

Initiated by Ana C. Alba-Rubio | Illustrated by Pooja Kumar | Funded by the National Science Foundation



To every child that dreams of changing the world,

This work was supported by the National Science Foundation under Grant No. 2154386.

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Editor's Note

Welcome to this extraordinary coloring book celebrating the remarkable women scientists and engineers of Clemson University! We are thrilled to present this unique project, which was initiated by the visionary Dr. Ana C. Alba-Rubio, designed and illustrated by Pooja Venkatachalam Kumar, and generously funded by the National Science Foundation (NSF).

Within these pages, you will embark on an inspiring journey through the world of science, guided by the stories and achievements of the brilliant women who have made invaluable contributions to their respective fields. These scientists, with their dedication, passion, and unwavering commitment to discovery, have left an indelible mark on the scientific community and serve as role models for aspiring young scientists everywhere.

From biology to chemistry, physics to engineering, these pages showcase the diversity of scientific disciplines that thrive at Clemson University, where innovation and excellence know no bounds. Through vibrant illustrations and captivating stories, this coloring book invites children to explore the fascinating world of science and learn about the trailblazing women who have played pivotal roles in shaping it. We hope that this coloring book not only inspires creativity and curiosity but also serves as a tribute to the dedication and resilience of women in science. Dr. Ana C. Alba-Rubio's vision and the support of the National Science Foundation have made this project possible, emphasizing the importance of fostering diversity and inclusion in STEM fields.

As young minds immerse themselves in the stories and illustrations, we hope they find inspiration to pursue their own scientific dreams. May this coloring book serve as a reminder that there are no boundaries to what they can achieve, and that, like the incredible women scientists featured here, they too can leave an indelible mark on the world.

Thank you for joining us on this exciting journey. We hope you enjoy coloring these pages as much as we have enjoyed bringing them to life. Together, let us celebrate the power of curiosity, determination, and the limitless possibilities of science.

Happy coloring!

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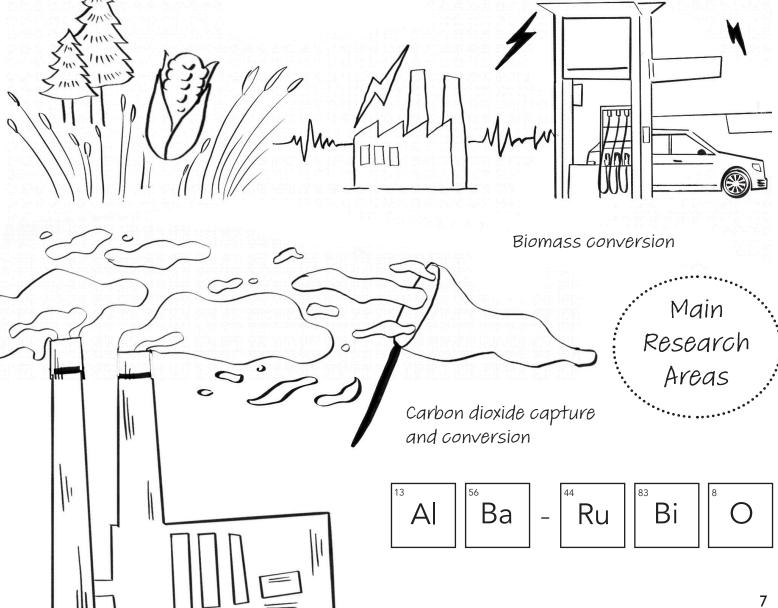
Dr. Ana C. Alba-Rubio

COLORS TO BE USED FOR THE SCIENTIST Hair - Brown Skin - Light almond Favorite Color - Blue

Associate Professor Chemical and Biomolecular Engineering Clemson University, SC

Dr. Ana C. Alba-Rubio is a chemical engineer. She is from Spain and teaches at Clemson University. Dr. Ana also enjoys nature and spends time hiking and swimming in the lake with her spouse. She has a big family of pets, including three dogs and three cats! In her lab, Dr. Ana

works on cool science projects to help our planet by turning carbon dioxide and biomass into fuels. She also finds new ways to recycle plastics. Plus, she's passionate about encouraging girls to love science & engineering.



