

## CURRICULUM VITAE

Mary V. Ashley

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### Education

B.A. (Biology), Kenyon College, Gambier, Ohio 1981 (cum laude)

Ph.D. (Biology), University of California at San Diego, La Jolla, California, 1986

Dissertation Title: Analysis of mitochondrial DNA polymorphisms among Channel Island deer mice,  
*Peromyscus maniculatus*

Dissertation Advisor: Dr. Christopher Wills

### Professional Experience

2011 **Sabbatical Fellow**, Chicago Botanic Garden

2003- **Professor**, Department of Biological Sciences, University of Illinois at Chicago

2006-present Research Associate, Chicago Botanic Garden (courtesy appointment)

2001-2002 **Sabbatical Fellow**, National Center for Ecological Analysis and Synthesis, Santa Barbara, California.

1998-2003 **Associate Professor**, Department of Biological Sciences, UIC.

1994-present Research Associate, Field Museum of Natural History (courtesy appointment)

1992-1998 **Assistant Professor**, Department of Biological Sciences, University of Illinois at Chicago.

1989-1992 **Assistant Professor**, Biology Department, Lake Forest College, Lake Forest, Illinois.

1987-1989 **Associate Research Scientist**, Anthropology Department, Columbia University, New York.

Principal Investigator: Dr. Don J. Melnick

1986-1987 **Postdoctoral Associate**, Department of Immunology and Medical Microbiology, University of Florida, Gainesville.

Principal Investigators: Dr. William W. Hauswirth and Dr. Phillip J. Laipis

### Research Grants, Fellowships, and Contracts

National Science Foundation, "Monarchs and Milkweeds: A Partnership to Develop a Integrated and Culturally Relevant Science Curriculum," PI, NSF 19-540, Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program), (\$2,490,096), 2019-2024.

LAS Award for Faculty in the Natural Sciences (PI). The genomic landscape of species divergence in two oak species and their hybrids (\$9,200), 2014-2015.

Kane County States Attorney's Office (PI). Forensic DNA analysis of plant material (\$1,000), 2014.

LASURI Award (PI with Heidi Friedrich). A study of allelic diversity and relative heterozygosities of an imperiled plant population (\$4,000), 2014-2015.

National Science Foundation, "Collaborative Research: Scalable Kinship Inference in Wild Populations Across Years and Generations," co-PI with Tanya Berger-Wolf (PI), (\$1,200,000), 2011-2014.

Western National Parks Association, "Genetic Analysis of the endemic (?) Island Loggerhead Shrike," PI, (\$10,000), 2009-2010.

Chicago Wilderness, "Genetic Characterization of Species, Invasion, and Hybridization: A Bittersweet Story," PI, (\$14,375), 2008-2009.

Chicago Wilderness, "Keeping the Chicago Region Free of Poison Hemlock: An Interdisciplinary Approach to Studying the Invasion Front of a Known Invasive Plant," (co-PI with Kelly Granberg (PI), (\$13,460), 2008-2009.

National Science Foundation, "Collaborative Research: SEIII: Computational Methods for Kinship Reconstruction, co-PI with Tanya Berger-Wolf (PI), (\$608,205), 2006-2010.

National Science Foundation, "IGERT: Ecology, management and restoration of integrated human/natural landscapes," PI, (\$2,810,585), 2006-2012.

University of California, Integrated Hardwood Range Management Program (co PI with Walter Koenig, PI) "Factors Affecting Valley and Blue Oak Regeneration in Upper Carmel Valley, California," (\$115,000), 2005-2010.

Genetic Resources Conservation Program (State of California), "Statewide DNA diversity of imperiled valley oaks, *Quercus lobata*", (\$1,300), 2005.

National Science Foundation, Population Biology Program, "Monitoring Anacapa Island deer mice: population bottleneck, release, and reestablishment," (\$51,668), 2002-2004.

National Science Foundation, Population Biology Program (with T. L. Ashman, University of Pittsburgh), "The evolution of dioecy and sexual dimorphism in a gynodioecious strawberry: The role of phenotypic selection and its ecological context," (\$277,000), 1999-2004.

