

# Frank H. Koch, Jr.

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## EDUCATION

**Ph.D. in Forestry**, Minor in Environmental Remote Sensing and Image Analysis, December 2005, North Carolina State University, Raleigh, NC.

**M.S. in Natural Resources**, Technical Concentration in Spatial Information Systems, May 2001, North Carolina State University, Raleigh, NC.

**Post-Baccalaureate Studies in Natural Resources**, September 1998-May 1999, North Carolina State University, Raleigh, NC.

**B.A. in Visual Art and Philosophy**, May 1993, Duke University, Durham, NC.

## RESEARCH EXPERIENCE

**North Carolina State University Department of Forestry & Environmental Resources** (Raleigh, NC)

Research Assistant Professor – USDA-FS Forest Health Monitoring Program	December 2007-present
Research Associate – USDA-FS Forest Health Monitoring Program	January 2005-December 2007
Graduate Research Assistant – NCSU Center for Earth Observation	August 1999-December 2004

## PUBLICATIONS

### **In Preparation/Review/Revision:**

**Koch, F.H.**, and W.D. Smith. Creation of a new sudden oak death risk map to facilitate national detection surveys. In preparation for submission to *Phytopathology*.

Benson, M., K. Ivors, E. Fichtner, M. Garbelotto, D. Rizzo, S. Tjosvold, E. Hansen, J. Parke, C. Hong, G. Chastagner, S. Jeffers, J. Woodward-Williams, S.H. Kim, K. Britton, G. DeNitto, S. Frankel, **F. Koch**, J. Micales, S. Oak, N. Grunwald, F. Martin, N. Shishkoff, K. Smith, P. Tooley, T. Widmer, R. Bulluck, G. Burnett, L. Ferguson, G. Fowler, L. Garrett, J. Jones, R. Magarey, B. Randall-Schadel, K. Cardwell, M. Draper, and T. Chand-Goyal. Recovery plan for *Phytophthora kernoviae*, causing bleeding trunk cankers, leaf blight and stem dieback in trees and shrubs. National Plant Disease Recovery Plan (NPDRS) disease-specific document, draft under review (Feb. 2008).

**Koch, F.H.** Emerging forest pest threat: redbay ambrosia beetle and laurel wilt. Chapter in preparation for the 2007 USDA-FS Forest Health Monitoring National Technical Report, in external review (Apr. 2008).

**Koch, F.H.**, H.M. Cheshire, and H.A. Devine. Mapping hemlocks in the southern Appalachian Mountains using a decision tree approach. In revision based on reviewer comments.

Coulston, J.W., N. Zaccarelli, K.H. Riitters, **F.H. Koch**, and G. Zurlini. The spatial scan statistic: a new method for spatial aggregation of categorical raster maps. In revision based on reviewer comments, to be re-submitted to *International Journal of Geographical Information Science*.

#### Peer-Reviewed Journal Articles:

Coulston, J.W., **F.H. Koch**, W.D. Smith, and F.J. Sapio. In press. Invasive forest pest surveillance: survey development and reliability. *Canadian Journal of Forest Research*.

**Koch, F.H.**, and W.D. Smith. 2008. Spatio-temporal analysis of *Xyleborus glabratus* (Coleoptera: Curculionidae: Scolytinae) invasion in eastern U.S. forests. *Environmental Entomology* 37(2): 442-452.

McShea, W.J., W.M. Healy, P. Devers, T. Fearer, **F.H. Koch**, D. Stauffer, and J. Waldon. 2007. Forestry matters: the current decline of oaks will impact wildlife in hardwood forests. *Journal of Wildlife Management* 71(5): 1717-1728.

**Koch, F.H.**, H.M. Cheshire, and H.A. Devine. 2006. Landscape-scale prediction of hemlock woolly adelgid, *Adelges tsugae* (Homoptera: Adelgidae), infestation in the southern Appalachian Mountains. *Environmental Entomology* 35(5): 1313-1323.

Hess, G.R., **F.H. Koch**, M.J. Rubino, K.A. Eschelbach, C.A. Drew, and J.M. Favreau. 2006. Comparing potential effectiveness of conservation planning approaches in central North Carolina, USA. *Biological Conservation* 128(3): 358-368.

