



Jennifer A. Collins

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Degrees and Certification

Master of Arts, Teaching (Instructional Technology) – National University, San Diego CA. June 2004
Teaching Credential, Biology – Commonwealth of Virginia VA. November 2004
Teaching Credential, Secondary Life Science & P. E. – National University, San Jose CA. July 1994
Bachelors of Science, Zoology – University of California, Davis CA. June 1993

Positions Held

Teacher Fellow (16 hours/week). Consortium for Ocean Leadership, Washington DC. September 2008 – present. Facilitator of School of Rock teachers for lesson development, reviser of website, facilitator for making science accessible to the general public as part of the Distinguished Lecture Series program.

Contractor. National Museum of Natural History, Washington DC. May 2008 – September 2008. Writer for the Sant Ocean Hall Family Guide and Educator Guide.

Science Teacher. South County Secondary School, Lorton VA. August 2005 – February 2008 (currently on leave). Seventh Grade Life Science Teacher, Eighth Grade Physical Science Teacher, Vanguard Member (Technology Team), Faculty Advisory Committee member, Mindset After-School Program Lead.

Math and Science Teacher. Mesa Verde Middle School, Poway CA. August 2001 – June 2002. Seventh grade Life Science and Pre-Algebra teacher, eighth grade Algebra teacher, member of school reform committee.

Science Teacher. Iron Horse Middle School, San Ramon CA. August 2000 – June 2001. Sixth grade and seventh grade science teacher.

Teacher on Special Assignment. UC Museum of Paleontology, Berkeley CA. June 1998 – August 2000. Curriculum and assessment designer for inquiry-based, on-line science modules, pilot testing coordinator, teacher trainer, web designer, and ISTAT (Integrating Science, Teaching, and Technology) collaborator.

Web Design Teacher. Oakland Museum, Oakland CA. March 2000 – June 2000. Part time Web teacher for middle school students in marine science.

Biology Teacher. Ygnacio Valley High School, Concord CA. August 1999 – January 2000. Part time Biology teacher.

Science Teacher. Lynbrook High School, Cupertino CA. September 1995 – June 1998. Biology, physiology, and integrated science teacher, mentor, peer mediation program coordinator, school site council member, student assistance team member, freshmen class advisor, cross country and track coach, technology team member.

Empowerment Teacher. Fremont High School, Sunnyvale CA. June 1997 – August 1997. Science and empowerment teacher for students fulfilling special requirements for entering high school.

Behavior Assistant. Pine Hill School, Campbell CA. July 1994 – February 1995. Teacher assistant for emotionally disturbed and learning handicapped students.

Resident Teacher. Gunston School, Centreville MD. August 1993 – June 1994. Biology, physics, algebra, and trigonometry teacher, dorm captain, freshmen class advisor, peer counseling facilitator, field hockey coach.

Dean of Students. McMillin Summer Program, Kent CT. June 1993 – August 1993. Co-coordinator of program, director of disciplinary matters.

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Presentations and Workshops Given

- *Mystery Meat: Genetic Identification of Meat Sold as Whale*. National Association of Biology Teachers Annual Conference, Memphis, TN, October 2008
- *Understanding the Nature of Science, a Vital Component to Teaching Evolution* (poster), Evolution 2008, Minneapolis MN, June 2008
- *The Nature of Science Using Marine Biodiversity*, National Museum of Natural History, Washington DC. March 2008
- *Basic Turning Point*, South County Secondary School, Lorton VA. January 2007
- *Morning at the Museum*, National Museum of Natural History, Washington DC. December 2007
- *Smartboard for Beginners*, South County Secondary School, Lorton VA. November 2007
- *Mystery Meat*, Virginia Association Science Teachers Meeting Richmond VA. October 2006
- *Teaching Evolution Using Antibiotics, Avian Influenza, and More*, Virginia Association Science Teachers Meeting, Richmond VA. October 2006
- *Teaching Evolution Using the Nature of Science and VIST*, Virginia Association Science Teachers Meeting, Roanoke VA. October 2005
- *Ocean Hall Teacher Workshop*, National Museum of Natural History, Washington DC. July 2005
- *Teaching Evolution*, National Science Teachers Association Meeting, San Diego CA. April 2002
- *Understanding Ancestry and Explorations Through Time*, CEEMaST, Pomona CA. March 2002
- *Teaching Evolution*, California Science Teachers Meeting, Sacramento CA. October 2001
- *Tracking the Course of Evolution*, Museum of Paleontology, Berkeley CA. April 2000
- *Evolution, Investigating the Evidence*, Museum of Paleontology, Berkeley CA. March 2000
- *Teaching Evolution*, Geological Society of America, Reno NV. October 2000
- *Using Phylogeny in Middle and High School Science* (Poster), Evolution 2000 Meeting, Bloomington IN. October 2000
- *Evolution, Investigating the Evidence*, Geological Society of America, Denver CO. October 1999
- *Learning from the Fossil Record*, California Science Teachers Meeting, San Jose CA. October 1999
- *Original Thoughts*, Museum of Paleontology, Berkeley CA. March 1999
- *Learning from the Fossil Record*, California Science Teachers Meeting, Long Beach CA. October 1998
- *Learning from the Fossil Record*, Geological Society of America, Toronto. Canada. October 1998
- *Peer Mediation Training*, Lynbrook HS, San Jose CA. October 1997
- *Sexual Harassment Training*, Lynbrook HS, San Jose CA. February 1996

