

**JOEL L. CRACRAFT  
CURRICULUM VITAE**

Department of Ornithology  
American Museum of Natural History  
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**PERSONAL INFORMATION**

Date of Birth: 31 July 1942

**EDUCATION**

1964. B.S. (Zoology) University of Oklahoma  
1966. M.S. (Zoology) Louisiana State University  
1969. Ph.D. (Biology) Columbia University  
1969. Frank M. Chapman Fellow, American Museum of Natural History

**PROFESSIONAL EXPERIENCE**

2011-2020 Chair, Division of Vertebrate Zoology, AMNH  
2008-present Professor Richard Gilder Graduate School (AMNH)  
1999-present Lamont Curator of Birds, Department of Ornithology  
1999-present Curator-in-Charge, Department of Ornithology  
1992-present Curator, American Museum of Natural History  
1997-present Adjunct Professor, Department of Ecology, Evolution and  
Environmental Biology, Columbia University  
1993-1994 Acting Director, Center for Biodiversity and Conservation, AMNH  
1992-present Adjunct Professor, City University of New York  
1970-1992 Assistant, Associate, Full Professor, University of Illinois, Chicago

**RESEARCH INTERESTS**

Theory and methods of comparative biology, evolutionary theory, speciation analysis, biological diversification, avian systematics, evolution of morphological systems, historical biogeography, molecular systematics and evolution

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

American Association for the Advancement of Science, American Institute of Biological Sciences, American Ornithological Society, Linnean Society of London, Society of Systematic Biologists, Society of Vertebrate Paleontology, Willi Hennig Society

**ACTIVITIES IN PROFESSIONAL SOCIETIES**

1979-1988 Chairman, Investing Trustees, American Ornithologists'  
Union  
1987-1989 Chairman, Investment Committee, American Society of Zoologists

1977-1981	Treasurer, American Ornithologists' Union
1977-1981	Council, American Ornithologists' Union
1978	Council, Cooper Ornithological Society
1989-1990	Editorial Board, American Zoologist
1990	Chairman, Investment Committee, Cooper Ornithological Society
1989-1993	Treasurer and member Executive Committee, International Society for the History, Philosophy, and Social Studies of Biology
1981-1983	Council, Society of Systematic Zoology
1987-1997	Investment Committee, Society of Systematic Zoology
1984	Editorial Board, Systematic Zoology
1988-1990	Program Officer, Society of Systematic Zoology
1991-1992	President-elect, Society of Systematic Biologists
1992-1993	President, Society of Systematic Biologists
1993-1994	Past-President, Society of Systematic Biologists
1992-1993	Editorial Board, Molecular Biology and Evolution
1993-1994	Board of Directors, American Institute of Biological Sciences
1997-present	Investing Trustees, Society of Systematic Biologists
2001- present	Editorial Board, Molecular Phylogenetics and Evolution
2003	President-elect, American Institute of Biological Sciences
2004	President, American Institute of Biological Sciences
2005	Past-President, American Institute of Biological Sciences
2006-present	Council, American Institute of Biological Sciences
1998-present	National Center for Science Education Advisory Council

#### **NATIONAL BOARDS AND ACTIVITIES**

1991-1995	Co-Chair, Steering Committee, Systematics Agenda 2000
1995-1997	National Research Council, Committee for the Forum on Biodiversity
1996-1998	Biodiversity and Ecosystems Panel, President's Council of Advisors for Science and Technology, Office of Science Technology and Policy
1998- Present	National Research Council, U. S. National Committee for International Union of Biological Sciences
1999	National Science Foundation workshop on Biodiversity Observation Network
1999	Ad hoc Advisory Committee on Planning, California Academy of Sciences
2000	National Science Foundation workshop on Tree of Life, Yale (co-organizer) National Science Foundation workshop on Tree of Life and Phyloinformatics, Davis National Science Foundation workshop on Tree of Life, Austin
2003	National Science Foundation Workshop to Produce a Decadal Vision for Taxonomy and Natural History Collections, University of Florida
2006--2007	National Research Council, Committee on the Potential Impact

2020 of High-end Computing on Illustrative Fields of Science  
National Academy of Sciences, outside review overseer of NAS  
study, *Biological Collections: Ensuring Critical Research and  
Education for the 21st Century*.

