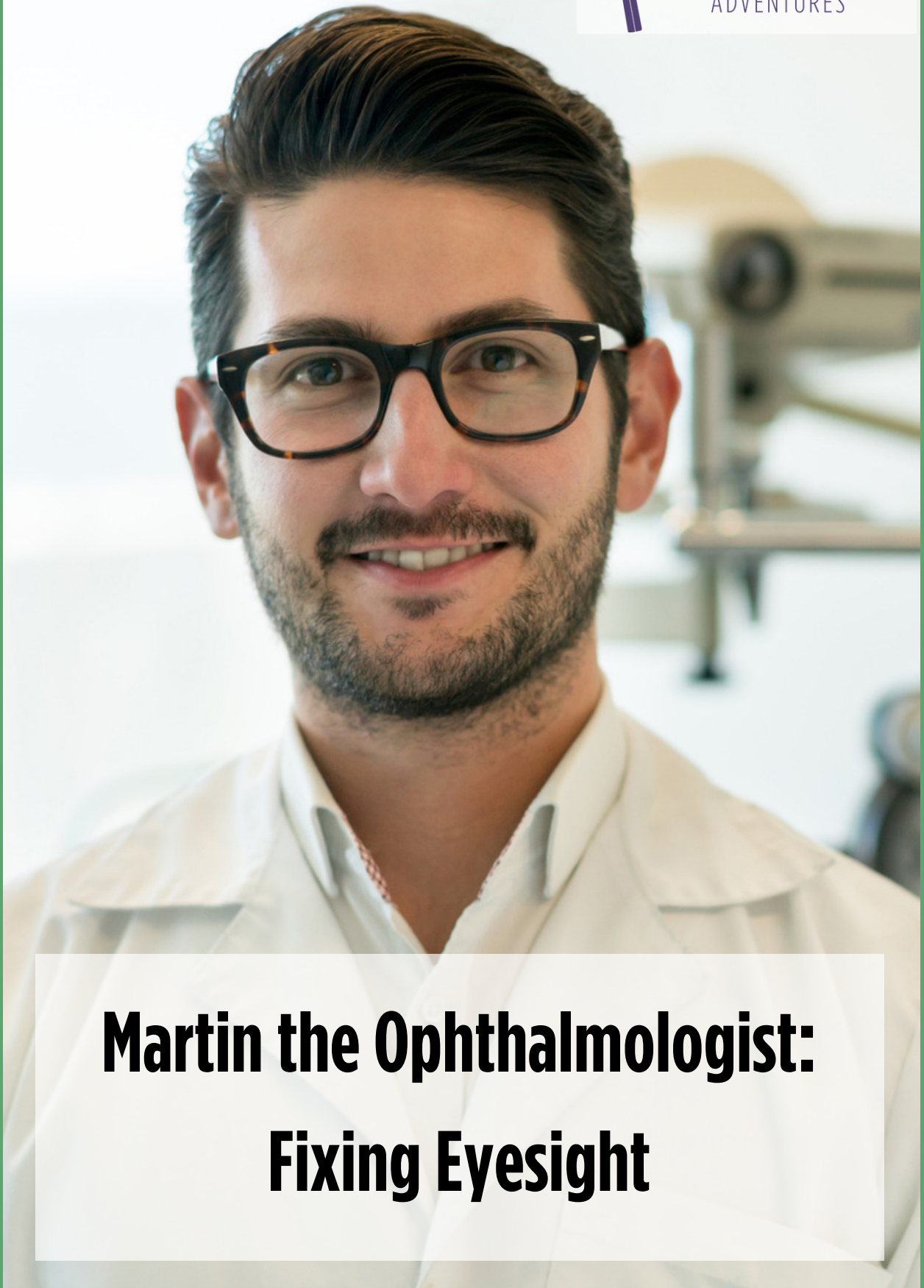




SCIENCE CAREER
ADVENTURES



Martin the Ophthalmologist: Fixing Eyesight

Who is Martin?



Hey guys! My name is Martin. Have you ever been to the eye doctor to get glasses? If you have, you probably saw an optometrist. I am not that type of eye doctor! I am an ophthalmologist. Just like other medical doctors, I went to medical school for four years. I now work in a hospital and perform surgeries to help people's vision.



Here are some things that ophthalmologists do:



Conduct eye exams to see if people have blurry vision and need glasses.



Diagnose people with eye diseases, like glaucoma.



Perform surgery for people who have eye diseases.