Published Lessons and Educator Materials

- Collins, J., Watson, B., Werb, S. (2008). *Sant Ocean Hall Educator Guide*. National Museum of Natural History.
- Collins, J., Collins, A. (2008). *Mystery Meat: Genetic Identification of Meat Sold as Whale*. University of California Berkeley Museum of Paleontology.
- Collins, J. (in review). *Cassit Birds: A Lesson on Genes, Inheritance, and Evolution*. University of California Berkeley Museum of Paleontology.
- Collins, J. (2008). *Artificial Selection of Dogs*. University of California Berkeley Museum of Paleontology.
- Scotchmoor, J., Collins, J., Cordero, A., Guralnick, R., Smith, D., Speer, B., Verma, R., Waggoner, B., Whitney, C. (1997–2006). *Life Has a History*. University of California Berkeley Museum of Paleontology.
- Collins, J., McHenry, M., Monk, A., Scotchmoor, J., Stefanski, M. (2004). *Evolution of Flight*. University of California Berkeley Museum of Paleontology.

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- Scotchmoor, J., Collins, J., Guralnick, R., Kurpius, J., Monk, A., Stefanski, M.(2002). *Geologic Time*. University of California Berkeley Museum of Paleontology.
- California Science Teachers Association and California Integrated Waste Management (2002). *Don't Throw It Away*.
- Collins, J. (2001). *Anolis Lizards of the Greater Antilles*. University of California Berkeley Museum of Paleontology.
- Begovic, E., Bunje, P., Collins, J., Lesen, A., Monk, A. (2000). *Stories From the Fossil Record*. University of California Berkeley Museum of Paleontology.
- Collins, J., Scotchmoor, J., Stromberg, C. (2000). *What Did Trex Taste Like?* University of California Berkeley Museum of Paleontology.
- Collins, J., Lindstrom, K. (1999). *Getting Into the Fossil Record*. University of California Berkeley Museum of Paleontology.
- Collins, J., Cordero, A., Guralnick, R., Kurpius, J., Linstrom, K., Scotchmoor, J., Stromberg, C. *Adventures of Dry Creek*. (1998). University of California Berkeley Museum of Paleontology.

Other Publications

- Collins, J., Watson, B., Werb, S. (2008). *Sant Ocean Hall Family Guide*. National Museum of Natural History.
- Collins, J., Collins, A., Daly, M., Ames, C. (2006). *An International Adventure in Japan*. Cnidarian Tree of Life Project.
- Collins, J., Collins, A. (2005). *Systematics as a Hypothesis-Based Science and its Fundamental Role in Understanding Oceans*. Proceedings for Oceans 2005.
- Collins, J.(2002). Review: *The Dinosaurs of Waterhouse Hawkins*. Paleontologia Electronica.
- California Science Teachers Association (2000). *Making Connections: A Guide to Implementing Science Standards*. California Science Teachers Association.
- Collins, A., Collins, J. (2000). *Phylogeny in a Nutshell*. Paleobio.

Invited Reviews

- Miller and Levine Biology Textbook Chapter Review (2007). Pearson Science Department.
- California Department of Education (2002). *Recommended Literature: Kindergarten Through Grade Twelve*. California Department of Education.
- *Dinosaurs, the Science Behind the Stories* (2001). Society of Vertebrate Paleontology / Paleontological Society.

