



Arlyne Simon, Ph.D.

Biomedical Engineer | Inventor | Author

STEM Advocate

www.arlynesimon.com
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ABOUT ARLYNE

Patented inventor, Dr. Arlyne Simon is an award-winning biomedical engineer, children's author, entrepreneur and STEM advocate who thrives at the intersection of healthcare, technology and K-5 invention education.

She is on a mission to inspire kid inventors, everywhere, by changing the perception of what an inventor looks like.

Recognized as a trailblazing female innovator by the United States Patent and Trademark Office, Arlyne invented a blood test that detects when cancer patients reject bone marrow transplants. Her passion for healthcare has led her to design syringes, supercomputers and ultrasound machines. She currently works as a Solutions Architect in Intel's Health, Education and Consumer Industries group.

Arlyne is founder of [Abby Invents, LLC](#), author of the award-winning Abby Invents picture book series and a 2019-2021 American Association for the Advancement of Science ([AAAS](#)) [IF/THEN Ambassador](#) — a national STEM role model for girls. She is also a founding member of [InventionLIT](#) — a professional development workshop series that shows K-5 educators how to use children's literature as a launchpoint for invention education.

She is 1 of 120 women in science, technology, engineering and math (STEM), honored with a life-size, 3D-printed statue in the [#IfThenSheCan - The Exhibit](#). This historical exhibit was on display at the Smithsonian Museum in DC in March 2022 and features the most statues of real women ever assembled together.

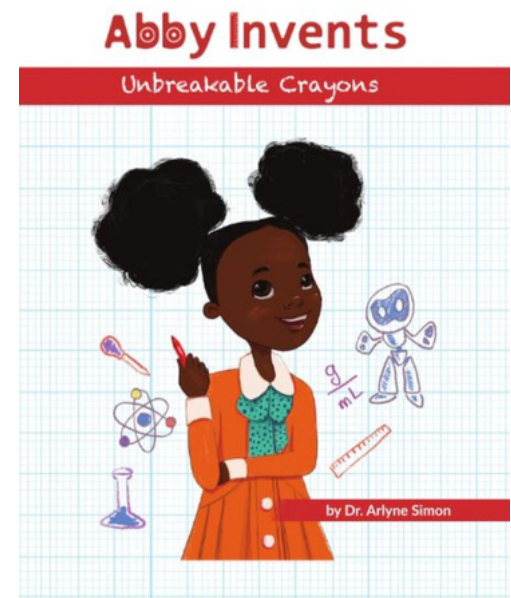
A native of Dominica, she holds a Ph.D. in macromolecular science and engineering from the University of Michigan and an undergraduate degree in chemical & biomolecular engineering from Georgia Tech.

Abby Invents Unbreakable Crayons

Tired of her crayons breaking, Abby invents the world's first unbreakable crayons and gets a patent to prove it.

Awards:

- *Purdue University Engineering Gift Guide (2019)*
- *National Inventor's Hall of Fame, Best Children's Books to Celebrate Diversity in STEM (2020)*



Abby Invents

The Foldibot



Abby Invents The Foldibot

Abby and Miko invent the world's first, at-home, laundry-folding machine and Abby earns her second patent.

Awards:

- *TOP 10 Gift in the 2021 Purdue University Engineering Gift Guide*
- *Finalist for the 2022 AAAS/Subaru Children's Science Picture Book Award*
- *Science Magazine (2021), Books for young scientists and engineers*

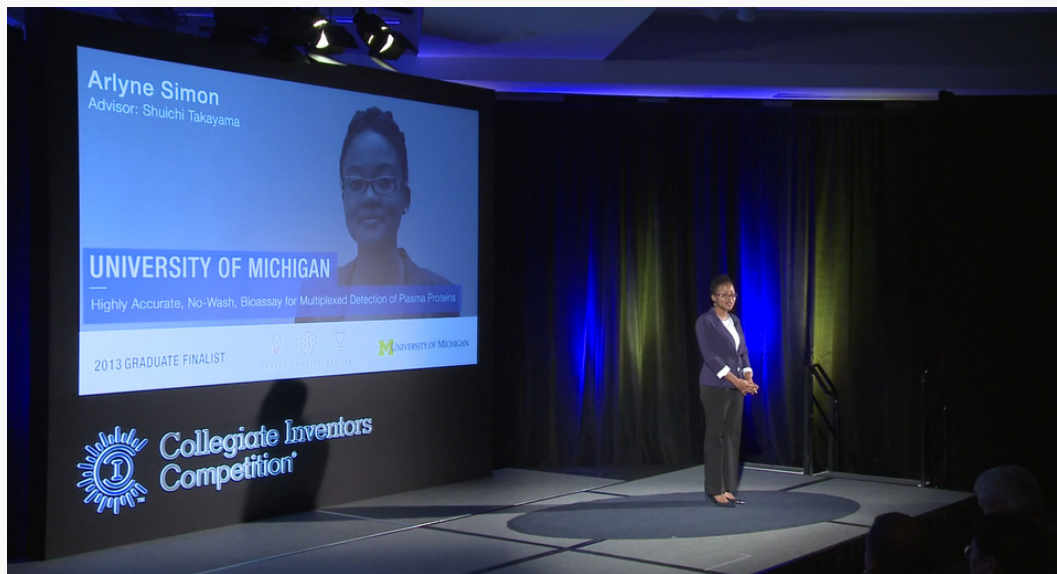
STEM Trading Cards

From biomedical engineers to toy inventors
to deep sea explorers - learn about 26
amazing Women in STEM! Each of the
women featured has a life-size, 3D-printed
statue displayed in the #IfThenSheCan - The
Exhibit



SPEAKING

As a thought leader in invention education and an expert in medical device design, Arlyne enjoys sharing her journey to innovation to K-12 students & educators, college, graduate students, and young professionals.



