

## AZA Population Management Advisors

The Population Management Center (PMC) is the official center of scientific and technical advice for AZA cooperatively managed Animal Programs. The PMC provides Studbook Keepers with assistance with data conventions, data validation, and preparing data for a planning meeting and assists Species Coordinators with developing breeding and transfer recommendations based on demographic and genetic analyses. The PMC also works in conjunction with PMC Adjunct Advisors who advise AZA Animal Programs based at their home institutions.

### ❖ Who are the PMC?

PMC staff biologists work full time in support of all AZA Program Leaders and are based at Lincoln Park Zoo in Chicago, Illinois.

- Kristine Schad, M.S., Director
- John Andrews, M.S., Population Biologist
- Amanda Lawless, M.S. Associate Population Biologist
- Cara Groome Bryan, M.S., Consulting Population Biologist
- Kelvin Limbrick, B.S., Studbook Analyst
- Kayla Melton, M.A., Research Assistant

### ❖ Who are the PMC Adjunct Population Biologists?

PMC Adjunct Advisors are approved by AZA and advise AZA Animal Programs based at their home institutions. Colleen Lynch also advises many other AZA programs as part of her consulting work for AZA.

- Colleen Lynch, M.S. – Riverbanks Zoo & Gardens
- Ed Spevak, PhD – Saint Louis Zoo
- Jamie Ivy, PhD – San Diego Zoo Global
- Andrea Putnam, PhD – California Association of Zoos & Aquariums members
- Gina Ferrie, M.S. – Disney's Animal Kingdom
- Tom Ness, M.S. – Minnesota Zoo
- Jennifer Mickelberg, PhD - Zoo Atlanta
- Katelyn Mucha, M.S. – Species360
- Sara Sullivan, M.S. – Chicago Zoological Society

### ❖ What do AZA population management advisors do?

The **PMC Studbook Analyst** provides many services, especially useful for Studbook Keepers:

- Guidance on how to start a studbook
- Methods and resources for updating a studbook
- Advice on data conventions and how to enter atypical data
- Studbook validation and assistance with data clean-up
- Scheduling and preparing studbook data for a Breeding and Transfer Plan
- Troubleshooting software problems

PMC & Adjunct Population Biologists provide many services for AZA Animal Programs:

- Produce Breeding and Transfer Plans
- Provide informal genetic or demographic advice between plans
- Investigate unknown or partially-known pedigrees
- Develop pedigree assumptions and create analytical studbooks
- Conduct research and help to develop software to improve methods of population management
- Troubleshoot software problems

The PMC is happy to provide help to any of AZA's cooperatively managed programs, and program leaders should feel free to contact the PMC with questions at any time.

Kristine Schad, M.S.  
Director  
312.742.3993  
[KSchad@LPZoo.org](mailto:KSchad@LPZoo.org)

John Andrews, M.S.  
Population Biologist  
312.742.6600  
[JAndrews@LPZoo.org](mailto:JAndrews@LPZoo.org)

Amanda Lawless, M.S.  
Associate Population Biologist  
312.742.0220  
[ALawless@LPZoo.org](mailto:ALawless@LPZoo.org)

Kelvin Limbrick  
Studbook Analyst  
312.742.7682  
[PMC@LPZoo.org](mailto:PMC@LPZoo.org)

Kayla Melton, M.A.  
Research Assistant  
312.742.3779  
[KMelton@LPZoo.org](mailto:KMelton@LPZoo.org)