Other Service to the Community

- Action Team Member. Coalition on the Public Understanding of Science, 2008 – present. Advisor, supporter and promoter of COPUS and Year of Science 2009 efforts, co-coordinator of K12 group efforts, co-coordinator of Ocean and Water group efforts, updater of Featured Programs feature on COPUS website.
- Teacher Advisory Board Member. Understanding Science Website. UC Museum of Paleontology, Berkeley CA. 2005 – present. Content and design advisor and reviewer, planner for educator resources, writer of educator and student materials.
- Teacher Advisory Board Member. Understanding Evolution Website. UC Museum of Paleontology, Berkeley CA. 2002 – 2004. Content and design advisor and reviewer, planner for educator resources.
- Conference Planning Team Member. California Science Teachers Association. August – October 2000.

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Workshops

- *Exploratorium New Digital Media & Public Engagement with Science Workshop*, Washington DC. 2008
- *Developing a National Education Component for the Census of Marine Life*, Washington DC. 2007
- *Ocean Hall Education and Outreach Summit*, Smithsonian Natural History Museum and National Oceanic and Atmospheric Administration, Washington DC. 2005
- *Earth System Education Partnerships with Research Institutions*, National Center for Atmospheric Research, Boulder CO. 2001
- *Digital Library for Earth Science Systems Planning Workshop*, Flagstaff AZ. 2001

Meetings and Seminars Attended

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- *Evolution 2008*, Minneapolis MN. 2008
- *Vanguard Technology Training*, Chantilly VA. 2007
- *Virginia Association of Science Teachers Annual Meeting*, Richmond VA. 2006,
- *National Science Teachers Association Annual Conference*, Baltimore MD. 2006
- *Virginia Association of Science Teachers Annual Meeting*, Roanoke VA. 2005
- *Working with ELD Students*, Concord CA. 1999
- *Grant Writing*, San Francisco CA. 1998
- *Geological Society of America Meeting*, Toronto Canada. 1998
- *California Science Teachers Association Meeting*, San Jose CA. – 1998/1996, San Francisco CA. 1997
- *Monterey Bay Aquarium Research Institute Educator's Seminar*, Monterey CA. 1998
- *Biology Forum*, San Francisco Academy of Sciences, San Francisco CA. 1999, 1998, 1997, 1995
- *Association of Supervision and Curricular Development Annual Conference*, Baltimore MD. 1997
- *Conflict Resolution Training*, San Diego CA. 1997
- *Pleistocene Heritage*, UC Museum of Paleontology, Berkeley CA. 1997
- *Human Brain*, Lawrence Livermore Lab CA. 1997
- *Tracking the Course of Evolution*, UC Museum of Paleontology, Berkeley CA. 1996
- *Evolution and the Nature of Science Training*, Menlo Park CA. 1996
- *Technology Training*, San Jose Education Network, San Jose CA. 1996
- *New Teacher Mentorship*, San Jose CA. 1995
- *AIMS New Teacher Training*, Baltimore MD. 1993

Continuing Education and Coursework

- *Collaborative Teaching*, Fairfax County Public Schools, Falls Church VA
- *Understanding Our Environment Curriculum Training*, Fairfax County Public Schools, Falls Church VA
- *Invasive Pests*, University of California, Davis CA
- *Kate Kinsella Reading Workshop*, Sacramento CA
- *Geology of the Bay Area*, University of California, Berkeley CA
- *School Community Relations in a Diverse Society*, National University, San Jose CA
- *Management of School Personnel*, National University, San Jose CA
- *Applications of Instructional Technology*, National University, San Jose CA
- *Curriculum Alignment and Evaluation*, National University, San Jose CA
- *School Administration*, National University, San Jose CA
- *Nutrition For Health Professionals*, De Anza Jr. College, Cupertino CA

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- *American Red Cross First Aide/CPR Instructors Training Program*, Red Cross, San Jose CA
- *Marine Biology*, De Anza Jr. College, Cupertino CA
- *Evolution and the Nature of Science*, San Jose State, San Jose CA
- *Microcomputers*, San Jose State, San Jose CA

Scientific Field Experience

- Research Assistant and Web Writer, Cnidarian Tree of Life Project. Japan. July–August, 2006
- Research Assistant, Medusae Collection. Smithsonian Tropical Research Institute, Panama.
March 2004
- Research Assistant, Placozoan Collection. Smithsonian Tropical Research Institute, Panama.
June 2002
- Research Assistant, Tracks & Trails, Placozoan collection. University of Guam, Guam. May 2000
- Research Assistant, Vendian Fossils. Johnnie, Nevada. August 1998
- Research Assistant, Tracks & Trails of Flatworms. Gump Station, Moorea French Polynesia. May 1998