### **INTERNATIONAL BOARDS AND ACTIVITIES**

1990-1993 Council, International Congress of Systematic and  
Evolutionary Biology  
1994 European Science Foundation, Advisory Workshop  
Systematic Biology  
1996-2001 Scientific Steering Committee, DIVERSITAS  
1997- onward Steering Committee, Systematics Agenda 2000  
International (SA2000I)  
2001 SA2000I/Diversitas Advisory Workshop to Global  
Taxonomy Initiative, Convention on Biological Diversity  
2001-2002 DIVERSITAS/International Biodiversity Observation Year  
Project: Assembling the Tree of Life (co-organizer)  
2002-present Member, World Commission on Protected Areas, IUCN  
2006 Associated Meeting to CBD/COP8 Workshop on Biodiversity  
as a Megascience (co-organizer)  
2006-present DIVERSITAS, Steering Committee of BioGENESIS Program

### **GRANT SUPPORT**

National Science Foundation, 1974-1976, Functional morphology and evolution of avian  
locomotion  
National Science Foundation, 1976-1979, Functional morphology and evolution of avian  
locomotion  
National Science Foundation, 1980-1984, Phylogeny and evolution of nonpasserine birds  
National Science Foundation, 1986-1989, Phylogeny and diversification of nonpasserine birds  
National Science Foundation, 1988-1991, Speciation and evolution of the birds-of-paradise  
(Paradisaeidae)  
National Science Foundation, 1990-1992, Phylogeny of the Paradisaeidae and the corvine  
assemblage using mtDNA sequences  
New York Zoological Society (Nixon Griffis Fund), 1991-1992, Discrimination of evolutionary  
taxa of tigers using mtDNA sequences: systematic and conservation implications (research  
was also supported by the Captive Breeding Specialist Group/Species Survival Plan)  
National Science Foundation, 1992-1994, Speciation in the birds-of-paradise (Paradisaeidae)  
using mtDNA sequences  
National Science Foundation, 1992-1994, Systematics Agenda 2000: a research trends and  
priorities initiative  
National Science Foundation, 1993-1994, Renovation of the Department of Ornithology  
Research Laboratories, American Museum of Natural History (co-PI with George  
Barrowclough)  
National Science Foundation, 1995-1997, Public education about the biodiversity crisis,  
American Museum of Natural History (co-PI with Niles Eldredge and Samuel Taylor)

National Science Foundation, 2000- 2002, Assembling the Tree of Life (co-PI with M. J. Donoghue)

National Science Foundation, 2002-2006, Collaborative Research: Archosaur phylogeny - a total evidence approach at fine taxonomic level (co-PI with Mark Norell, George Barrowclough)

DARPA, 2010-2012, Continuation of Novel Analytical and Empirical Approaches to the Origin and Prediction of Pathogenicity, Co-PI.

National Science Foundation Collaborative Research, 2012-2015, Systematics of a pantropical diversification: the suboscine passerine birds, Co-PI.

National Science Foundation/NASA. Dimensions of Biodiversity US-BIOTA Collaborative Research, 2012-2016, Dimensions US-BIOTA-São Paulo: Assembly and evolution of the Amazonian biota and its environment: an integrated approach, lead PI. \$2,000,000 (\$549,321 to JC)

National Science Foundation. Supplemental Funding Request No: 1632819. Dimensions US-BIOTA-Sao Paulo: Assembly and evolution of the Amazonian biota and its environment: an integrated approach. Principal Investigator: Joel Cracraft. Existing Award Number: 1241066 Program: Dimensions of Biodiversity. Request Type: Supplemental \$4960.

National Science Foundation."DISSERTATION RESEARCH 2016-2017: Untangling history and ecology to reconstruct the assembly of an iconic avifauna" (with Brian Weeks)

PEER/National Academy of Sciences/NSF: History and diversification of floodplain forest bird communities in Amazonia: towards an integrated conservation plan. (US supported partner). Camila Ribas, Instituto Nacional de Pesquisas da Amazonia. Travel money and collaboration expenses.