Favreau, J.M., C.A. Drew, G.R. Hess, K.A. Eschelbach, **F.H. Koch**, and M.J. Rubino. 2006. Recommendations for assessing the effectiveness of surrogate species approaches. *Biodiversity and Conservation* 15: 3949-3969.

#### Proceedings/Reports/Other Publications:

**Koch, F.H.** In press. Relating lightning data to fire occurrence data. Chapter 3 in Ambrose, M.J.; Conkling, B.L. (eds.). Forest Health Monitoring 2006 National Technical Report. Gen. Tech. Rep. SRS xxx. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.

**Koch, F.H.** In press. Marine cargo imports and forest pest introductions. Chapter 7 in Ambrose, M.J.; Conkling, B.L. (eds.). Forest Health Monitoring 2006 National Technical Report. Gen. Tech. Rep. SRS xxx. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.

**Koch, F.H.**, and W.D. Smith. In press. Representing human-mediated pathways in forest pest risk mapping. Pye, J.M.; Rauscher, H.M.; Sands, Y.; Lee, D.C.; Beatty, J.S. (eds.). Advances in Threat Assessment and their Application to Forest and Rangeland Management. Gen. Tech. Rep. PNW xxx. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Station & Southern Research Station. Also in the Encyclopedia of Forest Threats: <http://www.forestencyclopedia.net/p/p5/p3263/p3267/p3284/p3021>

**Koch, F.H.**, and J.W. Coulston. In press. Modeling current climate conditions for forest pest risk assessment. Pye, J.M.; Rauscher, H.M.; Sands, Y.; Lee, D.C.; Beatty, J.S. (eds.). Advances in Threat Assessment and their Application to Forest and Rangeland Management. Gen. Tech. Rep. PNW xxx. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Station & Southern Research Station: xxx-xxx. Also to be included in the Encyclopedia of Forest Threats: <http://www.forestencyclopedia.net/p/p5>