National Science Foundation, "Integrated science courses for elementary education and non-science majors," (\$188,237). Senior Advisor, PI Maria Varelas, UIC, 2003-2004.

National Center for Ecological Analysis and Synthesis, Santa Barbara, California, Sabbatical Fellowship (12 months), 2001-2002.

UIC Campus Research Board, "Conservation genetics of endangered Illinois shiners," (\$13,300), 2002.

U.S. Dept. of the Interior (with K. L. Jones), Population genetic studies of Sandhill Cranes, *Grus canadensis*, (\$36,190), 2001-2003.

International Crane Foundation, (with K. L. Jones), "Genetic analysis of non-migratory Sandhill Crane populations occurring in Cuba," (\$8,000), 2001.

Liberty Prairie Foundation, "Prairie Crossing Threatened and Endangered Fish Relocation," (\$5500), 2000-2001.

NSF International Dissertation Enhancement Award (with K. A. Feldheim), "Population genetic analysis the lemon shark, *Negaprion brevirostris*, at Atol des Rocas and Fernando de Naronha, Brazil," (\$20,884), 1999.

Chicago Zoological Society, (with James Norton), "Molecular Conservation Genetics of Baird's Tapirs: Genetic Structure, variation, and management," (\$2,130), 1999.

Rhode Island Zoological Society Sophie Danforth Conservation Biology Fund (with J. E. Norton), "Molecular Conservation Genetics of Baird's Tapirs: Genetic structure, variation and management," (\$1000), 1999.

National Science Foundation, Biological Oceanography Program. (with Samuel Gruber, University of Miami) "Population structure and dynamics of the Lemon Shark, *Negaprion brevirostris*, on a local and global scale: Microsatellite and mitochondrial DNA analysis," (\$300,000), 1997-2000.

International Crane Foundation, (with K. L. Jones) "Definition of genetic status of Sarus cranes occurring in Myanmar," (\$3902), 1999.

Channel Islands National Park. “Genetic comparison of *Peromyscus maniculatus* on East, West and Middle Anacapa Islands,” (\$5500), 1998.

National Science Foundation, Division of Integrative Biology and Neuroscience, Animal Behavior Program. “Mating and Parasitic Behavior of Brown-headed Cowbirds,” (\$50,000), 1996-1998.

National Science Foundation, Division of Environmental Biology, Systematics Program, Dissertation Improvement Grant. PI with Jane E. Norman, Co-PI, “Molecular systematics of Xenarthrans,” (\$10,000), 1995.

National Science Foundation, Division of Behavioral and Neural Sciences, Physical Anthropology Program, Research Planning Grant. “Mitochondrial DNA Divergence among Chromosomal Species of *Aotus*,” (\$11,764), 1990-1991.

Chicago Zoological Society Research Award (\$3000), 1990.

### **Awards**

**UIC 2012 UIC Woman of the Year Award**

**UIC 2012 LAS Faculty Service Award**

**UIC 2009 Third Annual Graduate Mentoring Award**

UIC 1998 Teaching Recognition Award, Council for Excellence in Teaching and Learning

### **Professional Service**

2019 Local Host, Joint Meeting of the Annual Conference of the Animal Behavior Society and the International Ethological Conference, UIC, July 23-27

2018 Field Museum Promotion and Tenure Committee

2014 NSF Evolutionary Genetics Panel, October 20-31.

2013 NSF Evolutionary Processes Hybrid Panel, March 27-29.

2011 External Review Committee, Risk Analysis for Introduced Species & Genotypes IGERT, University of Minnesota

2010 External Advisory Panel, GLOBES IGERT, Notre Dame University

2009-2012 Scientific Advisory Panel, National Center for Ecological Analysis and Synthesis (NCEAS), University of California, Santa Barbara

2006 NSF Evolutionary Genetics Panel, Oct. 25-27

2005-2007 Council Member, American Genetic Association (elected position). Chair, AGA Special Events Committee.

2005-2008 Advisory Committee, Women in Science and Engineering: Network Access, Participation, Participation, and Career Outcomes (NSF Funded Project, \$1.23M, Julia Melkers, PI).