### **AWARDS AND HONORS**

1976 Elected Fellow, American Ornithologists' Union

1993 Elliott Coues Award, American Ornithologists' Union

1998 Elected Fellow, American Association for the Advancement of Science

2018. Elected Honorary Member, Nuttall Ornithological Club

### **SYMPOSIUM ORGANIZATION, PARTICIPATION, AND PLENARY ADDRESSES**

1969. NATO ADVANCED STUDY INSTITUTE, Istanbul, Turkey: Vertebrate evolution: mechanism and process. Title of presentation: The concept of specialization.

1971. GEOLOGICAL SOCIETY OF AMERICA/SOCIETY OF VERTEBRATE PALEONTOLOGY, Washington, D.C.: Plate tectonics and fossil vertebrate distribution. Title of presentation: The role of continental drift in the biogeography of birds.

1972. NATO ADVANCED STUDY INSTITUTE, Newcastle-upon-Tyne, England: Continental drift, sea floor spreading and plate tectonics: implications for the earth sciences. Title of presentation: Vertebrate evolution and biogeography in the Old World tropics: implications of continental drift and palaeoclimatology.

1972. 17th INTERNATIONAL ZOOLOGY CONGRESS, Monaco: Biogeography and intercontinental connections during the Mesozoic. Title of presentation: Mesozoic dispersal of terrestrial faunas around the southern end of the world.

1974. XVI INTERNATIONAL ORNITHOLOGICAL CONGRESS, Canberra, Australia: Origin of the Australasian avifauna. Title of presentation: Avian evolution on southern continents: influences of paleogeography and paleoclimatology.

1974. MISSOURI BOTANICAL GARDEN SYMPOSIUM, St. Louis: Biogeography. Title of presentation: Historical biogeography and earth history: perspectives for a future synthesis.
1974. AMERICAN SOCIETY OF ZOOLOGISTS, Tucson, Arizona: World perspectives in biogeography. Title of presentation: Continental drift and vertebrate biogeography.
1976. SOCIETY OF SYSTEMATIC ZOOLOGY, New Orleans: Vertebrate phylogeny. Title of presentation: The phylogeny of birds (with A.H. Brush, Univ. of Connecticut).
1976. XV INTERNATIONAL CONGRESS OF ENTOMOLOGY, Washington, D.C.: Continental drift and historical biogeography of insects. Plenary address: The pattern of continental drift and its biogeographic implications.
1977. NORTH AMERICAN PALEONTOLOGICAL CONVENTION II, Lawrence, Kansas: Phylogenetic models (co-organizer). Title of presentation: Paleontology, phylogenetic analysis, and evolutionary models.
1977. AMERICAN ASSOCIATION OF GEOGRAPHERS, Salt Lake City: Models in biogeographic analysis. Title of presentation: Avian phylogeny and intercontinental biogeographic patterns.
1977. XVII INTERNATIONAL ORNITHOLOGICAL CONGRESS, Berlin: Recent trends in biogeographic analysis. Title of presentation: Avian phylogeny and intercontinental biogeographic patterns.
1978. SOCIETY OF SYSTEMATIC ZOOLOGY, Richmond, Virginia: Philosophical aspects of systematics (co-organizer). Title of presentation: Introduction to the symposium.
1979. AUSTRALIAN-NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Auckland, New Zealand: Biogeographic development and plate tectonics in the Southwest Pacific. Title of presentation: Vertebrate biogeography and continental drift in the Southwest Pacific.
1979. AMERICAN ORNITHOLOGISTS' UNION, College Station, Texas: Phylogeny and molecular evolution in birds (co-organized). Title of presentation: Phylogeny and rates of evolution in birds.
1979. AMERICAN SOCIETY OF ZOOLOGISTS, Tampa, Florida: Analysis of form (co-organizer).
1979. SOCIETY OF SYSTEMATIC ZOOLOGY, Tampa, Florida: The use of functional morphology in classification and phylogeny. Title of presentation: Functional morphology and phylogenetic analysis: a cladistic perspective.
1980. CONFERENCE ON MACROEVOLUTION, Field Museum of Natural History (co-organizer).
1980. SOCIETY OF SYSTEMATIC ZOOLOGY, Seattle, Washington: New perspectives in biogeography. Title of presentation: Biogeography and the testing of models of speciation.
1981. HENNIG SOCIETY, Ann Arbor, Michigan: Functional morphology and cladistics. Title of presentation: Functional morphology and cladistics: the study of pattern and process in evolution.
1981. SOCIETY OF SYSTEMATIC ZOOLOGY, Dallas, Texas: Phylogeny, biogeography, and rates of evolution. Title of presentation: Rates of evolution: methodological problems, biological questions.
1982. AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (PACIFIC DIVISION), Santa Barbara, California: Science teaching and creationism. Title of presentation: Comparative biology and systematics: the case against creationism.