- Magarey, R., R. Baker, G. Fowler, T. Kalaris, **F. Koch**, and J. Pitt. In press. Report from the APHIS Science Panel on Pest Risk Mapping Workshop, June 5-7, 2007, Ft. Collins, CO. US Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine.
- Coulston, J.W. , **F.H. Koch**, W.D. Smith, and F.J. Sapio. In press. Developing survey grids to substantiate freedom from exotic pests. Proceedings of the 8<sup>th</sup> Annual USDA-FS Forest Inventory and Analysis Symposium, October 2006, Monterey, CA.
- Koch, F.H.**, and W.D. Smith. 2008. Mapping sudden oak death risk nationally using host, climate, and pathways data. Frankel, S.J.; Kliejunas, J.T.; Palmieri, K.M. (tech. coords.) Proceedings of the Sudden Oak Death Third Science Symposium, March 5-9, 2007, Santa Rosa, CA, pp. 279-287. PSW-GTR-214.  
[http://www.fs.fed.us/psw/publications/documents/psw\\_gtr214/psw\\_gtr214\\_279-287\\_koch.pdf](http://www.fs.fed.us/psw/publications/documents/psw_gtr214/psw_gtr214_279-287_koch.pdf)
- McKelvey, S., **F.H. Koch**, and W.D. Smith. 2008. Predicting movement of nursery hosts using a linear network model. Frankel, S.J.; Kliejunas, J.T.; Palmieri, K.M. (tech. coords.) Proceedings of the Sudden Oak Death Third Science Symposium, March 5-9, 2007, Santa Rosa, CA, pp. 249-256. PSW-GTR-214.  
[http://www.fs.fed.us/psw/publications/documents/psw\\_gtr214/psw\\_gtr214\\_249-256\\_mckelvey.pdf](http://www.fs.fed.us/psw/publications/documents/psw_gtr214/psw_gtr214_249-256_mckelvey.pdf)
- Downing, M.C., D.M. Borchert, K. Britton, **F.H. Koch**, F.J. Krist Jr., F.J. Sapio, W.D. Smith, B.M. Tkacz, and R.C. Venette. 2007. National risk map products and documentation for Phytophthora disease of alders (*Phytophthora alni*). USDA-FS Forest Health Technology Enterprise Team.  
[http://www.fs.fed.us/foresthealth/technology/invasives\\_phytophthoraalni\\_riskmaps.shtml](http://www.fs.fed.us/foresthealth/technology/invasives_phytophthoraalni_riskmaps.shtml)
- Downing, M.C., C.W. Berisford, D.M. Borchert, D.A. Duerr, T. Eager, R.A. Haack, **F.H. Koch**, F.J. Krist Jr., F.J. Sapio, W.D. Smith, and B.M. Tkacz. 2006. National risk map products and documentation for the European spruce bark beetle (*Ips typographus*). USDA-FS Forest Health Technology Enterprise Team.  
[http://www.fs.fed.us/foresthealth/technology/invasives\\_ipstypographus\\_riskmaps.shtml](http://www.fs.fed.us/foresthealth/technology/invasives_ipstypographus_riskmaps.shtml)
- Downing, M.C., D.M. Borchert, D.A. Duerr, D.A. Haugen, **F.H. Koch**, F.J. Krist Jr., F.J. Sapio, W.D. Smith, and B.M. Tkacz. 2005. National risk map products and documentation for the sirex woodwasp (*Sirex noctilio*). USDA-FS Forest Health Technology Enterprise Team.  
[http://www.fs.fed.us/foresthealth/technology/invasives\\_sirexnoctilio\\_riskmaps.shtml](http://www.fs.fed.us/foresthealth/technology/invasives_sirexnoctilio_riskmaps.shtml).
- Koch, F.H.**, H.M. Cheshire, and H.A. Devine. 2005. Mapping hemlocks via tree-based classification of satellite imagery and environmental data. Onken, B.; Reardon, R. (comp.) Proceedings of the Third Symposium on Hemlock Woolly Adelgid in the Eastern United States, February 1-3, 2005, Asheville, NC, pp. 104-114. FHTET-2005-01. [http://www.na.fs.fed.us/fhp/hwa/pub/2005\\_proceedings/koch.pdf](http://www.na.fs.fed.us/fhp/hwa/pub/2005_proceedings/koch.pdf)
- Koch, F.H.**, and H.M. Cheshire. 2004. An early warning system for hemlock woolly adelgid in the southern Appalachians. Proceedings of the American Society for Photogrammetry and Remote Sensing Conference, May 2004, Denver, CO.
- Lundgren, J., G. Podneisinski, L. Sneddon, S. Kalbach, J. Drake, H. Devine, **F. Koch**, B. Slocumb, and S. Gawler. 2002. Development of vegetation and digital image databases for Valley Forge National Historical Park. Final Technical Report, National Park Service, Northeast Region.
- Koch, F.H.** 2001. Digital vegetation mapping and image orthorectification methods for Valley Forge National Historical Park. Proceedings of the University Consortium for Geographic Information Science Summer Assembly, June 2001, Buffalo, NY.