2005-2007 Chair, Special Events Award Committee, American Genetic Association

2005- Chicago Wilderness Proposals Committee

**2001-2003 Associate Editor, *Evolution***

**1996-2004 Editorial Board, *Conservation Biology***

2004 Project Reviewer, US Fish and Wildlife Service, Mountain-Prairie Region

2001 NSF Population Biology Panel

2001 Nominating Committee, American Genetic Association

2000-2001 President, UIC Sigma Xi Chapter

2000 NSF National Ecological Observatory Network (NEON) Workshop at Archbold Biological Station, Florida

2000 NSF Panel, Doctoral Dissertation Improvement Grants

- 1999 Search Committee, Field Museum, Department of Botany
- 1997-1998 NSF Special Advisory Panel for Postdoctoral Research Fellowships in Biosciences Related to the Environment
- 1997-present Member, Conservation Breeding Specialist Group, IUCN -- World Conservation Union's Species Survival Commission
- 1995 Search Committee, Field Museum, Department of Zoology
- 1994 Genetic Committee of the Mexican Wolf Recovery Team (U.S. Dept. Interior)
- 1994-1995 Advisory Committee for NSF Program, "Training for undergraduates in collections-based analysis of biological diversity," Field Museum

**University Service**

- 2019-2021 LAS Educational Policy Committee
- 2018-2023 HHMI Inclusive Excellence Departmental Catalyst
- 2018-2021 UIC United Faculty Representative for LAS National Sciences
- 2018 Selection Committee, Graduate College, Provost's Award
- 2014-2016 Elected Member, All Campus Promotion and Tenure Committee**
- 2012- Faculty Advisor, UIC Green Fee Advisory Board
- 2010-2011 Co-Chair, LAS Ad Hoc Committee on Tenure-Line Faculty Teaching Assignments
- 2010 LAS Academic Priorities Task Force
- 2009 UIC Graduate College Diversity Committee
- 2009-2011 **Elected Member, LAS College Executive Committee**
- 2008 UIC Researcher of the Year Award (RYA) Selection Subcommittee
- 2004-2007 Elected Member, All Campus Promotion and Tenure Committee**
- 2004-2007 Elected Member, UIC Senate
- 2004 Member, Educational Policy Committee
- 2003 **Member, Search Committee, Dean of Liberal Arts and Sciences**
- 2003-2009 **Senior Facilitator**, UIC Women in Science and Engineering System Transformation (WISEST), NSF ADVANCE Program
- 2002- Steering Committee, Institute for Environmental Science and Policy
- 2002 Kabbes Scholarship Selection Committee
- 2002 UIC Goldwater Scholarship Selection Committee
- 2001 Organizing Committee, Sigma Xi Graduate Student Research Forum
- 2000-2001 Search Committee, Vice Chancellor for Research, UIC**
- 2000-2001 Search Committee, Director, Institute for Environmental Science and Policy**
- 2000-2002 Campus Research Board Review Subcommittee, Basic Life Sciences
- 2001- UIC CC CETP Science Teacher's Curriculum Development Project
- 2000 Interviewer, UIC Fulbright candidates
- 1998-2000 Member, Task force on General Education
- 1999, 2000 Member, Langenberg Award Selection Committee
- 1997- Honors College Fellow
- 1997-98 Search Committee, Headship of Biological Sciences Dept.
- 1994-97 University Senate, elected office
- 1994-95 Search Committee, Headship of Biological Sciences Dept.

**Departmental Service**

- 2019 Member, Third Year Review Committee

2018	Member, Tenure and Promotion Committee
2017	Member, Hadley Proposal Review Committee
2017	Member, Ecology and Evolution Faculty Search Committee
2014	Member, Department Head Search Committee
2012	Member, Tenure and Promotion Committee
2012	Member, Third Year Review Committee
2010	Member, Tenure and Promotion Committee
2009	Chair, Tenure and Promotion Committee (to Full)
2008	Member, Search Committee, Landscape Ecology Position
2006	Member, Search Committee, Evolutionary Biologist
2004	Tenure and Promotion Committee (to Full)
2003-2006	Member Ad-hoc Executive Committee
2003-2006	<b>Coordinator, Ecology and Evolution Group</b>
2003	Chair, Subcommittee for Promotion and Tenure (to AOP)
1999	Chair, Search Committee, Evolutionary Geneticist
1998-99	Member, Promotion and Tenure Committee
1998	Member, Search Committee, Global Change Biologist
1996-97	E&E Seminar Committee
1995-97	Departmental Advisory Committee (elected member)
1996-97	Departmental Seminar Committee
1993-	Graduate Curriculum Committee
1993-95	Graduate coordinator, Ecology and Evolution group