1982. NATO ADVANCED STUDY INSTITUTE ON NUMERICAL TAXONOMY, Bad Windsheim, West Germany: Session on "Theories of Biological Classification" (organizer). Title of presentation: The significance of phylogenetic classifications for systematic and evolutionary biology.
1982. INTERNATIONAL ORNITHOLOGICAL CONGRESS, Moscow, USSR: Workshop sessions on avian phylogeny and evolution, evolution and biology of diving birds, and cranial morphology of birds.
1983. AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Grand Forks, North Dakota: Species concepts and speciation analysis (organizer). Title of presentation: Patterns of speciation in South American birds.
1983. MISSOURI BOTANICAL GARDEN, St. Louis, Missouri: Fall Systematics Symposium on comparative biology (co-organizer). Title of presentation: Macroevolution and rates of taxonomic diversification.
1984. AMERICAN ASSOCIATION FOR ADVANCEMENT OF SCIENCE, New York City: Problems in contemporary evolutionary theory (co-organizer). Title of presentation: Biotic diversification and the challenge to neo-Darwinism.
1984. LINNEAN SOCIETY/SYSTEMATICS ASSOCIATION/HENNIG SOCIETY, London, England: Biogeographic patterns within South America. Title of presentation: Avian biogeographic patterns in South America.
1985. CONFERENCE ON THE HISTORY AND PHILOSOPHY OF BIOLOGY, South Bend, Indiana: Workshop on punctuated equilibrium and the content of neo-Darwinism (co-organizer).
1985. INTERNATIONAL CONGRESS OF SYSTEMATIC AND EVOLUTIONARY BIOLOGY, Sussex, England: Random and directed events in evolution. Title of presentation: Toward a general theory of biological diversification.
1986. AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Philadelphia: The creation-evolution controversy, 1986 update. Title of presentation: Neo-Darwinism as a theory of evolution: current controversies and future prospects.
1986. NORTH AMERICAN PALEONTOLOGICAL CONVENTION, Boulder, Colorado: Speciation and extinction rate-controls and the regulation of biotic diversity (organizer).
1986. INTERNATIONAL ORNITHOLOGICAL CONGRESS, Ottawa, Canada: Continental avifaunas: patterns of evolution and biogeography (organizer). Title of presentation: From Malaysia to New Guinea: avifaunal assembly within a complex continent-island arc contact zone.
1987. LINNEAN SOCIETY OF LONDON, London, England: Phylogeny and classification of the tetrapods. Title of presentation: The major clades of birds.
1987. ACADEMY OF NATURAL SCIENCES, Philadelphia: Speciation. Title of presentation: Speciation and its ontology: the empirical consequences of alternative species concepts for understanding the pattern and process of differentiation.
1987. SOCIETY OF SYSTEMATIC ZOOLOGY, New Orleans: Vicariance biogeography: theory, methods, and results (co-organizer). Title of presentation: Deep-history biogeography: retrieving the historical pattern of evolving biotas.
1988. FIELD MUSEUM OF NATURAL HISTORY SPRING SYSTEMATICS SYMPOSIUM, Chicago: Evolutionary innovations: patterns and processes. Title of presentation: The origin of evolutionary novelties: pattern and process at different hierarchical levels.

