P. X., Li, X. Gong, J. Y. and Song, C. 2001. Vegetation temperature condition index and its application for drought Monitoring. IEEE 2001 International Geoscience And Remote Sensing Symposium (IGARSS), 9-13 July 2001, The University of New South Wales, Sydney, Australia.

Song, C. 2000. Comments on China's forest policy for the 21st century. *Science*. Edebate. URL: <http://www.sciencemag.org/cgi/eletters/288/5474/2135>.

Pax-lenney, M., Woodcock, C. E., Macomber, S. A. and Song, C. 1999 Identification of conifer forests in Landsat imagery: Generalization in time and space in the pacific northwest, USA. Proceedings, ASPRS 1999 Annual Conference, Portland, Oregon, USA, May 17-21, pp.721-725.

Seto, K. C., Song, C., Woodcock, C. E. 1999. Land-use land-cover change in the Pearl River Delta, 1988-1996: Evidence from Landsat TM. Proceedings, ASPRS 1999 Annual Conference, Portland, Oregon, USA, May 17-21, pp. 633-636.

Woodcock, C. E., Macomber, S. A., Song, C., Pax-Lenney, M., Gopal, S. 1999. Regional to continental monitoring of change in temperate conifer forests. Pecora 14: Land Satellite Information III Proceedings, ASPRS, pp. 322-327.

Song, C. 1993. The microclimate effects of forest ecosystems on the Loessial Plateau in western Shanxi province (in Chinese). In: *The Ecological effects of forest ecosystems on the Loessial*

Plateau (Ed. Lida Sun and Jinzhao Zhu). The Science Press, China.

Invited Talks

”Impacts of Canopy Structure on Forest Ecosystem Energy, Carbon and Water Dynamics”, Southern Global Change Program, US Forest Service, Raleigh, NC. Feb 22, 2008.

“Leaves, Trees and Stands: Can we Measure Them From the Space and why do we Care?” Department of Geography, University of North Carolina at Chapel Hill, September 8, 2006.

“Integrative Use of Remote Sensing and Ecological Models to Understand Terrestrial Ecosystem Processes”, Informal Discussions with Wofsy and Moorcroft Groups, Harvard University, Feb 9, 2006.

“Effects of Canopy Structure on Energy, Water and Carbon Fluxes in a Loblolly Pine Stand, Southeast USA”, Department of Geography, Boston University, Nov 18, 2005.

“Use of Remote Sensing Information from Space to Understand Forest Ecosystem Processes”, College of Forestry and Natural Resources, Beijing Forestry University, Oct 19, 2005.

“Remote Sensing of Vegetation: Potential for Biodiversity Studies”, Wuhan Botanical Garden, Chinese Academy of Sciences. October 10, 2005.

“Impacts of Land-Use History on Regional Carbon Budget: A Remote Sensing Approach,” Harvard Forest, Harvard University, September 23, 2005.

“Monitoring Changes in Forest Ecosystems with Multitemporal Remotely Sensed Imagery: Implications for Estimating Regional Carbon Budget,” International Conference on LCLUC Processes in Northeast Asia Region, Feb 2-5, 2005. Harbin, China.

“Recovering Landsat 7 ETM+ Missing Data Due to SLC-Off: Comparison of Algorithms”, Song, C., Quirk, P. J. and Woodcock, C. E. (Talk given by Woodcock). Phase 3 Landsat SLC-Off product, USGS and Landsat Science Program Office, Jan 13, 2005. University of Maryland, College Park, MD.

“Remote Sensing of Forest Succession: Implications for Estimating Regional Forest Ecosystem Carbon Budget”, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL. September 21, 2004.

“Remote Sensing of Forest Succession: Implications for Estimating Regional Forest Ecosystem Carbon Budget”, Center for Remote Sensing and GIS, Beijing Normal University, Nanjing, PR China. August 16, 2004.

“Remote Sensing of Forest Succession: Implications for Estimating Regional Forest Ecosystem Carbon Budget”, International Institute of Earth System Sciences, Nanjing University, Nanjing, PR China. August 5, 2004.

