

CURRICULUM VITAE

Dr. Robert Martin Zink

August 2020

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Education

University of California, Berkeley. Ph.D. 1983.
University of Minnesota, Minneapolis. B.S. 1977.

Research Interests

Evolutionary genetics of birds; evolutionary significance of geographic variation; speciation; phylogeny; phylogeography; conservation genetics.

Professional Experience

2016 - present Professor, School Natural Resources and School Biological Sciences, Curator Nebraska State Museum

1997-2015 Breckenridge Chair in Ornithology, Bell Museum; Professor of Ecology, Evolution, and Behavior, Univ. Minnesota; Curator of Birds.

1993-1997 Breckenridge Chair in Ornithology, Bell Museum; Associate Professor of Ecology, Evolution, and Behavior, Univ. Minnesota; Acting Curator of Birds.

1989-1993 Associate Curator in Biochemical Systematics and Adjunct Associate Professor of Zoology and Physiology, Louisiana State University, Baton Rouge.

1984-1989 Assistant Curator in Biochemical Systematics and Adjunct Assistant Professor of Zoology and Physiology, Louisiana State University.

1984 Lecturer and Acting Curator of Birds, University of

Minnesota (Spring Quarter).

- 1983 - 1984 Chapman Post-Doctoral Fellow, American Museum of Natural History, New York.
- 1978 - 1983 Curatorial Assistant, Graduate Research Assistant, and Staff Research Associate in Ornithology; Museum of Vertebrate Zoology, University of California, Berkeley.
- 1972 - 1977 Curatorial and Research Assistant in Ornithology, Bell Museum of Natural History, University of Minnesota, Minneapolis, Minnesota.

Teaching Experience

- 2019 Applied Ornithology, Avian Biology (UNL)
- 2018 Avian Biology, UNL
- 2017 Evolution: capstone course, UNL
- 2014 Writing about science for the general public (1 cr. graduate seminar)
- 2007-2015 Evolution (macroevolution half)
- 1995-2015 Ornithology, Field Ornithology (Lake Itasca, MN 1997-2006), Principles of Systematics (3 yrs),
- 1985-1993 General Zoology, Systematic Biology (Graduate course), Graduate Seminars, Evolution
- 1984 Introductory Ornithology, University of Minnesota.
- 1980 Natural History of Vertebrates, University of California, Teaching Associate.
- 1977 - 1980 General Biology (3 quarters), Embryology (1 quarter), Natural History of Vertebrates (3 quarters); University of California, Berkeley, Teaching Assistant.
- 1975 Field Ornithology, Univ. of Minnesota, Teaching Assistant.

Student Advising

UNL (2016-) Brittaney Buchanan, M.S.

LSU (1984-1993). Served on 14 Ph.D. and 7 M.S. committees. Major Professor for 4 M.S. degrees (Bates, Hackett, Burns, Gerwin), two Ph.D. degrees (S. Hackett, J. Bates).

Univ. Minnesota:

Ph.D. Student Major Professor (year graduated)

Josie Griffin (Current)
Hernan Vazquez-Miranda (2014) (co-advised with Barker)
Chih-Ming Hung (2012)
Bailey McKay (2011)
Brian Barber (2007)
John Klicka (1999)
Ann Kessen (2004)
Andy Jones (2006)
Alexandra Pavlova (2005)
Matt Etterson (co-advisor; 2000)
Amanda Vinson (co-advisor; 2005)

Ph.D. Student Committees (year graduated)

Berendzen, Peter B (2005)
Bridge, Eli (2004)
Chisholm, Linda (abd)
Eaton, Muir Daniel (2004)
Gamble, Anthony Blake (2008)
Gugger, Paul (2011)
Johnson, Kevin Paul (1997)
Lowe, Benjamin (2015)
Luxbacher, Amy Marie (2014)
Markle, Tricia Marie (2015)
Mason Dentinger, Bryn (2007)
Nichols, Kathryn (abd)
Pletcher, Scott (1998)
Port, Jeffrey Lane (1998)
Roche, Erin A (2010)
Simmons, Rebecca Barr (2001)
Thompson, Sarah Jean (2013)
Wilson, Robert Edward (2002)
Winn, Wendy (2006)