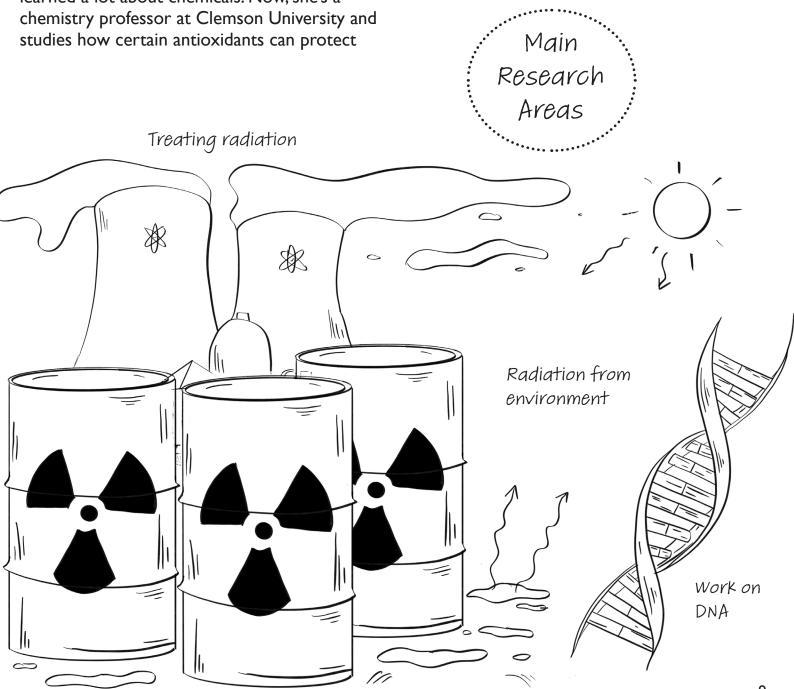


Dr. Julia Brumaghim

COLORS TO BE USED FOR THE SCIENTIST Hair - Brown + White Skin - Very light golden Favorite Color - All colors!

Professor Chemistry Clemson University, SC

Dr. Julia Brumaghim became interested in chemistry when she was a student, just like you! She worked in different laboratories and learned a lot about chemicals. Now, she's a chemistry professor at Clemson University and studies how certain antioxidants can protect our DNA. When she's not doing science, she's busy taking care of her family, reading science fiction books, and swimming whenever she can.





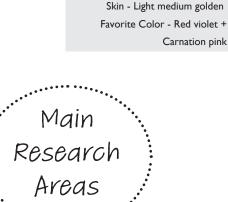
COLORS TO BE USED FOR THE SCIENTIST

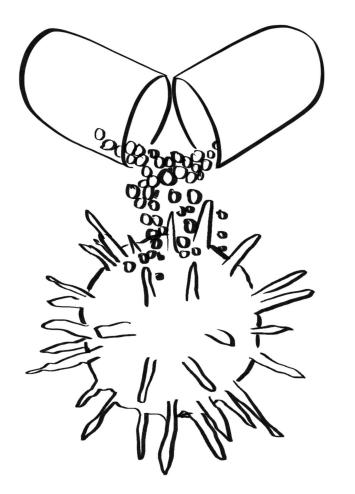
Hair - Brown

Dr. Jessica Larsen

Associate Professor Chemical and Biomolecular Engineering Clemson University, SC

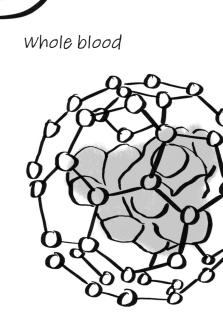
In the Larsen Lab, Dr. Jessica Larsen and her team are like modern-day magicians with science! They use cool things like nanotechnology and special materials to create new ways to deliver medicine. One of their main goals is to develop tiny carriers that can go through barriers in our body, like the one protecting our brain, to deliver medicine exactly where it's needed.