“Recovering Landsat 7 ETM+ Missing Data Due to SLC Off from Overlapping Scenes,” Landsat 7 SLC-off New Products Brainstorming Workshop, NASA, Oct 28-29, 2003, Greenbelt, MD.

“Integrating Remote Sensing with Ecological Models to Estimate Regional Forest Ecosystem Carbon Budget”, Curriculum in Ecology, University of North Carolina at Chapel Hill. February 6, 2003.

“Remote Sensing of Vegetation for Terrestrial Carbon Budget Estimation: MODIS vs Landsat” at Workshop on Application of Remote Sensing in Support of Canada’s National Forest Carbon Monitoring, Accounting and Reporting System. Sponsored by Canadian Forest Service. Victoria, BC, January 22-24, 2003.

“Experience from Atmospheric Correction and Change Detection: Implications for Landsat Data Continuity Mission” at Workshop for Landsat Data Continuity Mission. Sponsored by NASA Goddard Space Flight Center. Beltsville, MD. May 15-16, 2001.

“Atmospheric Correction of Landsat Images” at Workshop on Surface Reflectance Retrieval from Landsat Imagery of Forested Terrain in the Context of the Earth Observations for Sustainable Development (EOSD) Program”. Sponsored by Canadian Forest Service. Ottawa, Ontario, March 15-16, 2001.

Conference Presentations and Posters

Poster: Lihong Su and Conghe Song, Derivation of leaf clumping index using BRDF models and MISR/MODIS data. NASA Carbon Cycle and Ecosystems Program Joint Workshop, April 28-May 2, 2008, Adelphi, MD .

Oral Presentation: Lihong Su and Conghe Song. Calculation of Foliage Clumping Index Using Bidirectional Reflectance Models and Spectral Variances of Components at Pixel Scale. 2008 Annual Meeting of Association of American Geographers, April 15-19, 2008. Boston, MA.

Oral Presentation: Conghe Song and Matthew B. Dickinson. Extracting Forest Canopy Structure from Spatial Information of High Resolution Optical Imagery: Tree Crown Size vs. Leaf Area Index. 2008 Annual Meeting of Association of American Geographers, April 15-19, 2008. Boston, MA.

Poster: Su Zhang, Joshua Gray, Paul McCall, Conghe Song. Scaling-up Eddy Covariance Measurements with Remote Sensing to Estimate Regional Scale Transpiration. 2008 Annual Meeting of Association of American Geographers, April 15-19, 2008. Boston, MA.

Poster: Lihong Su and Conghe Song, Derivation of leaf clumping index using BRDF models and MISR/MODIS data. 2007 Fall meeting of American Geophysical Union, Dec 10-14, 2007, San Francisco, CA.

Oral Presentation: Conghe Song, Gabriel G. Katul, Ram Oren, Lawrence E. Band, Christina L. Tague, Paul C. Stoy, Heather McCarthy. Modeling the Impacts of Canopy Structure on Energy, Water and Carbon Fluxes through a Loblolly Pine Stand: Uniform vs. Gappy Canopies. April 17-21, 2007 Annual meeting of the Association of American Geographers, San Francisco, CA.

Poster: Conghe Song, Patricia E. Polo Almeida, Laura Brewington, Joseph T. Forrest, Warren C. Jochem, Jackson W. Lord, Steven T. Loy, Paul McCall, Brentley W. Moats, Julie Tuttle, Dahl C. Winters, Jessica L. Wooten, Su Zhang. A Preliminary Study of Land-cover/Land-use Changes from 1938 to 2002 in the North Carolina Piedmont. NASA Land-Cover/Land-Use Change Science meeting, April 4-6, 2007, Adelphi, MD.

Oral presentation: Song, C. Extracting forest canopy structure using spatial information of remotely sensed imagery. March 7-11, 2006 Annual Meeting of the Association of American Geographers, Chicago, IL.