M.S. Advisor

Jason Weckstein (1997)
Adam Fry (1997)
Alison Chubb (1998)

M.S. committee member

Gruber, Karl Frederick (2006)
Chisholm, Linda C (2007)
John Sammler (2001)
Daniela Blini (2011)

Undergraduate projects advised

Karina Kartak, Nancy Novitch, Grant McCormack (2013-14), Greg Russ (2013-2015), Grant McCormack (2014), Aubrey Gardner (2014)

Honors and Awards

Elected to Sigma Xi, 1981.

Board of Directors Award for an outstanding student paper presented at 1981 meeting of Cooper Ornithological Society.

Barody Student Paper Award for paper presented at annual meeting of American Ornithologists' Union, 1981.

Board of Directors Award for an outstanding student paper presented at 1982 meeting of Cooper Ornithological Society.

Marcia Brady Tucker Student Travel Award, American Ornithologists' Union, 1982.

Voted Elective Member, American Ornithologists' Union, 1985.

Voted Fellow, American Ornithologists' Union, 1988.

Voted Councilor, American Ornithologists' Union, 1992-1995

Elected Vice President, American Ornithologists' Union 1996

Stanley Dagley-Samuel Kirkwood Undergraduate Education Award, 2002

Brewster Medal, American Ornithologists' Union, 2005

(http://aou.org/awards/awards_2005.php3).

Katma Award, 2015, Cooper Ornithological Society;

<http://americanornithology.org/content/2015-katma-award>

Invited Lectures

1985 University of Houston

1986 Wayne State University, U. S. Savannah River Ecology Lab

1987 University of Toronto; Louisiana Ornithological Society

1988 University of Texas, Austin; University of Minnesota, Minneapolis;

University of Southwestern Louisiana; University of New Orleans;

Los Angeles County Museum; University of Missouri, Columbia;

- University of North Dakota; U. S. F & W, Jamestown, North Dakota.
1989 Oklahoma State University; University of Michigan; University of Uppsala, Sweden.
1990 Texas A & M Univ., University of Hawaii (Honolulu)
1991 Tulane University, Univ. No. Illinois
1992 University of Minnesota, Academy Natural Sciences (Philadelphia), Florida State University (two seminars), Skidmore College
1993 Univ. of Wisconsin, Madison
1994 Univ. of Mexico; U.S. Nat'l. Zoo.
1995 Univ. of Washington, local Audubon societies, Univ. Calif. Riverside, Univ. Calif. Santa Barbara, Univ. Nevada Reno, So. Dakota State (declined)
1996 Univ. So. Ill. Carbondale, Iowa State, Linnaean Soc. (London), Univ. Glasgow, Wake Forest University, Univ. Nevada Las Vegas
1997 Washington State Univ., State Univ. New York at Albany
1998 Darwin Museum, Moscow, Russia; Fundacion Arceces, Madrid, Spain; Symposium: International Prize in Biology, Hayama, Japan; Tracy Aviary, Salt Lake City; Dept. Biology U Utah.
2000 Dept. Ornithology, American Museum of Natural History; Dept. Genetics, Univ. Nottingham
2001 Dept. Biology, San Diego State University; Museo de Zoologia, Univ. Nat. Auto de Mexico.
2002 SCIB invited symposium speaker (Los Angeles); Dept. Ornithology American Museum Natural History; Division Zoology, Field Museum (Chicago); St. Thomas University (St. Paul); USFW Nat. Conserv. Training Center.
2003 Royal Society, London; University of Michigan; University of Idaho; Plenary speaker, American Ornithologists' Union, Univ. Illinois.
2004 Nat. Assoc. Biol. Teachers, invited symposium talk.
2005 (a) Plenary lecture, No. Amer. Arctic Goose Conf. (Reno); (b) Plenary, USFW Meeting, Davenport, IA; (c) Invited Symposium Speaker in conference, Primate diversity: Past, present and future, Göttingen (Germany); (d) invited seminar in Endangered Species Act Conference, continuing Legal Education, California; (e) Workshop faculty USFW "genetics and taxonomy of endangered species workshop", Washington D.C.; (f) Departmental Biology Invited Seminar Univ. Nevada, Las Vegas, (g) Ornithology Dept. American Museum Natural History, New York; (h) Wheeler lecturer, Dept. Biology, University North Dakota.
2006 Univ. of Nebraska
2007 Univ. of Memphis, Drake University (Iowa), International Biogeog. Symposium (Tenerife) - declined

