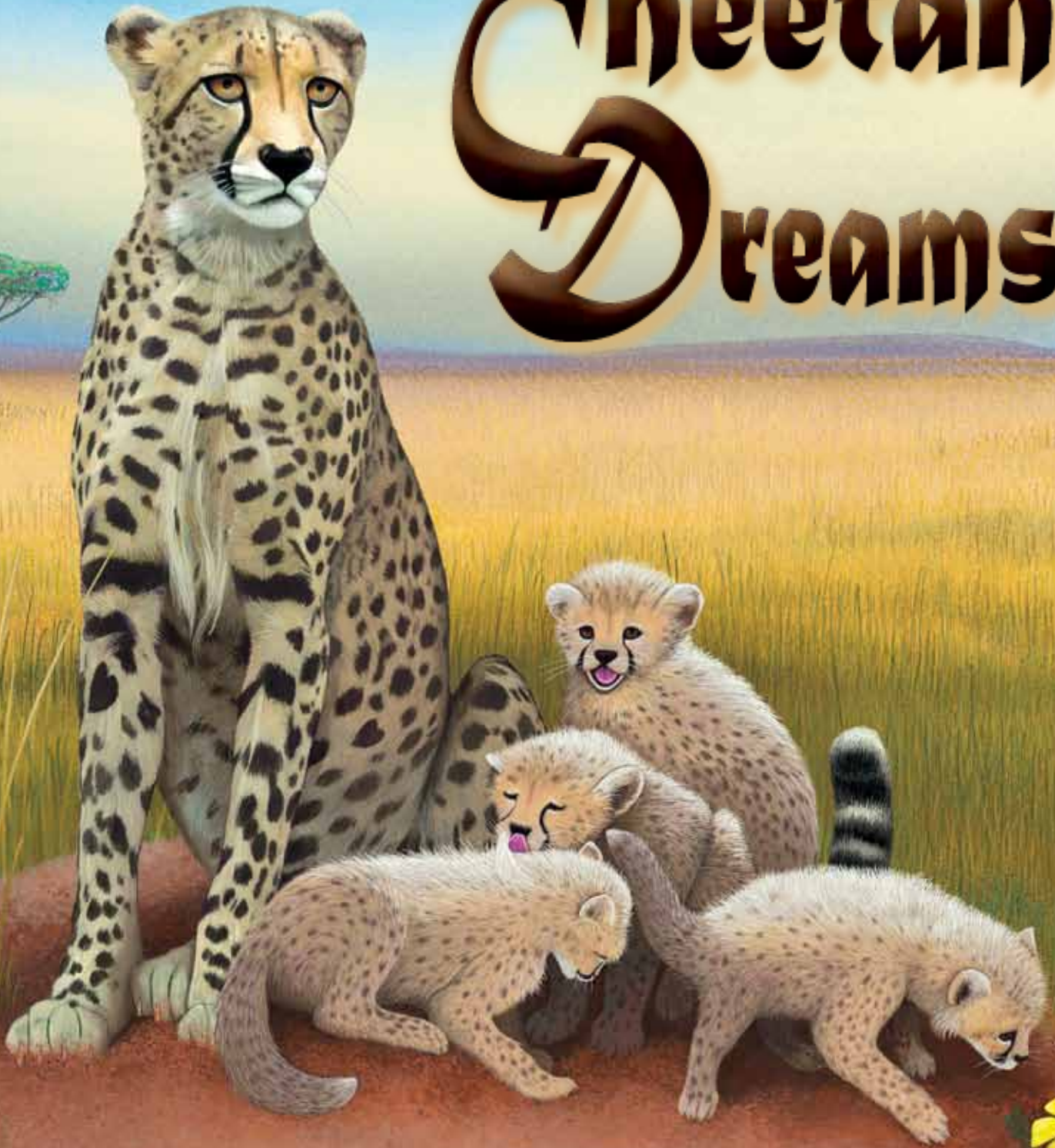


Cheetah Dreams



by Linda Stanek
illustrated by Shennen Bersani



Cheetah Dreams

Cheetahs are the most rapidly vanishing cat in Africa. The lyrical text shares dreams of a bright future for cheetahs while engaging sidebars provide a wealth of natural history information. From cleat-like feet to tear-marked faces, these majestic cats are highly adapted to life on the African plains. The fierce predators sprint after their prey at high-speed, an exhausting dash that leaves them ready for a nap!