## **PRESENTATIONS**

- Potter, K.M., and F.H. Koch. 2008. The evolutionary history of forest tree communities: a new tool for assessing forest health. Forest Health Monitoring Annual Workgroup Meeting, February 2008, San Antonio, TX (Poster presentation by Potter)
- Koch, F.H., and W.D. Smith. 2008. Spatio-temporal analysis of redbay ambrosia beetle invasion in the southeastern U.S. Forest Health Monitoring Annual Workgroup Meeting, February 2008, San Antonio, TX. (Poster presentation by Koch)
- Koch, F.H. 2008. Forest pest risk modeling from a US Forest Service perspective. Invited seminar for the Canadian Forest Service, February 2008, Great Lakes Forestry Centre, Sault Ste. Marie, ON, Canada.
- Koch, F.H., and W.D. Smith. 2008. Spatio-temporal analysis of redbay ambrosia beetle invasion in the southeastern U.S. USDA Interagency Research Forum on Invasive Species, January 2008, Annapolis, MD. (Poster presentation by Koch)
- Koch, F.H. 2007. National-scale risk mapping and modeling for invasive forest pests. Eastern Forest Environmental Threat Assessment Center (EFETAC)/Western Wildlands Environmental Threat Assessment Center (WWETAC) Joint Retreat, September 2007, Pawley's Island, SC.
- Koch, F.H., and W.D. Smith. 2007. Revision of the USDA Forest Service national sudden oak death risk map: improved procedures for data mining, risk mapping, and modeling. Sudden Oak Death Science Symposium III, March 2007, Santa Rosa, CA. (Oral presentation by Koch)
- McKelvey, S., F.H. Koch, and W.D. Smith. 2007. Predicting movement of nursery hosts using a linear network model. Sudden Oak Death Science Symposium III, March 2007, Santa Rosa, CA. (Oral presentation by McKelvey)
- Koch, F.H., H.M. Cheshire, and H.A. Devine. 2007. Spatial tools for managing hemlock woolly adelgid in the southern Appalachians. Forest Health Monitoring Annual Workgroup Meeting, January 2007, San Diego, CA. (Poster presentation by Koch)
- Koch, F.H. 2006. Potential impacts of nonindigenous insects and pathogens on eastern oak forests. Special Session: Sustainability of Eastern Oak Forest Ecosystems, 60<sup>th</sup> Annual Southeastern Association of Fish and Wildlife Agencies Conference, November 2006, Norfolk, VA.
- Coulston, J.W., F.H. Koch, W.D. Smith, F.J. Sapio. 2006. Developing national-scale surveys for exotic pests: survey design, implementation, and future research. 8<sup>th</sup> Annual USDA-FS Forest Inventory and Analysis Symposium, October 2006, Monterey, CA. (Oral presentation by Coulston)
- Koch, F.H., and W.D. Smith. 2006. Representing human-mediated pathways in forest pest risk mapping. Conference on Advances in Threat Assessment and Their Application to Forest and Rangeland Management, July 2006, Boulder, CO. (Oral presentation by Koch)
- Koch, F.H., and J.W. Coulston. 2006. Modeling current climate conditions for forest pest risk assessment. Conference on Advances in Threat Assessment and Their Application to Forest and Rangeland Management, July 2006, Boulder, CO. (Oral presentation by Koch)
- Koch, F.H. 2006. Exotic pests threatening the forests of the eastern U.S. Seminar for the Triangle Chapter of the Society of American Foresters, May 2006, Carrboro, NC.

- Koch, F.H., and H.A. Devine. 2005. Spatial approaches to forest pest management using geographic information science. NCSU Department of Entomology Seminar, November 2005, Raleigh, NC. (Joint presentation)
- Koch, F.H., and W.D. Smith. 2005. A refined approach for examining *Phytophthora ramorum* risk in the eastern U.S. Sudden Oak Death Modelers Meeting, November 2005, Asheville, NC. (Oral presentation by Koch)
- Coulston, J.W., F.H. Koch, and W.D. Smith. 2005. Spatial interpolation of high-frequency forest attributes. 7<sup>th</sup> Annual Forest Inventory and Analysis Symposium, October 2005, Portland, ME. (Oral presentation by Coulston)
- Koch, F.H., H.M. Cheshire, and H.A. Devine. 2005. Landscape factors affecting dispersal of hemlock woolly adelgid. 49<sup>th</sup> Southern Forest Insect Work Conference, July 2005, Austin, TX. (Oral presentation by Koch)
- Koch, F.H., Cheshire, H.M., and Devine, H.A. 2005. Combating the hemlock woolly adelgid (HWA) in the southern Appalachians. Presentation to Dr. Norman Borlaug, Nobel laureate, on behalf of the Department of Forestry & Environmental Resources, April 2005, Raleigh, NC. (Invited talk by Koch)
- Koch, F.H., H.M. Cheshire, and H.A. Devine. 2005. Landscape-level prediction of hemlock woolly adelgid infestation in the southern Appalachians. 20<sup>th</sup> Annual Symposium of the U.S. Regional Chapter of the International Association for Landscape Ecology, March 2005, Syracuse, NY. (Poster presentation by Koch)
- Koch, F.H., H.M. Cheshire, and H.A. Devine. 2004. Confronting the hemlock woolly adelgid problem in the southern Appalachians. North Carolina State University Graduate School Board of Advisors Meeting, November 2004, Raleigh, NC. (Invited talk by Koch)
- Koch, F.H., H.M. Cheshire, H.A. Devine, F.P. Hain, and G.R. Hess. 2004. An early warning system for hemlock woolly adelgid in the southern Appalachians. Earth Science Information Partners Federation Summer Conference, August 2004, Asheville, NC. (Invited talk by Koch)
- Koch, F.H., H.M. Cheshire, H.A. Devine, F.P. Hain, and G.R. Hess. 2004. An early warning system for hemlock woolly adelgid in the southern Appalachians. American Society for Photogrammetry and Remote Sensing Conference, May 2004, Denver, CO. (Oral presentation by Koch)
- G.R. Hess, C.A. Drew, K.A. Eschelbach, J.M. Favreau, F.H. Koch, and M.J. Rubino. 2003. Crayons, Focal Species, & Inventories: Evaluating Conservation Planning Tools in North Carolina, USA. (Oral presentations by Hess)
- International Association for Landscape Ecology World Congress, Darwin, NT, Australia.
  - CSIRO Sustainable Ecosystems Seminar Series, Canberra, ACT, Australia.
  - Australian National University, Canberra, ACT, Australia.
  - CSIRO, Perth, WA, Australia.
- G.R. Hess, C.A. Drew, K.A. Eschelbach, J.M. Favreau, F.H. Koch, and M.J. Rubino. 2003. Crayons, Focal Species, & Inventories: Evaluating Conservation Planning Tools in North Carolina, USA. Wildlife Society Meeting, North Carolina State University, Raleigh. (Oral presentation by Drew)
- W.A. Millinor and F.H. Koch. 2003. Vegetation mapping for national parks using softcopy photogrammetry. North Carolina GIS Conference, Winston-Salem, NC. (Joint presentation)
- F.H. Koch. 2002. Digital elevation technologies: LIDAR, IFSAR, and other acronyms explained. NCSU Center for Earth Observation seminar, Raleigh, NC.
- H.M. Cheshire, F.H. Koch, B.J. Rosenfeld, and M. Smith. 2002. Use of softcopy photogrammetry to determine forest fire fuel loads. NCSU Department of Forestry and Environmental Resources seminar, Raleigh, NC. (Joint presentation)