### **Thesis, Dissertation and Postdoctoral Advising**

Saji T. Abraham, Postdoctoral Research Fellow, 2006-2009.

Janet Rizner Backs, "Population structure and gene flow in two rare, isolated *Quercus* species: *Q. hinckleyi* and *Q. pacifica*." Advisor and Committee chair, Doctoral dissertation, 2008-2014, Postdoctoral Research Fellow, 2015-2017.

John Belcik, Advisor and Committee Chair, Doctoral Dissertation, 2015-present.

João Marcos G. Capurucho, Advisor and Committee Chair, Doctoral Dissertation, 2014-present.

Kathleen Craft, "Effects of fragmentation of bur oak population structure and recruitment." Advisor and Committee Chair, Doctoral dissertation, 1997-2005.

Isabel Caballero, "Molecular Ecology of Peregrine Falcons." Advisor and Committee Chair, Doctoral Dissertation, 2004-2011.

Beverly Dow, "Characterization of mating system of bur oak (*Quercus macrocarpa*) using microsatellite DNA markers." Advisor and Committee Chair, Doctoral dissertation, 1992-1995.

Kevin Feldheim, "Genetic analysis of the mating system and population structure of the lemon shark, *Negaprion brevirostris*." Advisor and Committee Chair, Doctoral dissertation, 1994-2002.

Jennifer Fessler, "Phylogenetics and biogeography of the Chaetodontidae: A Coral Reef Fish Family." Academic Advisor, Doctoral dissertation, 2001-2007.

Jennifer Ison, "Pollination of *Echinacea angustifolia*: Effects of flowering phenology and spatial isolation," Advisor and Committee Chair, Doctoral dissertation, 2005-2010.

Percy Jinga, "Landscape genetics and ecological niche modelling of *Azelia quanzensis* (Pod Mahogany)," Advisor and Committee Chair, Doctoral dissertation, 2013-2017.

Kenneth Jones, "Genetic variation and structure in cranes: a comparison among species," Advisor and Committee Chair, Doctoral dissertation, 1998-2003.

Isabella Kappner, “Phylogenetic systematics of the marine bivalve subfamily Venerinae Rafinesque, 1815.” Academic Advisor, Doctoral dissertation, 2000-2007.

Eun Sun Kim, “Reproductive biology and ecological genetics of three prairie forbs.” Advisor and committee Chair, Doctoral dissertation, 2010-2019.

Andrea Kramer, “Ecological Genetics of Penstemon in the Great Plains.” Advisor and Committee Chair, Doctoral dissertation, 2003-2009.

Emi Kuroiwa, “Clonality and floral morphology in the threatened Hawaiian endemic *Solanum nelsonii*.” Advisor and Committee chair, Masters Thesis, 2008-2014.

Sheila Langosch, “Landscape genetics of a freshwater mussel and its host fish in the Illinois River.” Advisor and Committee Chair, Masters Committee, 2007-2011.

Roselis Mazurek, “Hunting strategies among the Waimiri-Atroari.” Doctoral committee member and Academic Advisor, 1997-2001.

William Moskoff, “Mixed species associations of the migrating Lesser Yellowleg, Academic Advisor and Chair, Masters Committee, 1995-1997. (co-advisor with Christopher Whelan, Morton Arboretum).

Jane Norman, “Molecular Systematics of Xenarthra.” Advisor and Committee Chair, Doctoral dissertation, 1992-1998.

James Norton. “Conservation genetics of Baird’s tapir, *Tapirus bairdii*.” Advisor and Committee Chair, Masters Thesis, 1998-2002.