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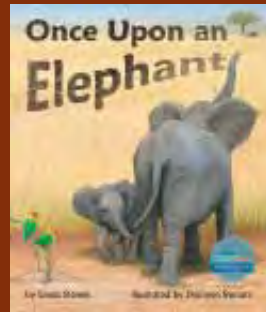
Thanks to Dr. Laurie Marker, Founder and Executive Director of the Cheetah Conservation Fund (CCF), and Suzi Rapp and Shannon Swint, VP and Office Coordinator of Animal Programs at Columbus Zoo, for verifying the accuracy of the information in this book.

The *For Creative Minds* includes

- Cheetahs and their Big Cat Cousins
- Cheetah Conservation
- Cheetah Adaptations
- Purr or Roar

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As an early and middle childhood educator, **Linda Stanek** wants to inspire young learners, including children with written language disabilities, to write about things that excite them. In addition to *Cheetah Dreams*, Linda has also written *Once Upon an Elephant* (CBC Children's Choice Book Award), and *Night Creepers* for Arbordale, as well as *The Pig and Miss Prudence* and *Beco's Big Year: A Baby Elephant Turns One*. Linda has two grown sons and lives in Ohio with her husband and feline family members. Visit her website at www.lindastanek.com.

Shennen Bersani is an award-winning illustrator with 2 million copies of her books cherished and read by children, parents, and teachers throughout the world. Her art delivers heartfelt emotion, the wonders of nature and science, and creates a unique joy for learning. In addition to *Cheetah Dreams*, some of Shennen's other illustrated works include *Once Upon an Elephant* (CBC Children's Choice Book Award) and *Honey Girl* (NSTA-CBC Outstanding Science Trade Book Award). She is also the author and illustrator of *Achoo! Why Pollen Counts*. Shennen lives with her family near Boston. Visit her website at www.shennenbersani.com.