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F.H. Koch. 2001. Digital vegetation mapping and image orthorectification methods for Valley Forge National Historical Park.. University Consortium for Geographic Information Science Summer Assembly, Buffalo, NY. (Poster presentation)

F.H. Koch. 2001. Creating a three-dimensional NC State campus using Stereo Analyst. North Carolina GIS Conference, Winston-Salem, NC. (Poster presentation)

F.H. Koch. 2001. Digital vegetation mapping and image orthorectification methods for Valley Forge National Historical Park. North Carolina GIS Conference, Winston-Salem, NC. (Poster presentation)

## **WORKSHOPS / PANELS**

Introduction to Teaching. New Graduate Student Orientation. Faculty Center for Teaching and Learning, NCSU. November 2004.

Integrating Spatial Information Technologies into Natural Resources Curricula. Conference on University Education in Natural Resources, NCSU. March 2002.

Image Processing and Photo Interpretation in a Digital Environment. Three-day workshop on ERDAS Imagine OrthoBASE and Stereo Analyst, NCSU. December 2001.

## **REVIEWS**

**Peer-Reviewed Journal Articles:** *Canadian Journal of Forest Research* (2008), *Environmental Management* (2005).

### **Conference Proceedings:**

Sudden Oak Death Third Science Symposium. May 2007. (2 manuscripts)

Conference on Advances in Threat Assessment and Their Application to Forest and Rangeland Management. September 2006. (1 manuscript)

20<sup>th</sup> Annual Symposium of the U.S. Regional Chapter of the International Association of Landscape Ecologists (US-IALE). December 2004. (18 abstracts)

### **Government Agency Documents:**

Research Project Final Report, Department for Environment, Food, and Rural Affairs, UK. March 2008.

### **Research Proposals:**

USDA-FS Pacific Southwest Research Station, Sudden Oak Death/*Phytophthora ramorum* Request for Proposals. April 2008. (1 proposal)

USDA-FS Pacific Southwest Research Station, Sudden Oak Death/*Phytophthora ramorum* Request for Proposals. March 2006. (2 proposals)

## **CONTRACTS AND GRANTS**

B.L. Conkling, F.W. Cabbage, and F.H. Koch. 2007. Statistical and spatial analyses for forest pest risk assessment. USDA Forest Service. \$65,000.