Fusun Ozer. “Conservation genetics of re-established Anacapa Island deer mouse, *Peromyscus maniculatus anacapae*.” Advisor and Committee Chair, Doctoral dissertation, 2000-2010.

Jason Palagi, “Florivory and clonal reproduction of *Clintonia borealis*: A study using modeling and a natural experiment” Advisor and Committee Chair, Doctoral dissertation, 2010-2018.

Oliver Pergams, “Conservation of the Anacapa deer mouse, *Peromyscus maniculatus anacapae*,” Advisor and Committee Chair, Masters Thesis, 1997-2000.

Helena Puche, WISEST Postdoctoral Fellow, 2007-2009.

Jennifer Schultz, Advisor and committee chair, Doctoral Committee, 1998-2002.

Bill Strausberger, “Breeding biology of the brown-headed cowbird, *Molothrus ater*,” Advisor and Committee Chair, Doctoral dissertation, 1993-2001.

Bryan Stuart, “Amphibian Phylogeography of Indochina,” Academic Advisor, 2001-2006.

Jose Tello, “Phylogeographic patterns of two Neotropical avian genera.” Co-Advisor and Committee Chair, Doctoral Committee, 1996-2005.

John Wilk, “Evolution of the Isognomonidae Woodring, 1925: Phylogenetic and Morphometric Analyses,” Advisor and committee chair, Doctoral dissertation, 2003-2016.

Ramlah Zainudin, “Genetic structure of spatially isolated populations of Bornean frogs.” Academic Advisor, Masters Committee, 1995-1997, (co-advisor with Harold Voris, Robert Inger, FM).

David Zaya, “Genetic characterization of native and invasive bittersweet vines,” Advisor and Committee Chair, Doctoral Dissertation, 2008-2013.

**Manuscript and Book Reviewer, past 5 years**

Animal Conservation  
 Applications in Plant Science  
 Annals of Botany  
 Benjamin Cummings  
 Canadian Journal of Forestry Research  
 Conservation Biology

Conservation Genetics  
Diversity and Distributions  
Evolution  
Holocene  
International Journal of Plant Sciences  
Journal of Biogeography  
Journal of Heredity  
Marine Mammal Science  
McGraw Hill Publishing  
Molecular Ecology  
Molecular Biology and Evolution  
Oecologia  
Plant Biology  
PLoS ONE  
Proceedings of the National Academy of Sciences  
Prentice Hall  
Tree Genomes and Genetics  
Western North American Naturalist

**Grant Proposal Reviewer, past 5 years**

Minnesota Environment and Natural Resources Trust Fund  
National Science Foundation, Systematics and Population Biology Panel  
National Science Foundation, Physical Anthropology Panel  
National Science Foundation, Major Research Instrumentation  
National Science Foundation, Animal Behavior Panel  
National Science Foundation, Biological Oceanography Panel  
National Sea Grant Program  
NOAA Marine Fisheries Initiative  
Lincoln Park Zoo  
US Department of the Interior, Fish and Wildlife Service

**Contributed and Invited Papers, past 10 years (\* indicates student presenter)**

- 2009 Department of Ecology, Evolution and Behavior, Iowa State University, Invited Seminar.  
Contributed paper (Oral). “Landscape and conservation genetics of Island oak, *Quercus tomentella*,” (with S. T. Abraham). Annual Meeting for the Society for the Study of Evolution 2009, June 12-16, University of Idaho.  
Contributed paper (Oral). “Invasion and hybridization as a potential mechanism for cryptic extinction: A bittersweet (*Celastrus* spp.) story” (with D.N. Zaya\*, S. A. Leicht-Young and N. B. Pavlovic). Annual Meeting for the Society for the Study of Evolution 2009, June 12-16, University of Idaho.  
Contributed paper (Oral). “Genetic diversity and bottleneck analyses in Anacapa deer mice” (with F. Ozer\*). American Society of Mammalogists 2009 Annual Meeting, June 24-28, University of Alaska Fairbanks.  
Contributed paper (Oral). “Flowering phenology and pollen movement in a prairie perennial: Consequences of habitat fragmentation and implications for *ex situ* conservation” (with J. L. Ison\* and S. Wagenius). Ecological Society of America Annual Meeting, Aug 2-7, Albuquerque.