Linda Stanek



Shennen Bersani

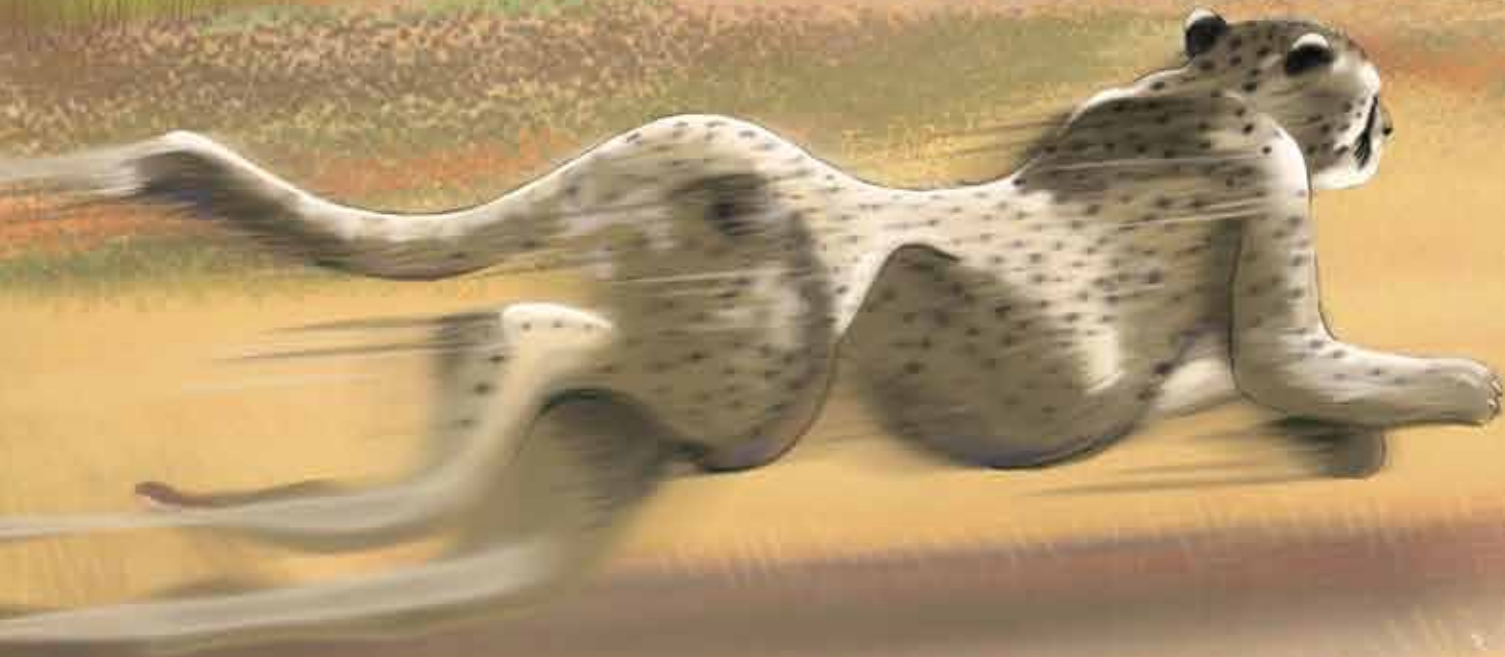
Cheetah Dreams



by **Linda Stanek**
illustrated by **Shennen Bersani**

I dream of cheetahs

racing on
across the bright savanna.



The cheetah is the fastest land animal. Cheetahs can run up to seventy miles (113 km) per hour, going from zero to sixty in just three seconds. It's exhausting! Luckily, most of the time, cheetahs are able to catch their prey at only half that speed.

Unlike other big cats in Africa, cheetahs are most active during the day (diurnal).



**Their cleat-like feet
so swift and sure,
their tails like rudders,
guiding.**



Like the nubby cleats on the bottom of athletic shoes, cheetahs' claws are always partly out, ready to grip the ground as the big cat runs.

Cheetahs use their tails like the rudder of a boat. Their tails help them to balance and steer their bodies when they turn at high speeds.



I dream of cheetahs
safe, secure,
from farmers strictly guarding.



When farmers move into cheetah territory, the cheetahs' preferred prey, gazelle and young wildebeest, move away. But cheetahs still need food. Some of them end up hunting the livestock on farms.

To protect their livestock, these farmers sometimes resort to shooting the cheetahs.