- 2008 Univ. of Northern Iowa, University of New Orleans
- 2009 Natural History Museum, Oslo, Norway; Darwin Now, Alexandria, Egypt
- 2010 Univ. Groenigen, Netherlands; CIBIO, Portugal; Gibraltar Museum, Gibraltar; TX DOT - Black-capped Vireo; San Diego State Univ.
- 2011 Carleton College; Taiwan Normal University (Taipei); Taiwan Endemic Species Research Institute (JiJi); Taiwan Natural History Museum (Taichung)
- 2012 Iowa State Univ.
- 2013 Cesar Kleberg Institute, Texas A&M Kingsville; Biology Dept. St John's University (MN); Minnesota Ornithologists' Union; Minnesota River Valley Audubon Chapter;
- 2014 Nuttall Club, Harvard University; CeCesi, Ensenada, Baja California (Invited symposium talk).
- 2015 University of California Berkeley (declined); University of Nebraska Lincoln.
- 2016 Auburn University
- 2018 South Dakota Wildlife Society (Banquet speaker)

Papers Presented at Scientific Meetings

- 2019 Wildlife Society (co-author)
- 2018 Wildlife Society (co-author)
- 2016 American Ornithologists' Union (invited symposium, contributed)
- 2014 American Ornithologists' Union (co-convened symposium, presented)
- 2012 American Ornithologists' Union
- 2011 American Ornithologists' Union (1 co-authored paper), Geol. Soc. America (invited symposium speaker),
- 2010 American Ornithologists' Union (1 co-authored paper), Midwest Fish & Wildlife Conference (invited symposium talk)
- 2009 American Ornithologists' Union (1 co-authored paper), Minnesota Ornithologists' Union
- 2008 AOU, Evolution Society, Zvenigorod Biol. Station, Moscow, Russia
- 2006 American Ornithologists' Union (1 paper)
- 2005 American Ornithologists' Union (1 poster)
- 2004 American Ornithologists' Union, Quebec (1 paper)
- 2003 American Ornithologists' Union, Illinois (3 papers)
- 2002 American Ornithologists' Union, New Orleans (4 papers)
- 2001 American Ornithologists' Union, Seattle (3 papers)
- 1999 American Ornithologists' Union, Cornell (2 papers)
- 1998 International Ornithological Congress, Durban, South Africa (2)

- 1997 Evolution Society, American Ornithologists' Union (2 papers)
1996 American Ornithologists' Union (3 papers)
1995 American Ornithologists' Union (2 papers)
1994 American Ornithologists' Union, Evolution Society
1993 American Ornithologists' Union (symposium), Evolution Society,
Lepidopterists Soc.
1992 American Ornithologists' Union, Evolution Society
1991 American Ornithologists' Union
1990 Hawaii Dept. Land & Natural Resources (Workshop), Internat.
Ornith. Congr. (New Zealand)
1989 American Ornithologists' Union (2 papers)
1988 American Ornithologists' Union
1987 American Ornithologists' Union (2 papers)
1986 International Ornithological Congress (1 paper; 2 symposia),
American Ornithologists' Union (1 paper; 1 symposium).
1985 Cooper Ornithological Society; Evolution Society Meeting;
American Ornithologists' Union (2 papers).
1983 American Ornithologists' Union (2 papers).
1982 Numerical Taxonomy Conference, Notre Dame; American
Ornithologists' Union, Chicago; Cooper Ornithological Society,
Logan (3 papers).
1981 Cooper Ornithological Society, Logan (3 papers); American
Ornithologists' Union, Edmonton (2 papers).