- Contributed paper (Oral). “Developing an interdisciplinary graduate curriculum in urban ecology: Lessons from LEAP” Inaugural Conference, Association for Environmental Studies and Sciences, Oct 8-11, University of Wisconsin-Madison.
- 2010 Contributed paper (Oral). “Invasion and Hybridization as a Potential Mechanism for Cryptic Extinction: A Bittersweet (*Celastrus* spp.) Story” (with D.N. Zaya\*, S. A. Leicht-Young and N. B. Pavlovic). Midwest Ecology and Evolution Conference, March 26-28, Iowa State University.
- Contributed paper (Oral). “Invasive oriental bittersweet vines (*Celastrus orbiculatus*) are marketed as native American bittersweet (*C. scandens*) in the Midwest” (with D.N. Zaya\*). Illinois State Academy of Science 102<sup>nd</sup> Annual Meeting, April 9-10, Millikin University, Decatur.
- Contributed paper (Oral). (with D. N. Zaya\*, S. A. Leicht-Young, and N. B. Pavlovic). “Invasion and hybridization as potential mechanisms for cryptic extinction: A Bittersweet (*Celastrus* spp.) story” Botany 2010, July 31-Aug. 4, Providence, RI.
- Contributed paper (Oral). “DNA microsatellites, parentage, and pollination patterns” Botany 2010, July 31-Aug. 4, Providence, RI.
- Contributed paper (Oral). “Pollinators and their influence on population genetic structure in three widespread *Penstemon* species (Plantaginaceae). (with A. T. Kramer and J. Fant). Botany 2010, July 31-Aug. 4, Providence, RI.
- Department of Biological Sciences, Illinois State University, Invited Seminar  
Rancho Santa Ana Botanic Gardens, Claremont, CA, Invited Seminar
- 2012 Contributed paper (Poster). "Low Rates of Hybridization at Two Life Stages for *Quercus lobata* and *Q. douglasii* in a Mixed Stand." (with D. N. Zaya, S. T. Abraham and W. D Koenig). International Conference in Molecular Ecology, Feb. 3-7, Vienna, Austria.
- Contributed paper (Oral). "Genetic diversity and pollination biology as causes for reproductive failure in *Asclepias lanuginosa*." (with Kim, E. S.\*, D. N. Zaya, and J. B. Fant) Illinois State Academy of Science Annual Meeting. March 30-31, 2012, Knox College, Galesburg, IL.
- Contributed paper (Oral). "Asymmetric pollen flow between a native and introduced vine (*Celastrus* spp.)." (with Zaya, D. N.\*, S. A. Leicht-Young, and N. B. Pavlovic). Botany 2012, Annual Meeting of the Botanical Society of America. July 7-11, 2012, Columbus, OH.
- Contributed paper (Oral). "Using microsatellite analysis to assess viability of a rare, isolated oak: *Quercus hinckleyi* C.H.Mull." (with J. Backs\*). Botany 2012, Annual Meeting of the Botanical Society of America. July 7-11, 2012, Columbus, OH.
- Contributed paper (Oral). "Reproductive interference and asymmetric pollen flow between a native and introduced vine (*Celastrus* spp.)." (with D. N. Zaya\*, S. A. Leicht-Young, N. B. Pavlovic). Indiana Dunes Science Conference. Indiana University Northwest, Gary, IN. Nov. 28, 2012.
- Contributed paper (Oral). “Genetic Analysis of California Island Loggerhead Shrikes.” (with I. C. Caballero). 8th California Island Symposium, Oct 23-26, Ventura, CA.
- Contributed paper (Oral). Using Microsatellite Analysis to Assess Genetic Variability and Structure of an Endemic Channel Island Oak, *Quercus pacifica*,” (with J. R. Backs\*). 8th California Island Symposium, Oct 23-26, Ventura, CA.
- 2015 Contributed paper (Poster). “Inferring resistance to gene flow among Valley oak (*Quercus lobata*) populations in California: Is the Central Valley a barrier? (with M. Gharehaghaji\*, E. Minor, S. Abraham and W. D. Koenig). 9th International Association of Landscape Ecology World Congress, July 5-10, Portland, OR.