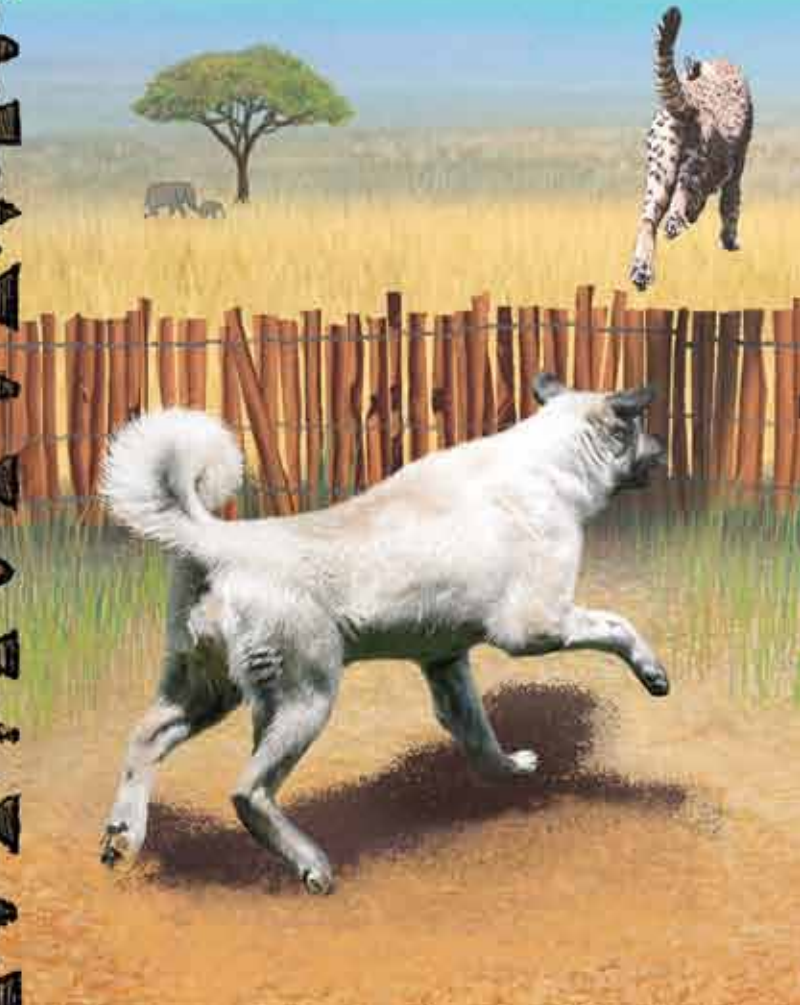


**Of dogs with voices,
deep and loud,
to urge the cheetahs onward.**



Some farms have large, loud, Anatolian shepherd dogs that live with the farm animals. When these dogs sense a cheetah nearby, they bark and growl.

Cheetahs are better at running than fighting, so when they hear the dogs, they take off. These dogs save the livestock from the cheetahs, and the cheetahs from farmers.



For Creative Minds

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Cheetahs and their Big Cat Cousins

Cats come in all sizes, from the rusty-spotted cat (2-3.5 lb or 9-1.6 kg) to the Siberian tiger (up to 675 lb or 306 kg). Some cat species are grouped together and called the “big cats.” Lions, tigers, leopards, and jaguars are all big cats. Sometimes other cats, like cheetahs, pumas, and snow leopards, are called big cats too.

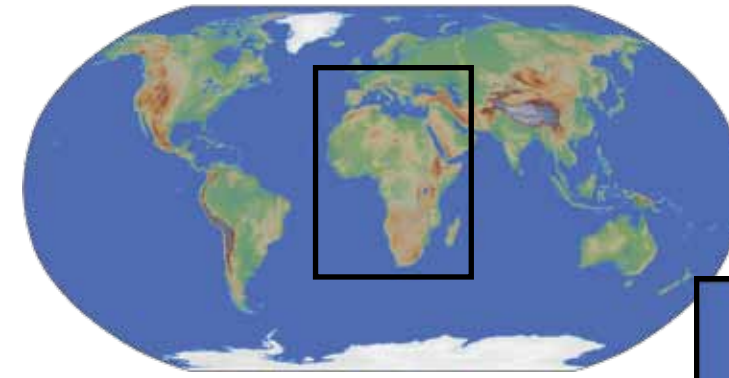
Cheetahs are smaller than their big cat cousins, but they are still pretty big! An adult cheetah is 3.5 to 4.5 feet (1.1-1.4 m) long from its head to the base of its tail. The tail adds another 2 to 2.5 feet (.6 to .76 m). Cheetahs are about 32 inches (.8 m) tall at their shoulders, and weigh 70-140 lb. (32-64 kg).



From left to right: human, lion, jaguar, cheetah, house cat, leopard, tiger.

Which of these are not “Big Cats”?