Oral Presentation: Song, C. Mapping Successional Stages of Temperate Conifer Forests with Multitemporal Landsat Thematic Mapper Imagery. Ninth International Symposium of Physical Measurements and Signature in Remote Sensing. Oct 17-19, 2005, Beijing, PRC.

Oral Presentation: Song, C., Band, L. E., Tague, C. L., Randolph, A., Oren, R. and Katul, G. 2005. Modeling energy, water and carbon dynamics for a Loblolly pine stand in Southeastern USA: Impacts of Canopy Structure. AAG 2005 Annual Meeting, Apr 5-9, 2005. Denver, CO.

Poster: Song, C., Band, L. E., Tague, C. L., Randolph, A. Oren, R. and Katul, G. Impact of Canopy structure on water, energy and carbon exchange in a Loblolly Pine Forest in Southeast USA. AGU Fall meeting, Dec 13-17, 2004.

Co-Convener, Multitemporal Remote Sensing of Vegetation I. AGU/CGU Joint Assembly, May 17-21, 2004. Montreal, Quebec.

Co-Convener, Multitemporal Remote Sensing of Vegetation II. AGU/CGU Joint Assembly, May 17-21, 2004. Montreal, Quebec.

Poster: Factors of uncertainty in monitoring forest succession using multitemporal Landsat images. Conghe Song. AGU/CGU Joint Assembly, May 17-21, 2004. Montreal, Quebec.

Oral Presentation: "Spectral mixture analysis for subpixel vegetation fractions: how to incorporate

endmember variations?" Conghe Song. AAG 2004 Annual meeting, Philadelphia, PA, March 15-19, 2004.

Poster: "MVP: A model to simulate the spatial patterns of photosynthetically active radiation under discrete forest canopies." Conghe Song and Lawrence E. Band, AGU Fall Meeting, San Francisco, CA. December 8-12, 2003.

Poster: "Monitoring Forest Succession with Remote Sensing: The potential of Multitemporal and Multiresolution Imagery." Conghe Song. NASA Workshop on Multi-Dimensional Forested Structure: Requirements for Remote Sensing Observations. Annapolis, MD. June 22-25, 2003.

Oral Presentation: "Modeling of Mean and Variation of PAR (MVP) Under Discrete Forest Canopies." Conghe Song and Larry Band. Vinton Furnace Experimental Forest, Dundas, OH. May 29, 2003.

Poster: "The Importance of Stand Age Structure and Land Use History on Regional Forest Ecosystem Carbon Budget." Conghe Song. AGU Fall Meeting, San Francisco, CA. December 6-10, 2002.

Oral Presentation for AAG Nystrom Dissertation Award Competition: "The Spatial Characteristics of Remotely Sensed Imagery Associated with Forest Succession." Conghe Song. AAG 2002 Annual Meeting, Los Angeles, CA. March 17-23, 2002.

Oral Presentation: "Vegetation temperature condition index and its application for drought Monitoring." Wang, P. X., Li, X. Gong, J. Y. and Song, C. IEEE 2001 International Geoscience And Remote Sensing Symposium (IGARSS), 9-13 July 2001, The University of New South Wales, Sydney, Australia.

Poster: "Manifestation of forest succession in optical imagery." Conghe Song, Curtis E. Woodcock and Xiaowen Li. IEEE 2001 International Geoscience And Remote Sensing Symposium (IGARSS), The University of New South Wales, Sydney, Australia, 9-13 July 2001.

Poster: "Monitoring Succession in Temperate Conifer Forests with Remote Sensing: Implications for Terrestrial Carbon Budgets." Conghe Song and Curtis E. Woodcock, Landsat Science Team meeting, Airlie Conference Center, Warrenton, VA. Nov 7-9, 2000.

Oral Presentation: "Modeling Forest Succession in Temperate Conifer Forests." Landsat Science Team Pre-Meeting. University of Colorado, Boulder, CO. May 8, 2000.

Teaching Record

Geog070, Introduction to Geographic Information, Fall 2001.