1988. NOBEL FOUNDATION SYMPOSIUM, Stockholm, Sweden: The hierarchy of life. Title of presentation: The early history of modern birds: a comparison of molecular and morphological evidence
1989. SOCIETY OF SYSTEMATIC ZOOLOGY, Boston: Recent advances in phylogenetic studies of DNA sequences (co-organizer).
1990. AMERICAN MUSEUM OF NATURAL HISTORY, New York: The role of museums and the biodiversity crisis. Title of presentation: Explaining patterns of diversity: integrating causation at different spatial and temporal scales.
1990. INTERNATIONAL CONGRESS OF SYSTEMATIC AND EVOLUTIONARY BIOLOGY, College Park: Pattern versus process: causal explanation in evolutionary biology (organizer). Title of presentation: Pattern, process, and causation within evolutionary biology: is there a distinction?
1990. WILLI HENNIG SOCIETY, Canberra, Australia: Austral biogeography. Title of presentation: Deciphering historical signal in the distributions of organisms.
1990. WILLI HENNIG SOCIETY, Canberra, Australia: Biodiversity and cladistics. Title of presentation: The role of scientists in solving the global biodiversity crisis.
1990. AUSTRALIAN SYSTEMATIC BOTANY SOCIETY, Canberra, Australia: Indo-Pacific biogeography: at the crossroads. Title of presentation: Avian biogeographic patterns within Australasia.
1991. SOCIETY OF SYSTEMATIC BIOLOGISTS, Hilo, Hawaii: Phylogenetic perspectives on macroevolutionary hypotheses. Title of presentation: A model for the assembly of continental biotas and ecosystems.
1991. AMERICAN ORNITHOLOGISTS' UNION, Montreal, Canada: Avian higher-level systematics. Title of presentation: Methodological prescriptions for understanding avian phylogenetic relationships.
1991. WILLI HENNIG SOCIETY, Toronto, Canada. The impact of species concepts and hybrids on phylogenetics. Title of presentation: Phylogenetic species: systematics and diversity.
1992. AMERICAN SOCIETY OF ZOOLOGISTS, Vancouver, Canada: Science as a way of knowing: biological diversity. Title: Species diversity, biogeography, and the evolution of biotas.
1994. SOCIETY OF SYSTEMATIC BIOLOGISTS, Athens, Ga. Presidential Address.
1994. ROYAL SOCIETY, LONDON. Systematics Agenda 2000: Charting the Biosphere. Title of presentation: The urgency of building global capacity for biodiversity science.
1994. ACADEMIE DES SCIENCES, PARIS. Systematics Agenda 2000: Charting the Biosphere. Title of presentation: Systematics Agenda 2000: Building a consensus for diversity science.
1994. INTERNATIONAL HERPETOLOGICAL CONGRESS, Adelaide, Australia. Invited plenary on biogeography.
1995. AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Athens, Ga. Biodiversity Science and Policy issues: Meeting Societal Needs. Organized and chaired symposium.
1995. STATE UNIVERSITY OF NEW YORK, Albany (Distinguished Lecturer, Global Change Seminar Series).