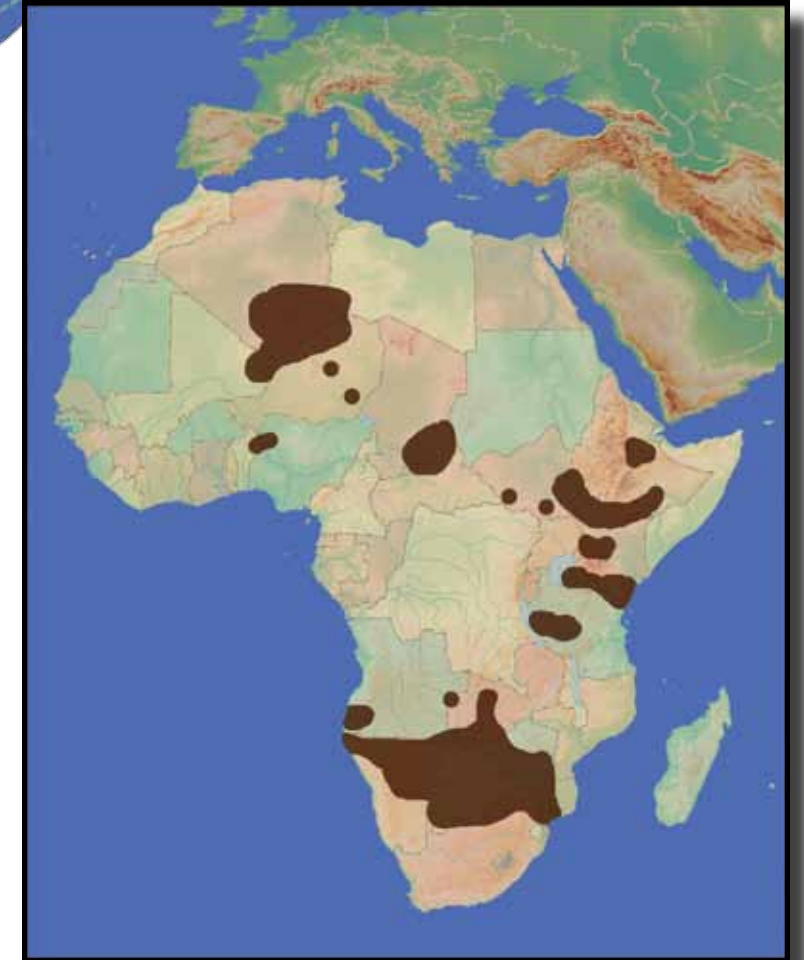
Cheetah Conservation



There are 54 different countries on the continent of Africa . . . and cheetahs used to live in nearly all of them, and on other continents too! But not anymore—now cheetahs live only in the areas shown on this map.

Only one in ten cheetah cubs survives to adulthood. Some die from health problems when they are young. Many cubs are killed by predators such as lions or hyenas. This can happen when the mother cheetah is out hunting, or even when she is with her cubs. She is not big and strong enough to fight off either of these predators.

Once a cheetah reaches adulthood, it faces new challenges. Fragmented territory makes it hard for cheetahs to move around in their habitat. Farms and human populations make the cheetahs’ territories smaller and smaller. People hunt many of the same prey cheetahs do, so there are fewer prey animals left for the cheetahs. And some people hunt cheetahs too. In most countries, this is illegal and is called poaching.



What are we doing?

As with most endangered species, education is a big part of conservation. Zoos and conservation organizations teach people about the threats to cheetahs. They raise money to create wildlife refuges where cheetahs will be safe from poachers and away from farms. About 10% of wild cheetahs live in these protected areas. Some zoos are working on captive breeding programs, so that the cheetahs in their zoos can have babies and help the global population.

Cheetah Adaptations

Cheetahs have larger than normal hearts and lungs for an animal of their size. Their extra-large lungs allow them to take in plenty of oxygen, and their big hearts pump the oxygen through their bodies, fueling them when they run at top speed.



Cheetahs' claws are adapted to help them run. While most cats' claws withdraw into their paws (retractable claws) cheetahs' claws are only partially retractable. They are always ready to grip the ground, much like the cleats on athletic shoes.

Cheetahs' large eyes are set high in their skulls and face forward. This, along with the shape of their retinas (a part of the eye), gives them binocular vision. Cheetahs can see details of things more than three miles away.



Young cheetahs grow a "mantle" of long hair on the tops of their heads, their necks, and their backs. Some believe this is to make them look like the honey badger, a fierce, small animal that most predators leave alone. Others believe the mantle is to help the cubs blend in with the grass.