Grants Funded

- 2018 Pope and Young Club
2016 Nebraska Game and Parks Commission. Wildlife Genetics.
2009 Dissertation research: A multilocus, multi-species study of
community assembly in an isolated fauna, \$15K, for Bailey McKay
2009 a. National Science Foundation, Testing Simultaneous Divergence
of Isolated Avian Populations in the Caucasus, 2009-2012,
\$549,500. Zink, PI.
b. Texas Parks and Wildlife, Resolving the conservation genetics
of the Black-capped Vireo (*Vireo atricapilla*) with nuclear gene
sequences, 2010-2012, \$88,395; Zink, PI.
2007 Nossman and Co. (California), Nuclear Gene Tests of the Existence
of Distinct Population segments in the California Gnatcatcher
(*Polioptila californica*): implications for conservation, 1 year,
\$82,324
2002 NSF, Comparative Phylogeography of Eurasian Birds, 3 years,
\$275,000 (Sievert Rohwer, U Washington, co-PI).
1997 NSF Phylogeographic consequences of different paleoecological

- histories in Eurasian and North American avifaunas; 2 yrs,
\$120,000.
- 1996 NSF-REU supplement for undergrad research, \$5,000
- 1995 Conservation Genetics of the California Gnatcatcher; Chevron,
\$90,000 (12 months)
- 1995 NSF-REU supplement for undergrad research, \$5,000
- 1995 Texas A&M University - Genetic studies of pygmy owls (\$5,000)
- 1994 NSF, Avian Evolution in the Aridlands of North America;,
\$190,000; 3 years; including REU support for undergraduate
research, \$5,000
- 1991 LEQSF & NSF, Development of an Interdisciplinary Center in
Molecular Evolution (with 12 others). 1992-1995.
(\$1,300,000). Not available to RMZ after 3/1993.
- State of Hawaii, Division of Aquatic Resources: mtDNA variation
and conservation of Hawaiian freshwater fishes (\$120K; 2 yrs.,
with J. M. Fitzsimons).
- 1990 Louisiana Board of Regents. (\$5,000). Seminar program in
biodiversity (with J. Neigel). 1 yr.
State of Hawaii, Division of Aquatic Resources: mtDNA variation
and conservation of Hawaiian freshwater fishes (\$38.5K; 2 yrs.,
with J. M. Fitzsimons)
- 1989 Louisiana Board of Regents. (\$5,000). Seminar program in
Systematics and Evolutionary Biology (with J. Neigel). 1 yr.
- 1989 NSF, The Geography of Allozyme and Mitochondrial DNA variation
in three sympatric sparrows. (\$180,000), 1989-1992.
- 1989 NSF, Support for the LSU Frozen Tissue Collection (\$160,000).
1989-1992.
- 1988 NSF (EPSCoR), Interdisciplinary Program in Molecular Evolution
(\$50,000) (with D. P. Pashley, E. A. Zimmer).
- 1987 State of Louisiana and LSU, (\$464,000). Development of an
Interdisciplinary program in molecular evolution (with D. P.
Pashley and E. A. Zimmer); 5 years.