1995. ECOLOGICAL SOCIETY OF AMERICA, Knoxville. Long-term perturbations: their continued effects on neotropical forests. Title of presentation: Area-relationships in the Neotropical lowlands: an hypothesis based on raw distributions of passerine birds.
1995. GERMAN ZOOLOGICAL SOCIETY, Oldenburg, Germany. Plenary lecture: Systematics, biodiversity science, and the conservation of the Earth's biota.
1995. LINNEAN SOCIETY OF LONDON/SYSTEMATICS ASSOCIATION, Cardiff, Wales, UK. Species: The units of Biodiversity. Title of presentation: Species concepts in systematics and conservation biology — an ornithological viewpoint.
1995. WALES CENTER FOR BIODIVERSITY, Cardiff, Wales, UK. Inaugural plenary lecture on biodiversity science and the biodiversity crisis.
1995. SYSTEMATICS AGENDA 2000 IN EUROPE, Leiden, Netherlands. Plenary lecture on SA2000.
1995. AMERICAN MUSEUM OF NATURAL HISTORY. The Living Planet in Crisis. Co-organizer. Title of presentation: Regional and global patterns of biodiversity loss and conservation capacity: predicting future trends and identifying needs.
1995. UNITED NATIONS ENVIRONMENT PROGRAMME, STRI, Panama. Global Biodiversity Assessment (GBA) Peer review Workshop.
1996. OLD DOMINION UNIVERSITY, Norfolk (Distinguished Lecturer, Global Change Seminar Series).
1996. DANISH COOPERATION FOR ENVIRONMENT AND DEVELOPMENT (DANCED) INTERNATIONAL MEETING ON BIODIVERSITY, Chiang Rai, Thailand.
1997. DIVERSITAS WORKSHOP, SBSTTA MEETING, CONVENTION ON BIOLOGICAL DIVERSITY, MONTREAL. Title of presentation: Taxonomy and biodiversity conservation.
1998. DIVERSITAS WORKSHOP, RESEARCH PRIORITIES FOR THE CONVENTION ON BIOLOGICAL DIVERSITY, MEXICO CITY.
1998. FIELD MUSEUM OF NATURAL HISTORY, SPRING SYSTEMATICS SYMPOSIUM, Chicago. Title of presentation:
1997. NATIONAL ACADEMY OF SCIENCES, Washington, D. C. Nature and Human Society. Title of presentation: Charting the biosphere: building global capacity for systematics science.
1997. AMERICAN MUSEUM OF NATURAL HISTORY, New York. Humans and other catastrophes: a new look at extinction and the extinction process. Moderator.
1998. WORLD WILDLIFE FUND, Cape Town, South Africa. Workshop on Africa Conservation Assessment
1999. CALIFORNIA ACADEMY OF SCIENCES, San Francisco. Bioforum for high school teachers. Title of presentation: What is systematics?
2000. MISSOURI BOTANICAL GARDEN, St. Louis. Mo. Conservation. The seven great questions of systematic biology: an essential foundation for conservation and the sustainable use of biodiversity.
2001. AMERICAN MUSEUM OF NATURAL HISTORY. Conservation Genetics. Invited presentation.
2001. BRAZILIAN ORNITHOLOGICAL CONGRESS. Origin and diversification of the South American avifauna. Invited plenary lecture.



2001. AMERICAN MUSEUM OF NATURAL HISTORY. Assembling the Tree of Life. Co-organizer.
2002. INTERNATIONAL ORNITHOLOGICAL CONGRESS, Beijing, China. The higher-level relationships of birds using large data sets. Co-organizer.
2002. SOCIETY OF INTEGRATIVE AND COMPARATIVE BIOLOGY, Anaheim. Biogeography. Invited presentation.
2002. AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D. C. Invited plenary lecture on evolution.
2002. U. S. FISH & WILDLIFE SERVICE, Shepherdstown, WV. Applied Conservation Genetics. Invited Presentation.
2003. CYTED-Iberoamerican Cooperation Program in Science and Technology (Subprogram of Biological Diversity). Porto Alegre, Brazil. Invited presentation on systematics capacity building.
2004. AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES/NATIONAL ASSOCIATION OF BIOLOGY TEACHERS, Chicago. Evolutionary Science and Society: Educating a New Generation. Organizer.
2004. SOCIETY OF INTEGRATIVE AND COMPARATIVE BIOLOGY, New Orleans. Invited symposium: Being good in science, biopolitics, and mentorship: How to become a Marvalee Wake and move mountains (a talk on homology, Evo-Devo, and systematics).
2004. SOCIETY OF MOLECULAR BIOLOGY AND EVOLUTION. Invited plenary. A Molecular Time-Scale for Avian Diversification
2004. SOCIETY OF MOLECULAR BIOLOGY AND EVOLUTION. A molecular time scale for avian diversification: the largest avian order (Passeriformes). F. Keith Barker and Joel Cracraft
2004. SYSTEMATICS SOCIETY OF MEXICO. Xalapa, Mexico. Invited plenary.
2004. FRENCH SOCIETY OF SYSTEMATICS. Paris. Invited plenary.
2005. DIVERSITAS OPEN SCIENCE CONFERENCE, Oaxaca, Mexico. Knowledge of the Tree of Life: an essential foundation for biodiversity science and a sustainable world
2006. CBD/COP8 WORKSHOP ON BIODIVERSITY AS MEGASCIENCE. Curitiba, Brazil.
2006. North American Ornithological Congress, Veracruz, Mexico. symposium organizer
2006. JAPAN, KYUSHU UNIVERSITY, Department of Biology, Diversitas Symposium. Linking rates of diversification to Earth history (invited).
2006. EUROPEAN MOLECULAR BIOLOGY ORGANIZATION/Barcode of Life, Molecular biodiversity and DNA barcode. Barcoding, metagenomics, and inventorying Earth's species: systematic method should frame our strategy (invited)
2007. DIVERSITAS BIOGENESIS WORKSHOP: Roots, branches and leaves: integrating the tree and barcodes of life (co-organizer). National Evolutionary Synthesis Center, Durham, North Carolina. 2007.
2008. NATIONAL ASSOCIATION OF BIOLOGY TEACHERS, Organizer of workshop for teachers. Principles of biogeography. 2008
2008. NATIONAL ACADEMY OF SCIENCES. Symposium: Potential impacts of high-end capability computing. Major challenges of evolutionary biology and their reliance of high-end capability computing (invited)
2008. FUNDAÇÃO DE AMPARO À PESQUISA DO ESTADO DE SÃO PAULO (FAPESP), Sao Paulo, Brazil. DIVERSITAS bioGENESIS symposium. Deciphering the history of