SELECT SPEAKING TOPICS

Make the Impossible, Possible (*K-12*)

Our backgrounds do not dictate our future. Learn that by embracing the opportunities available to us, we can become the first college graduate/inventor/author in our families.

Powering Through Uncertainty (*Young Professionals*)

Each career step we take is ridden with uncertainty. Be motivated to step into the unknown, take risks and learn how to pivot from failed experiments to success.

Teaching Curiosity (*Educators*)

K-12 educators learn creative ways to excite students from diverse backgrounds about inventing and are shown ways to introduce invention education in the classroom.

Be Customer-Centric: How to Innovate in Academia and Industry (*Undergrads, Grad Students, Faculty*)

Examine product development in academia and industry and highlight the importance of understanding the target customer persona.

BOOK READINGS

Arlyne regularly schedules virtual and in-person book readings at schools, libraries, bookstores and camps.



INNOVATION WORKSHOPS

Brainstorm

Students are guided through an exercise to identify problems that they'd like to solve, highlight users of their invention and name their invention.

Imagine, Invent, Iterate

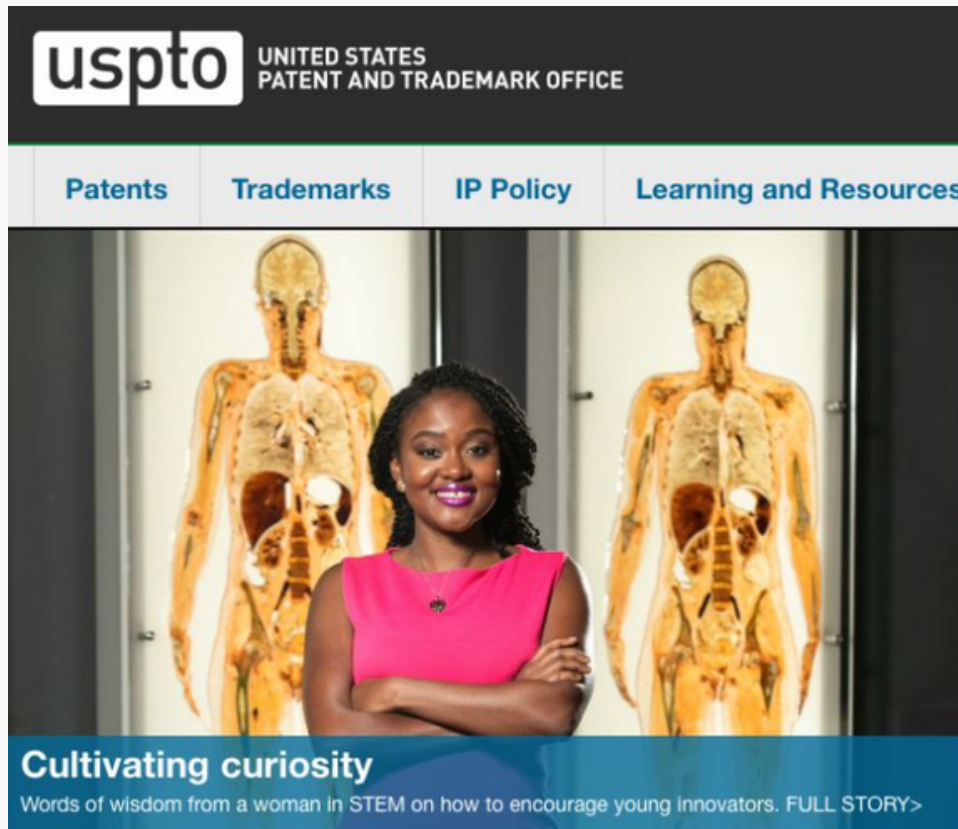
Using household materials, K-5 students are guided through an iterative exercise to improve the design of an object/widget.

Invent Like Abby

Observe how Abby follows the engineering design process in Abby Invents The Foldibot and create your own inventions

IN THE NEWS

Arlyne is regularly sought after to share her journey to innovation



SELECT PRESS

United States Patent & Trademark Office, [*Cultivating Curiosity*](#)

Oregon's Public Radio, [*Portland scientist, Arlyne Simon, writes Abby Invent's*](#)

Portland Monthly Magazine, [*Engineer and Scientist, Arlyne Simon, wants to inspire children to go into STEM*](#)

Portland's KGW, [*'Women In STEM exist: We do great things'*](#)

Carnegie Science Center, [*Science Center Installation Honors 'Diverse Representation Of Female Scientists'*](#)

REVIEWS

Here's what a few people had to say about Arlyne's talks



"Thank you for your energy, passion and transformative work. All of it was on full display today and it was an absolute honor to be a guest and hear your story. Your presentation was beautiful and engaging. The students had SO many questions and were so excited to be learning from you. What a terrific time!" - Kate Anderson, **Beyond Benign**

"You were amazing! That was a fantastic presentation. I know that everyone is raving about all the ideas and thoughts you shared. What a great start to our conference!" - **Elementary STEM CON**

"Thank you for taking time to talk at our Entrepreneurship Speaker Series [in March'22]. Your presentation was truly inspiring. It was quite apparent how every single person at the event was engrossed by your talk and we only heard positive feedback." - **University of Oregon, Knights Campus**

WORK WITH ME

Would you like to collaborate with Arlyne on a speaking event, corporate sponsorship, bulk book purchases, something else?

Email Arlyne at arlynesimon@gmail.com