- Invited paper (Oral). “Landscape and conservation genetics of the Island Oak, *Quercus tomentella* Englemann.” 8<sup>th</sup> International Oak Society Conference, Oct 18-21, The Morton Arboretum, Lisle, IL.
- 2016 Invited paper (Oral). “Asexual reproduction and the persistence of threatened plant species.” Chicago Plant Science Symposium 2016. April 16, 2016. Field Museum, Chicago, IL.
- Contributed paper (Oral). “Sexual extinction in threatened plant species.” Evolution 2016, June 17-21, Austin, TX.
- Contributed paper (Oral). “Asexual Reproduction and the Persistence of Threatened Plant Populations.” Botany 2016, July 30-Aug 3, Savannah, GA.
- Contributed paper (Poster). “Development of microsatellite loci of pod mahogany, *Afzelia quanzensis* (Fabaceae), by Illumina shotgun sequencing, and cross-amplification in *Afzelia Africana* (with P. Jinga\* and J. Palagi). Botany 2016, July 30-Aug 3, Savannah, GA.
- 2017 Contributed paper (Digital). “Re-evolution of Bios 230 at the University of Illinois at Chicago”. Online Learning Consortium, Nov 15-18, Orlando, FL.
- 2018 Invited Seminar. “Considering Conservation Genetics of Oaks.” The Morton Arboretum Tree Talk Series, December 10, 2018.

### **Published Book Reviews**

- Ashley, M.V. 1995. Review of *Aotus: The Owl Monkey*. J.F. Baer, R. E. Weller, and I. Kakoma (eds.). Academic Press, San Diego, 1994, 280 pp. *International Journal of Primatology* 16:883-885.
- Ashley, M. V. 1996. Review of *The Mammalian Molecular Clock*. S. Easteal, C. Collet, and D. Betty. R. G. Landes, Austin Texas, 170 pp. *Journal of Mammalogy* 77:286-288.

### **Book Chapters**

- Ashley, M.V. and B.D. Dow. 1994. The use of microsatellite analysis in population biology: Background, methods and potential applications. Pp. 185-202 in “Molecular Ecology and Evolution: Approaches and Applications,” B. Schierwater, B. Streit, G. P. Wagner and R. DeSalle (eds.) Birkhauser Verlag, Boston.
- Ashley, M. V., T Y. Berger-Wolf, I. Caballero, W. Chaovalitwongse, B. DasGupta and S. I. Sheikh. 2009. Full sibling reconstructions in wild populations from microsatellite genetic markers. Computational Biology: New Research, Nova Science Publishers (invited book chapter).
- Ashley, M.V., S. T. Abraham, L.C. Kindsvater, D. Knapp, and K. J. Craft. 2010. Population structure and genetic variation of Island Oak, *Quercus tomentella* Engelm on Santa Catalina Island. In: Oak ecosystem restoration on Santa Catalina Island, California (D. A. Knapp, ed.), Proceedings of an on-island workshop, Feb 2-4, 2007. Catalina Island Conservancy, Avalon, CA. [http://catalinaconservancy.org/index.php?s=wildlife&p=oak\\_symposium\\_proceedings](http://catalinaconservancy.org/index.php?s=wildlife&p=oak_symposium_proceedings)
- Zaya, D. N. and M. V. Ashley. 2012. Plant genetics for forensic applications. Pp. 35-52 in Plant DNA Fingerprinting: Methods and Protocols, N. J. Sucher et al. (eds.), Methods in Molecular Biology, vol 862. Springer Science+Business Media, LLC.

### **Peer Reviewed Publications**

#### **Journal Articles**

- 1) Ashley, M. and C. Wills. 1987. Analysis of mitochondrial DNA polymorphisms among Channel Island deer mice. *Evolution* 41:854-863.
- 2) Ashley, M.V. and C. Wills. 1989. Mitochondrial DNA and allozyme divergence patterns are correlated among island deer mice. *Evolution* 43:646-650.