Panels/Site Visits

- 1990 NSF Postdoctoral Panel (declined same panel in 1991,2)
- 1993-9 6 NSF Systematic Biology Panels
- 1997 NSF Committee of Visitors
- 2000 NSF "NEON" workshop
- 2001 Review of Max Planck Institute at Tübingen, Germany
- 2003 Declined NSF Survey's and Inventories
- 2005 Review of Dept. Biology, Univ. Alaska, Anchorage

Professional Societies

American Ornithological Society, Society for the Study of Evolution, Wildlife Society

Service at LSU: 1984-1993

Coordinator, Interdepartmental Studies in Systematics and Evolutionary Biology (1988-90).

Secretary for Systematic Biology Program (1984-1987)

LSU Museum of Zoology: Recording Secretary at Staff Meetings (1984-89); Computer Committee (Chairman); Occasional Paper Series (Editor);

Service at Minnesota: 1993 - 2015

Seminar Committee (1993-1994); Grad Prelim Committee; Dept. Advisory Committee (1995-6; elected); Chair, Dayton-Wilkie Grant Committee (1997-2014); Chair 4 job-search committees, member 5 job-search committees; member Bell Management Team (2000-2004); CBS P&T committee (2003-2005); EEB P&T committee (2005-2011; chair)

Service to Societies

Manuscripts reviewed for: American Naturalist, The Auk, Wilson Bulletin, Condor, Ornith. Monographs, Systematic Zoology/Biology, Evolution, Canadian J. Zoology, Aust. J. Zool., Southwestern Naturalist, Ecology, Herpetologica, J. Field Ornithology, PNAS, Univ. Cal. Publ. Zool., Molecular Ecology, Molecular Phylogenetics and Evolution, J. Heredity, J. Avian Biology, Molecular Biology & Evolution, BioScience, Nature, Science, Biology Letters, J. Ornithology, PlosOne, Current Biology, Nature Communications
Cooper Ornithological Society, member of Katma committee, 2012-2016.
American Ornithologists' Union Committee on Student Awards (1985-1987, member; 1988 - 94, Chairman); Collections (1989-1993); Senior Awards (2006-7)
Program co-Chairman, 1986 Annual Meeting American Ornithologists' Union
Regular reviewer of grant proposals for NSF (three divisions)
Organized Symposium 1986, 1993, 2014 AOU Meetings, 1990 Int. Ornith. Congress; 1998 IOC So. Africa

Editorial Service

Associate Editor Systematic Zoology (1986-1992)

Book Review Editor, Auk (1993 - 1996)

Associate Editor Evolution (1994-1996)
Associate Editor Auk (1995 - 2001; 2003 - 2005)
Associate Editor Molecular Ecology (2001-2008)
Editorial Board: Systematic Biology (2002-2015)
Associate Editor: Animal Conservation (2006-2011)

Field Experience

United States: Minnesota, South Dakota, California, Oklahoma, Oregon, Nevada, Montana, Arizona, Texas, Maine, Louisiana, Alaska.
Canada: Alberta, Newfoundland, Manitoba, Saskatchewan, Yukon, British Columbia.
Mexico: many states including Baja California and BC Sur.
Central America: Costa Rica.
South America: Chile, Peru, Ecuador, Paraguay.
Antarctica: many regions, mainly pelagic.

Peer reviewed publications

1975

Bolen, E. G., C. Cottam, & R. M. Zink. Sabine's Gull on South Texas Coast. Southwestern Naturalist 20:135-136.

1977

Zink, R. M. Winter observations of Brown Pelicans in Veracruz, Mexico. Auk 94:588.

Timm, R. M., & R. M. Zink. Arthropods consumed by an immature Marbled Godwit. Prairie Naturalist 9:11-12.

1980

Zink, R. M., & J. L. Eldredge. Why does Wilson's Petrel have yellow on the webs of its feet? British Birds 73:385-387.

Dickerman, R. W., R. M. Zink, & S. L. Frye. Migration of the Purple Martin in southern Mexico. Western Birds 11:203-204.

1981

Zink, R. M. Observations of seabirds on a cruise from Ross Island to Anvers Island, Antarctica. *Wilson Bulletin* 93:1-20.