Amazonian diversity.

2009. BRAZILIAN CONGRESS OF ORNITHOLOGY, Vitoria, Brazil. Recent advances in avian phylogeny. (Plenary, invited).
2009. BRASIL ORNITHOLOGICAL CONGRESS, Challenges to understanding the biogeographic history of South America. Vitoria. (Plenary, invited).
2009. COLUMBIA UNIVERSITY, DARWIN LECTURE. Darwin's promise: the centrality of modern biology in achieving a sustainable world (invited)
2009. UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO, FACULTY OF SCIENCE, DARWIN LECTURE: Darwin's promise: the centrality of modern biology in achieving a sustainable world (invited)
2009. UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO, INSTITUTO DE BIOLOGÍA. Title: Thoughts about the diversification, taxonomic assembly, and biogeography of the South American Biota (invited)
2010. SOCIETY OF SYSTEMATIC BIOLOGISTS SYMPOSIUM (co-organizer), The Future of Historical Biogeography: Conceptual and Methodological Challenges. Paper presented: Historical biogeographic analysis: overcoming the conceptual and methodological challenges.
2011. INTERNATIONAL CONGRESS ANTARCTIC EARTH SCIENCES, Edinburgh, Scotland Invited keynote: When did Madagascar/India finally separate from East Antarctica? Integrating tectonics and biogeography.
2012. BIOGENESIS WORKSHOP ON EVOLUTION FOR STUDENTS, Association of Tropical Biology and Conservation, Bonito, Brazil. Invited talk, Methods in biogeography.
2012. ASSOCIATION OF TROPICAL BIOLOGY AND CONSERVATION, Bonito, Brazil. Invited plenary talk: Reconstructing the history of ecological assemblages at different spatiotemporal scales: an evolutionary approach.
2012. ASSOCIATION OF TROPICAL BIOLOGY AND CONSERVATION, Bonito, Brazil. Symposium co-organizer (with Lucia Lohmann): The assembly and evolution of the Amazonian biota.
2013. THE SCOTIA ARC: GEODYNAMIC EVOLUTION AND GLOBAL IMPLICATIONS, A SYMPOSIUM, Granada, Spain. May 14-16, 2013. Biogeographic connections between Zealandia and the New World: The role of West Antarctica and the Scotia Arc.
2013. ASSOCIATION OF TROPICAL BIOLOGY AND CONSERVATION, San Jose, Costa Rica. Invited symposium (Geo-genomics: integrating geology and genetics to understand the evolution of Neotropical diversity. Paper presentation (6/25/13): How do we link biotic history and Earth history? An example from Amazonia (with Camila Ribas).
2013. AMERICAN ORNITHOLOGISTS' UNION MEETING, Chicago, Illinois, 14 August 2013. Invited symposium speaker: The assembly of the North American avifauna. Title of presentation: The assembly of the North American avifauna: theory, method, and empirical approaches (J. Cracraft, C. Sanin, S. Claramunt, B. T. Smith).
2013. AMERICAN ORNITHOLOGISTS' UNION MEETING, Chicago, Illinois, 14 August 2013. Invited symposium speaker: The assembly of the North American avifauna. Title of presentation: Large-scale biogeography of the North American avifauna (B. T. Smith, J. Cracraft)
2014. ASSOCIATION FOR TROPICAL BIOLOGY AND CONSERVATION, Cairns, Australia. Plenary talk.
2014. AMERICAN ORNITHOLOGISTS UNION, Co-organizer symposium:

2014. Cuervo, A. M.; Aleixo, A.; Bravo, G. A.; Brumfield, R. T.; Chesser, T.; Cracraft, J.; Moyle, R.; Silveira, L. F.; Harvey, M. G.; Derryberry, E. P. Phylogenomics of the pantropical radiation of suboscine passerines (Abstract ID:16239) 9/26/14 oral  
2015. SOCIETY OF SYSTEMATIC BIOLOGISTS, invited symposium paper  
2015. NEOTROPICAL ORNITHOLOGICAL SOCIETY, Manaus, Brazil, plenary address  
2019. INPA, Manaus, Brazil, invited plenary lecture. 2 July 2019. Title of talk:  
2019. MISSOURI BOTANICAL GARDEN, St. Louis, MO, invited symposium paper.  
1 October 2019. Title of talk: The impact of Earth history on diversification of the Amazonian biota: toward an integrated synthesis.

## TEACHING

### University of Illinois at Chicago

Human anatomy

Systematics

### City University of New York

Biodiversity and Biological Diversification

Topics in African Conservation

### Columbia University

Biodiversity Policy: Topics in African Conservation

Biogeography

Diversity and Diversification

Systematics

Fundamentals of Ecology and Evolution

### Richard Gilder Graduate School (AMNH)

Systematics

Evolution

Biogeography

## STUDENTS

Graduate Students at University of Illinois: Cyrus Helmi (Masters), Bruce Manion, Sharon Simpson

Postdoctoral Fellows at AMNH: Shannon Hackett, Gary Nunn, Neal Caithness, Scott Stanley, Anwar Janoo, Alice Cibois, Kathleen Earls, Gareth Dyke, Fabian Michelangelli, Amy Berkov, Robert Moyle, Devorah Bennu, Jose Tello, Camila Ribas, Caroline Chaboo, Estelle Bourdon, Santiago Claramunt, Brett Benz, Jerry Huntley, Ning Wang, Lukas Musher

Graduate Students at AMNH/CUNY and Columbia (Major Professor): Alejandro Espinosa, Pamela Beresford, Sushma Reddy, Ana Luz Porzecanski, Maria Esther Quintero, Snorri Sigurdsson, Camilo Sanin, Brian Weeks, Jacqueline Barry, Lais Coelho, Lukas Musher

## PUBLICATIONS

### BOOKS

1979. Phylogenetic analysis and paleontology (J. Cracraft and Niles Eldredge, eds).  
Columbia University Press, New York.
1980. Phylogenetic patterns and the evolutionary process: method and theory in comparative biology. (N. Eldredge and J. Cracraft). Columbia Univ. Press, New York.
1991. Phylogenetic analysis of DNA sequences (M. M. Miyamoto and J. Cracraft, eds.).  
Oxford Univ. Press, New York.
1999. The Living Planet in Crisis: Biodiversity Science and Policy (J. Cracraft and F. Grifo, eds.).  
Columbia University Press, New York.
2004. Assembling the tree of life (J. Cracraft and M. J. Donoghue, eds.). Oxford Univ.  
Press, New York. 576 pp.
2005. Evolutionary science and society: educating a new generation (J. Cracraft and R. Bybee, eds.).  
Biological Sciences Curriculum Study, Colorado Springs, CO.

### CONTRIBUTIONS TO REPORTS

1991. Systematics Agenda 2000: Integrating biological diversity and societal needs. *Syst. Zool.* 40: 520-523; *Syst. Bot.* 16:758-761.
1994. Systematics Agenda 2000: Charting the Biosphere. Privately published by Systematics Agenda 2000.
1994. Systematics Agenda 2000: Charting the Biosphere. Technical Report. Privately published by Systematics Agenda 2000.
1995. United Nations Environment Programme. Global Biodiversity Assessment. Cambridge Univ. Press, Cambridge.
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