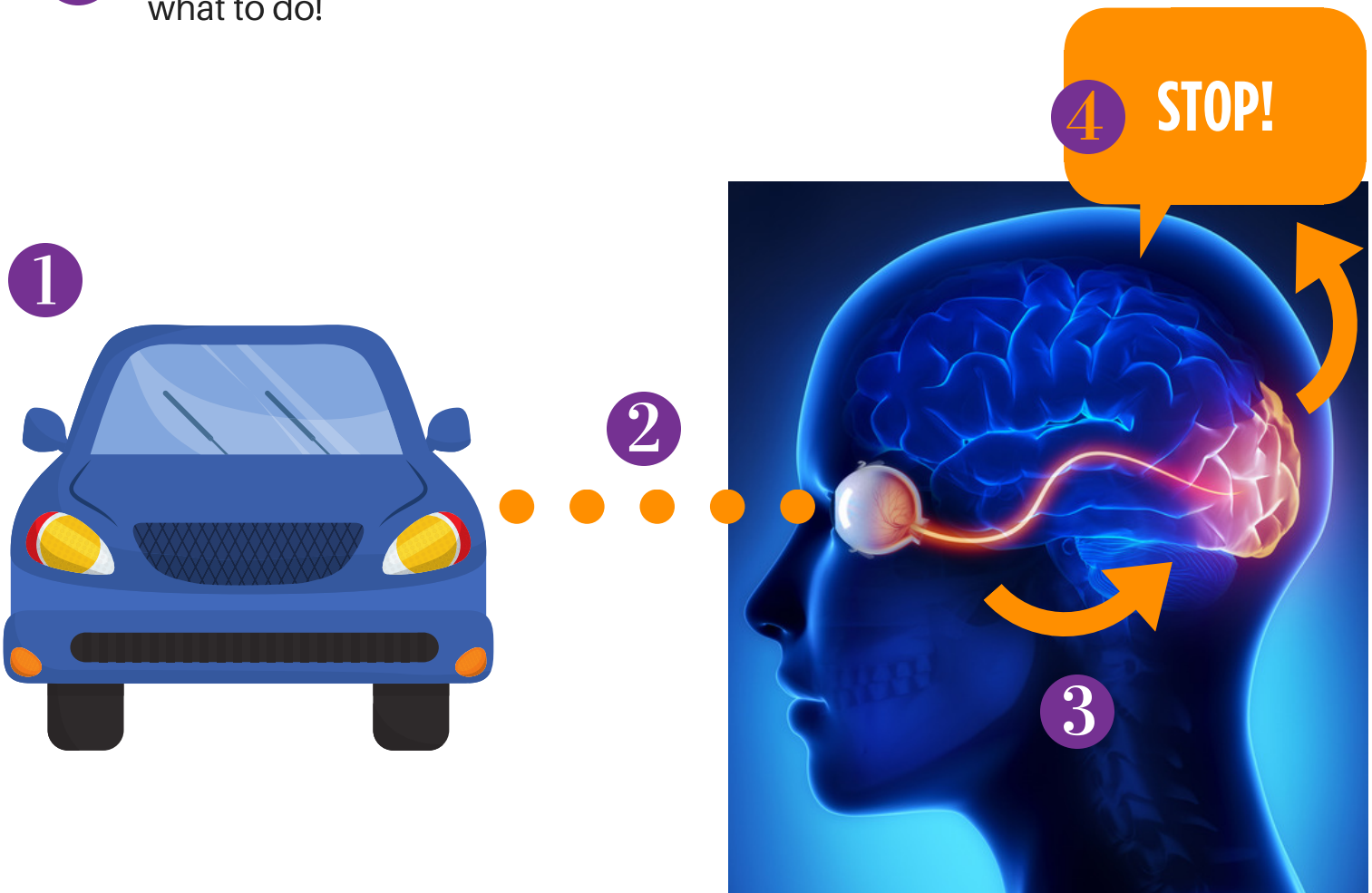
Understanding How Eyes Work

As an ophthalmologist, I am an expert on how eyes work. Eyes are organs that can “sense” information. To “sense” means to be able to detect something.

Eyes sense objects and light through receptors. Receptors are located inside the eye.

Here is how eyes work:

- 1 There is an object near you.
- 2 Your receptors sense the object or light through your eyes.
- 3 Your receptors send information they gather through nerves. A nerve is a structure that sends messages from parts of the body to the brain. The nerves carry messages from your receptors to the brain.
- 4 Your brain quickly processes what the message means and tells you what to do!



How Eyes Work Example

- 1 There are pictures and words on an app on your phone.
- 2 Your eye receptors take in the information on the screen.
- 3 Your receptors send information they gather through your nerves.
- 4 Your brain receives the message, "Click this button to play Clash of Clans."
- 5 Your brain quickly processes what the message means and then tells your finger to move to the screen and click the correct button.



What I am Working On

Today, I am signing up for 3 online classes through Skype. The classes are part of my continuing education. Continuing education is when someone who is already working in a career continues to learn new information related to their job. Doctors (and many other professionals) are required to take continuing education classes as part of their job!

Check out the classes that I signed up for!



What would happen if doctors didn't take continuing education classes?
Discuss with your class.

Did You Know?

Check out these facts about ophthalmologists and eyes:

**Average Salary:
\$325,384**



If you live in a sunny place, you need to wear sunglasses. The sun can damage your eyes, just like it can damage your skin!

Ophthalmologists recommend that people of all ages (including kids!) wear sunglasses when it is sunny outside.



In 2014, there were 1,300 reported eye injuries that were caused by fireworks. Ophthalmologists have recommended that people attend professional firework shows and not try to purchase and use fireworks on their own.