Purr or Roar

Some cats purr. Other cats roar. But they can't do both. Why? Two reasons.

Every cat has a bone in its throat called the hyoid bone. In purring cats, this bone is hard and connects to other bones. It transmits vibrations when the cat purrs. In roaring cats, this bone is more flexible and it "floats"—it attaches to muscle, but not to other bones, so it doesn't transmit vibrations well.

The vocal cords of purring and roaring cats are also different. Vocal cords in purring cats fold in a special way that allows them to vibrate when the cat breathes in and out. Because of this, these cats can purr without stopping to catch their breath. The vocal cords in roaring cats are shaped differently. Their vocal cords, along with their floating hyoid bones, keep them from purring, but allow big cats to make loud, deep sounds. Roar! Some roaring cats can make something like a purring sound when they breathe out, but they have to stop to breathe in, so it isn't a true purr.

Do you think these cats have floating hyoid bones or attached? Why?



Lions use their deep, rolling **roar** to tell other lions where they are. This warns strange lions to stay away from the lion group (pride) that lives in the area.

Jaguars are the largest cats in the Americas. Unlike many other cats, jaguars like the water. They swim, hunt fish, bathe, and even play in the water. They have a deep **roar**.



Most animals freeze when they hear a tiger's **roar**. If the prey are scared stiff, they are easier for the tiger to catch!



Cheetahs are awake and active during the day. Sometimes they find a cool spot to rest during the hot afternoon, and stretch out to **purr** in the shade.



Leopards don't roar as loud as lions, or as long. Leopard **roars** are short and raspy, like the sound of a saw moving back-and-forth through wood.



House cats might live with people, but they haven't lost their wild, hunter instinct. Cats will hunt birds and small mammals, and then return home to curl up and **purr** in their favorite person's lap.



Floating hyoid bone (can roar): lion, jaguar, leopard, tiger. Attached hyoid bones (can purr): cheetah, house cat.

To Suzi Rapp and Shannon Swint with thanks for allowing me to step into your cheetah-filled world. Thanks, too, to Linda Castaneda, Alicia Sampson, Susie Ekard, and Janet Rose-Hinostroza for your insights on these amazing cats as well.—LS

To research these illustrations I drove to Southwick's Zoo in Mendon, MA, Roger Williams Park Zoo in Providence, RI, and Columbus Zoo in Columbus, Ohio, to see their cheetahs. I am truly grateful for Luke Weatherhead at Southwick's and Shannon Swint at Columbus for the time each of you spent with me, giving me access to your zoos' cheetahs, and answering my many questions. There is nothing quite like having the breath of a cheetah on your face. A special thank you to Lou Marcoccio for joining me on these zoo adventures.—SB

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Library of Congress Cataloging-in-Publication Data

Names: Stanek, Linda, author. | Bersani, Shennen, illustrator.

Title: Cheetah dreams / by Linda Stanek ; illustrated by Shennen Bersani.

Description: Mount Pleasant, SC : Arbordale Publishing, [2018] | Audience:

Ages 4-8. | Audience: K to grade 3.

Identifiers: LCCN 2018005023 (print) | LCCN 2018005928 (ebook) | ISBN 9781607187547 (English Downloadable eBook) | ISBN 9781607187660 (English Interactive Dual-Language eBook) | ISBN 9781607187592 (Spanish Downloadable eBook) | ISBN 9781607187714 (Spanish Interactive Dual-Language eBook) | ISBN 9781607187271 (english hardcover) | ISBN 9781607187417 (english pbk.) | ISBN 9781607187479 (spanish pbk.)

Subjects: LCSH: Cheetah--Juvenile literature. | Cheetah--Behavior--Juvenile literature. | Endangered species--Africa--Juvenile literature.

Classification: LCC QL737.C23 (ebook) | LCC QL737.C23 S71645 2018 (print) | DDC 599.75/9--dc23

LC record available at <https://lcn.loc.gov/2018005023>



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Manufactured in China, June 2018
This product conforms to CPSIA 2008
First Printing

Arbordale Publishing
Mt. Pleasant, SC 29464
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