Barrowclough, G. F., K. W. Corbin, & R. M. Zink. Genetic differentiation in the Procellariiformes. *Comparative Biochemistry & Physiology* 69B:629-632.

Zink, R. M. Notes on birds of the Weddell Sea, Antarctica. *le Gerfaut* 71:59-74.

1982

Zink, R. M. Patterns of genic and morphological variation among sparrows in the genera *Zonotrichia*, *Melospiza*, *Junco*, and *Passerella*. *Auk* 99:632-649.

1983

Gutiérrez, R. J., R. M. Zink, & S. Y. Yang. Genic variation, systematic, and biogeographic relationships among some galliform birds. *Auk* 100:33-47.

Zink, R. M. Evolutionary and systematic significance of temporal variation in the fox sparrow. *Systematic Zoology* 33:223-238.

Johnson, N. K., & R. M. Zink. Speciation in sapsuckers (*Sphyrapicus*). I. Genetic differentiation. *Auk* 100:871-884.

Zink, R. M., & D. W. Winkler. Genetic and morphological similarity of two California Gull populations with different life history traits. *Biochem. Syst. Ecol.* 11:397-403.

1984

Zink, R. M., & N. K. Johnson. Evolutionary genetics of flycatchers. I. Sibling species in the genera *Empidonax* and *Contopus*. *Systematic Zoology* 33:205-216.

Zink, R. M., & G. F. Barrowclough. Allozymes and song dialects: a reassessment. *Evolution* 38:444-448.

Johnson, N. K., R. M. Zink, G. F. Barrowclough, & J. A. Marten. Suggested techniques for modern avian systematics. *Wilson Bulletin* 96:543-560.

1985

Barrowclough, G. F., N. K. Johnson, & R. M. Zink. On the nature of genic variation in birds. Pp. 135-154, in *Current Ornithology*, vol. 2, (R. F. Johnston, ed.). Plenum Press, New York.

Mumme, R. L., W. D. Koenig, R. M. Zink, & J. A. Marten. Genetic variation and parentage in a California population of Acorn Woodpeckers. *Auk* 102:305-312.

Zink, R. M. Genetic population structure and song dialects in birds. *The Behavioral and Brain Sciences* 8:118-119.

Johnson, N. K., & R. M. Zink. Genetic evidence on the relationships of *Vireo olivaceus*, *chivi*, and *flavoviridis*. *Wilson Bulletin* 97:421-435.

Zink, R. M., M. F. Smith, & J. L. Patton. Associations between heterozygosity and morphological variance. *J. of Heredity* 76:415-420.

1986

Zink, R. M. Patterns and evolutionary significance of geographic variation in the Schistacea group of the Fox Sparrow (*Passerella iliaca*). *Ornith. Monographs* 40:1-119.

Zink, R. M., & J. V. Remsen, Jr. Evolutionary processes and patterns of geographic variation in birds. *Current Ornithology* 4:1-69.

1987

- Zink, R. M., & D. J. Watt. Allozymic correlates of dominance rank in sparrows. *Auk* 104:1-10.
- Zink, R. M., D. Anderson, & D. Lott. Genetic variation, population structure and evolution of California Quail. *Condor* 89:395-405.
- Lanyon, S. M., & R. M. Zink. Genetic variation in piciform birds: Monophyly and generic and familial relationships. *Auk* 104: 724-732.
- Karl, S. A., R. M. Zink, & J. R. Jehl, Jr. Allozyme analysis of the California Gull (*Larus californicus*). *Auk* 104:767-769.