- 3) Ashley, M.V. 1989. Absence of differentiation in mitochondrial DNA of island and mainland harvest mice, *Reithrodontomys megalotis*. *Journal of Mammalogy* 70:383-386.
- 4) Ashley, M.V., P.J. Laipis and W.W. Hauswirth. 1989. Rapid segregation of heteroplasmic mammalian mitochondria. *Nucleic Acids Research* 17:7325-7331.
- 5) Ashley, M.V., D.J. Melnick and D. Western. 1990. Conservation genetics of the black rhinoceros (*Diceros bicornis*), I.: Evidence from the mitochondrial DNA of three populations. *Conservation Biology* 4:71-77.
- 6) Patterson, B.D., V. Pacheco, and M.V. Ashley. 1992. On the origins of the western slope region of endemism: systematics of fig-eating bats, genus *Artibeus*. *Memorias del Museo de Historia Natural, U.N.M.S.M. (Lima)* 21:189-205.
- 7) Melnick, D.J., G.A. Hoelzer, R. Absher, and M.V. Ashley. 1993. mtDNA diversity in rhesus monkeys reveals overestimates of divergence time and paraphyly with neighboring species. *Molecular Biology and Evolution* 10:282-295.
- 8) Amato, G.D., M.V. Ashley, and J. Gatesy. 1993. Molecular evolution in living species of rhinoceros: Implications for conservation. Pp. 114-122 in "Proceedings of an International Conference on Rhinoceros Biology and Conservation," O.A. Ryder (ed.), Zoological Society of San Diego.
- 9) Hoelzer, G.A., W.P.J. Dittus, M.V. Ashley, and D.J. Melnick. 1994. The local distribution of highly divergent mitochondrial DNA haplotypes in toque macaques (*Macaca sinica*) at Polonnaruwa, Sri Lanka. *Molecular Ecology* 3:451-458.
- 10) Dow, B. D., M. V. Ashley and H. F. Howe. 1995. Characterization of highly variable (GA/CT)<sub>n</sub> microsatellites in the bur oak, *Quercus macrocarpa*. *Theoretical and Applied Genetics* 91:137-141.
- 11) Ashley, M. V., and J. L. Vaughn. 1995. Owl monkeys, *Aotus*, are highly divergent in mitochondrial cytochrome *c* oxidase (COII) sequences. *International Journal of Primatology* 16:793-806.
- 12) Dow, B. D. and M. V. Ashley. 1996. Microsatellite analysis of seed dispersal and sapling parentage in bur oak, *Quercus macrocarpa*. *Molecular Ecology* 5:615-627.
- 13) Ashley, M. V., J. E. Norman and L. Stross. 1996. Phylogenetic analysis of Tapiridae using mitochondrial cytochrome *c* oxidase (COII) sequences. *Journal of Mammalian Evolution*.3:315-326.
- 14) Strausberger, B. and M. V. Ashley. 1997. Community-wide patterns of parasitism of a host "generalist" brood-parasitic cowbird, *Oecologia* 112:254-262.
- 15) Dow, B. D. and M. V. Ashley. 1998. Factors influencing male mating success in bur oak, *Quercus macrocarpa*, *New Forests* 15:161-181.
- 16) Dow, B. D., and M. V. Ashley. 1998. High levels of gene flow revealed by paternity analysis using microsatellites. *Journal of Heredity* 89:62-70.
- 17) Dow, B. D. and M. V. Ashley. 1998. Population structure and mating system of bur oak, *Quercus macrocarpa*, characterized by DNA microsatellite analysis. Proceedings of "Diversity and Adaptation in Oak Species," (K. C. Steiner, ed.), Penn State University.
- 18) Ashley, M. V. 1999. Molecular Conservation Genetics. *American Scientist* 87:28-35.
- 19) Dow, B. D. and M. V. Ashley. 1999. Changing genetic structure of a savanna bur oak population, *Forest Genetics* 6:29-39.
- 20) Pergams, O. R. W. and M. V. Ashley. 1999. Rapid morphological change in Channel Island deer mice. *Evolution* 53:1573-1581.
- 21) Pergams, O. R. W. and M. V. Ashley. 2000. California Island deer mice: Genetics, morphometrics and evolution. Pp. 278-288 in D. R. Browne, K. L. Mitchell and H. W. Chaney (eds.)

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