Geog070, Introduction to Geographic Information, Spring 2002.

Geog178, Advanced Remote Sensing, Spring, 2002.

Geog070, Introduction to Geographic Information, Fall 2002.

Geog070, Introduction to Geographic Information, Spring 2003.
Geog178, Advanced Remote Sensing, Spring 2003.
Geog195, Ecological Modeling, Spring 2004.
Geog178, Advanced Remote Sensing, Spring 2004.
Geog110, Modeling of Environmental Systems, Fall 2004.
Geog070, Introduction to Geographic Information, fall 2004.
Geog195, Ecological Modeling, Spring 2005.
Geog178, Advanced Remote Sensing, Spring 2005.
Geog410, Modeling of Environmental Systems, Fall 2006.
Geog577, Advanced Remote Sensing, Spring 2007.
Geog595, Ecological Modeling, Spring 2007.
Geog410, Modeling of Environmental Systems, Fall, 2007.
Geog577, Advanced Remote Sensing, Spring 2008.

Professional Services

Reviewer for Journals: Applied Vegetation Science, Conservation Biology; Canadian Journal of Remote Sensing; Ecological Applications; Ecological Modeling; Ecosystems; GeoCarto International; IEEE Transactions of Geoscience and Remote Sensing; International Journal of Remote Sensing; ISPRS Journal of Photogrammetry and Remote Sensing; Journal of Applied Ecology; Journal of Applied Meteorology; Journal of Forest Research; Land Degradation and Development; Landscape Ecology; Photogrammetric Engineering and Remote Sensing; Plant Ecology; Professional Geographer; Regional Environmental Change; Remote Sensing of Environment, Sensors; Tree Physiology.

Reviewer for Proposals: Auburn University; City University of New York; National Science Foundation; National Aeronautics and Space Administration; Sam Houston State University; USDA Forest Service; The National Geographic Society; The State University of New Jersey.

Panel Service: NASA ACCESS: Advancing Collaborative Conventions for Earth System Science, 2006.

Panel Service: NASA New Investigator's Program, 2008.

Departmental Committees: Undergraduate Committee (2007-present); Colloquium Committee (2007-2008); Graduate Committee (2004-2005); Merit and Annual Review Committee, 2002-2004; Search Committee, Earth System Science, 2002; Colloquium Committee, 2003-2004; Search Committee, Health and Environment, 2004-2005; Undergraduate Committee, 2004-2005; Graduate Committee, 2004-2005.

Student Committees:

Ph.D. Committees: Neely Law (finished 2003, Major Advisor: Dr. Band); David Tenenbaum (finished 2004, Major Advisor: Dr. Band); Daehyok Shin (finished 2005, Major Advisor: Dr. Band);

Jingfeng Xiao (finished 2006, Major Advisor: Dr. Moody); Antoine Randolph (continuing, Major Advisor: Dr. Band); Yang Shao (finished 2007, Major Advisor: Dr. Walsh); Christine Erlien (continuing, Major Advisor: Dr. Walsh); Carlos Mena (finished 2007, Major Advisor: Dr. Walsh); Dan Weiss (continuing, Major Advisor: Dr. Walsh); Paul McCall(continuing, Major Advisor: Dr. Song); Su Zhang (continuing, Major Advisor: Dr. Song); Amy McCleary (continuing, Major Advisor: Dr. Walsh); Julie Tuttle (continuing, Major Advisor: Dr. Walsh); Joshua Gray (continuing, Major Advisor: Dr. Song); Joseph Saxton (continuing, Duke Univ. Major Advisor: Dr. Urban)

Master's Committees: Sean McKnight (finished 2004, Major Advisor: Dr. Walsh); Even Hammer (finished 2004, Major Advisor: Dr. Walsh); Adam Smith (finished 2005, Major Advisor: Dr. Konrad);Catherine Shields (finished 2007, Major Advisor: Dr. Band);

Undergraduate Honor Thesis Committee: Ashly Ward (Spring 2005, Advisor: Dr. Meade)