1988

- Zink, R. M. Evolution of brown towhees: allozymes, morphometrics and species limits. *Condor* 90:72-82.
- McKittrick, M. C., & R. M. Zink. Species concepts in ornithology. *Condor* 90:1-14.
- Johnson, N. K., R. M. Zink, & J. A. Marten. Genetic evidence for relationships in the avian family Vireonidae. *Condor* 90:428-445.
- Avise, J. C., and R. M. Zink. Molecular genetic divergence between avian sibling species: King and Clapper rails, Long-billed and Short-billed dowitchers, Boat-tailed and Great-tailed grackles, and Tufted and Black-crested titmice. *Auk* 105:516-528.

1989

- Dittmann, D. L., R. M. Zink and J. A. Gerwin. Evolutionary genetics of phalaropes. *Auk* 106: 326-331.
- Gerwin, J. A., and R. M. Zink. Phylogenetic patterns in the genus *Heliodoxa* (Aves: Trochilidae): An allozymic perspective. *Wilson Bulletin*. 101:525-544.

1990

- Fitzsimons, J. M., R. M. Zink, & R. T. Nishimoto. Genetic variation in the Hawaiian Stream Goby, *Lentipes concolor*. *Biochem. Syst. Ecol.* 18:81-83.
- Burns, K. J., & R. M. Zink. Temporal and geographic homogeneity of gene frequencies in the fox sparrow (*Passerella iliaca*). *Auk* 107:421-425.
- Zink, R. M., & J. C. Avise. Patterns of mitochondrial and allozyme variation in the avian genus *Ammodramus*. *Systematic Zoology* 39:148-161.
- Zink, R. M., & T. J. Klicka. Genetic variation in the Common Yellowthroat and some allies. *Wilson Bulletin* 102:514-520.

1991

- Zink, R. M., and D. L. Dittmann. Evolution of Brown Towhees: mitochondrial DNA evidence. *Condor* 93: 98-105.
- Zink, R. M. Evolution of mitochondrial DNA in two sympatric sparrows. *Evolution* 45:329-339.
- Zink, R. M., W. L. Rootes, & D. L. Dittmann. Mitochondrial DNA variation, population structure, and evolution of the Common Grackle (*Quiscalus quiscula*). *Condor* 93:318-329.
- Zink, R. M., D. L. Dittmann, & W. L. Rootes. Mitochondrial DNA variation and the phylogeny of *Zonotrichia*. *Auk* 108:578-584.
- Dittmann, D. L., and R. M. Zink. Mitochondrial DNA variation among phalaropes and allies. *Auk* 108: 771-779.
- Zink, R. M., D. L. Dittmann, S. W. Cardiff, & J. D. Rising. Mitochondrial DNA variation and the taxonomic status of the large-billed Savannah Sparrow. *Condor* 93:1016-1019.

1992

Bates, J. M., & R. M. Zink. Temporal variation in gene frequencies in the House Sparrow. *Auk* 109:658-662.

Winker, K., R. J. Oehlenschläger, M. A. Ramos, R. M. Zink, J. H. Rappole, and D. W. Warner. Avian distribution and abundance records for the Sierra de Los Tuxtlas, Veracruz, Mexico. *Wilson Bulletin* 104:699-718.

1993

Zink, R. M., & D. L. Dittmann. Gene flow, refugia, and evolution of geographic variation in the song sparrow (*Melospiza melodia*). *Evolution* 47:717-729.

Zink, R. M., and D. L. Dittmann. Population structure and gene flow in the Chipping Sparrow (*Spizella passerina*), and a hypothesis for evolution in the genus *Spizella*. *Wilson Bulletin* 105:399-413.

1994

Zink, R. M. Geographic history of mitochondrial DNA evolution, population structure, and hybridization in the Fox Sparrow (*Passerella iliaca*). *Evolution* 48:96-111.

Bates, J. M., and R. M. Zink. Evolution into the Andes: molecular evidence for species relationships in the genus *Leptopogon*. *Auk* 111:507-515.

Chesser, R. T., and R. M. Zink. Modes of speciation in birds: An application of Lynch's (1989) method. *Evolution* 48:490-497.