## **TEACHING EXPERIENCE**

### **North Carolina State University Department of Forestry & Environmental Resources (Raleigh, NC)**

Instructor - *Digital Photogrammetry (NR 595G)* Spring 2003

Under the University's Preparing the Professoriate Program, developed and taught a graduate-level Natural Resources Special Topics course.

Teaching Technician - *Principles of Spatial Analysis (FOR 554)* Fall 2002

As part of the Preparing the Professoriate Program, served as a technician in this graduate-level course that was a prerequisite for the Digital Photogrammetry course.

Teaching Assistant – multiple courses January 2000-2003

Part of faculty/student team integrating spatial information technologies into undergraduate natural resource management courses: *Natural Resource Measurements (NR 300)*, *Forest Management (FOR 405/406)*, *Environmental Impact Assessment (NR 484)*.

Guest Lecturer – multiple courses

*Introduction to GIS (NR 531)*

- Spatial statistics and ArcGIS: some basics. Fall 2006.

*Advanced Forest Entomology (FOR/ENT 765)*

- Spatial approaches to managing hemlock woolly adelgid and other forest pests. Fall 2005, Spring 2008.

*Principles of Spatial Analysis (FOR 554)*

- Digital elevation technologies explained. Fall 2003.
- Aerial triangulation for generating digital stereo models and orthophotos. Fall 2000, 2001.

*Applications of GIS (NR 533)*

- Using the geodatabase GIS data model for spatial analysis. Fall 2000, 2001, 2003.
- Aerial triangulation, digital photogrammetry, and their roles in GIS data creation. Fall 2000, 2001.

### **Duke University Department of Art and Art History (Durham, NC)**

Teaching Assistant - *Introduction to Sculpture* January 1993-April 1994

## **ADDITIONAL WORK EXPERIENCE**

**Customer Support Technician - Qualex, Inc.** (Durham, NC) September 1996-June 1999

Provided telephone technical support for one-hour photofinishing machines in retail photo labs across U.S. Responsibilities included solving mechanical and software problems, diagnosing machine chemistry balances from computer values, and training employees in machine operations.

Frank H. Koch, Jr.

**Clearance Researcher/Specialist - Broadcast Music, Inc.** (Nashville, TN)

June 1994-June 1996

Researched song title applications for radio and television licensing, and promoted to senior researcher specializing in major publisher accounts. Also wrote manual on editing and research procedures.

## **PROFESSIONAL SOCIETIES**

Entomological Society of America – 2006-present.

International Association of Landscape Ecologists (IALE) – 2004-present.

Assistant Program Chair for the 20<sup>th</sup> US-IALE Symposium, March 2005, Syracuse, NY.

American Society for Photogrammetry and Remote Sensing (ASPRS) – 2001-present.

## **ACTIVITIES**

Geographic Information Science (GIS) Faculty, NCSU – 2008-present.

Search Committee Member (for Research Assistant Professor position), NCSU Department of Forestry and Environmental Resources – 2006-2007.

Natural Resources Organization of Graduate Students, NCSU – 1999-2005.

President – 2002-2003.

Vice President – 2001-2002.

Graduate Representative, College of Natural Resources (CNR) Council, NCSU – 2002-2004.

Future of Forests and Forestry Distinguished Lecture Series Organizing Committee – 2001-2004.

National Science Olympiad Event Coach, Raleigh Charter High School – 2001-2003.

CNR Graduate Certificate in Research Administration Planning Committee – 2001.

Graduate Representative, CNR Executive Committee – 2000-2001.

## **HONORS**

2006 U.S. Department of Agriculture Certificate of Appreciation (for forest health research)

2003 Forestry Faculty Fellowship for Excellence in Graduate Education (NCSU)

2002 Preparing the Professoriate Fellowship (NCSU)

2002 Phi Kappa Phi National Honor Society (NCSU)

2001 Alumni Association Graduate Fellowship (NCSU)

2001 Xi Sigma Pi National Forestry Honor Society (NCSU)

1993 Graduate with Departmental Distinction in Visual Art (Duke)

1993 John R. Spencer Award in Design (outstanding senior in Visual Art; Duke)

1993 Edward H. Benenson Award in the Arts (grant for outstanding student projects; Duke)

1993 Sudler Prize Finalist (for most outstanding student from all arts departments; Duke)

1991 Golden Key National Honor Society (Duke)

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