1995

Zink, R. M., and J. Slowinski. Tempo of avian diversification in the Pleistocene. *Proc. Natl. Acad. Sci.* 92: 5832-5835.

Zink, R. M., S. A. Rohwer, A. V. Andreev, & D. L. Dittmann.

Trans-Beringia comparisons of mitochondrial DNA differentiation in birds. *Condor* 97:639-649.

Zink, R. M., and H. W. Kale. Conservation genetics of the extinct dusky seaside sparrow. *Biol. Cons.* 74:69-71.

Freeman, S. and R. M. Zink. The phylogeny of the blackbirds estimated from restriction sites in mitochondrial DNA. *Systematic Biology* 44:410-421.

Dodge, A. G., A. J. Fry, R. C. Blackwell, and R. M. Zink. Comparison of phylogenies derived from two molecular data sets in the avian genera *Pipilo* and *Spizella*. *Wilson Bulletin* 107:641-654.

Zink, R. M. and M. C. McKittrick. The debate over species concepts and its implications for ornithology. *Auk* 112:701-719.

1996

Zink, R. M. Comparative phylogeography of North American birds. *Evolution* 50:308-317.

Zink, R. M., J. M. Fitzsimons, D. L. Dittmann, D. R. Reynolds, and R. T. Nishimoto. Evolutionary genetics of Hawaiian freshwater fish. *Copeia* 1996:330-335.

Zink, R. M. Species concepts, speciation and sexual selection. *J. Avian Biol.* 27:1-6.

Zink, R. M., & R. C. Blackwell. Patterns of allozyme, mitochondrial DNA, and morphometric variation in four sparrow genera. *Auk* 113:59-67.

Zink, R. M. [Scientific Correspondence] Bird species diversity. *Nature* 381:566.

1997

Zink, R. M., R. C. Blackwell, & O. Rojas S. Species limits in the LeConte's Thrasher. *Condor* 99:132-138.

Cohen, B. L., A. J. Baker, K. Blechschmidt, D. L. Dittmann, R. W. Furness, J. A. Gerwin, A. J. Helbig, J. de Korte, H. D. Marshall, R. L. Palma, H.-U. Peter, R. Ramli, M. S. Willcox, R. H. Wilson, and R. M. Zink. Enigmatic phylogeny of Skuas (Aves: Stercorariidae). Proc. Roy. Soc. London B 264:181-190.

Zink, R. M. Species concepts. Bull. Brit. Ornithol. Club. 117:97-109.

Klicka, J. T., and R. M. Zink. The importance of recent ice ages in speciation: A failed paradigm. Science 277:1666-1669.

1998

Zink, R. M., & R. C. Blackwell. Molecular systematics and biogeography of aridland gnatcatchers (genus *Polioptila*), and evidence supporting species status of the California Gnatcatcher (*P. californica*). Mole. Phylo. Evol. 9:26-32.

Gerwin, J. A., and R. M. Zink. Phylogenetic patterns in the Trochilidae. Auk 115:105-118.

Zink, R. M. and R. C. Blackwell. Molecular systematics of the scaled quail complex (Genus *Callipepla*). Auk 115:394-403.

Chubb, A. L., R. M. Zink, J. M. Fitzsimons. Patterns of mitochondrial DNA variation in Hawaiian freshwater fishes: the phylogeographic consequences of amphidromy. J. Heredity 89:8-16.

Bedekar, A., Zink, R. M., Sherman, D. H., Line, T. V., and Van Pilsum, J. F. The comparative amino acid sequences, substrate specificities and gene or cDNA nucleotide sequences of some prokaryote and eukaryote amidinotransferases: implications for evolution. Comp. Biochem. Physiol. B 119:677-690.

Zink, R. M., S. J. Weller, and R. C. Blackwell. Molecular phylogenetics of the avian genus *Pipilo* and a biogeographic

argument for taxonomic uncertainty. *Mole. Phylo. Evol.* 10:191-201.

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