Drug delivery

Nanoparticles



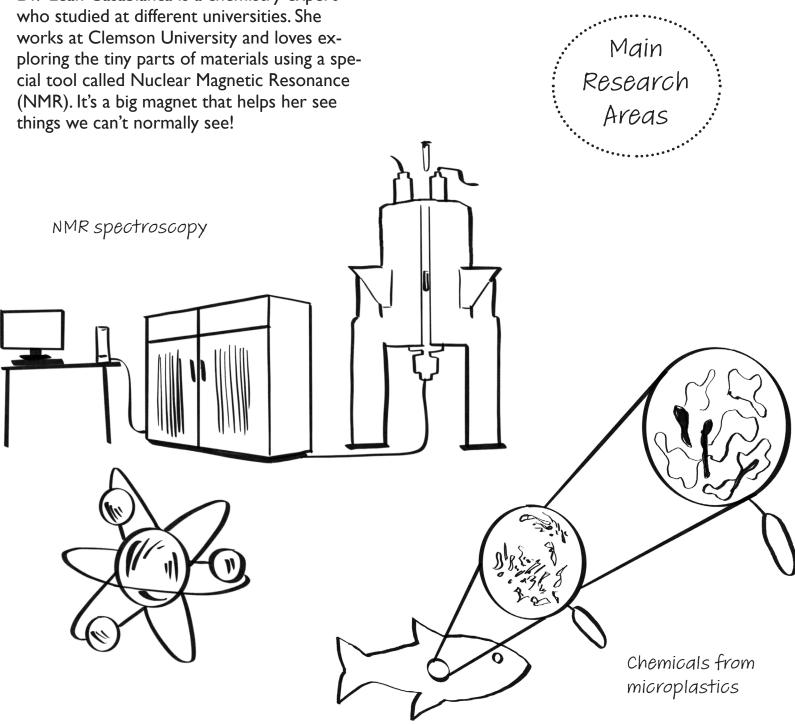


Dr. Leah Casabianca

Associate Professor Chemistry Clemson University, SC

Dr. Leah Casabianca is a chemistry expert

COLORS TO BE USED FOR THE SCIENTIST Hair - Black + Brown + White Skin - Very light golden Favorite Color - Blue violet





Dr. Shunyu Liu

COLORS TO BE USED FOR THE SCIENTIST Hair - Black Skin - Light medium golden Favorite Color - Yellow orange

Assistant Professor Automotive Engineering Clemson University, SC

Dr. Shunyu Liu is a professor who works with materials and manufacturing. She joined Clemson University recently and has a special lab where she uses lasers to create new materials. She loves teaching about this and works on projects to help students learn better. In her free time, she enjoys being with her two cats and looking for wild foods like mushrooms and seafood.

Main Research Areas

Laser additive manufacturing



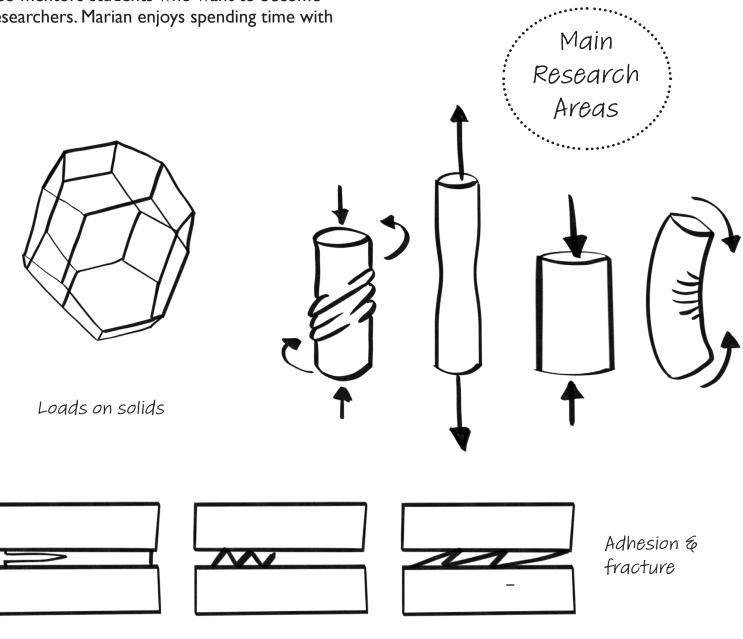
COLORS TO BE USED FOR THE SCIENTIST Hair - Brown + Black + White Skin - Light rose + Freckles

Favorite Color - Blue

Dr. Marian Kennedy

Associate Professor Materials Science and Engineering Clemson University, SC

Dr. Marian Kennedy is a professor who studies how metal deform and fracture. She and her team share their findings with other scientists so that they can build reliable structures. She also mentors students who want to become researchers. Marian enjoys spending time with her children as they play at the parks and going to church with her spouse.



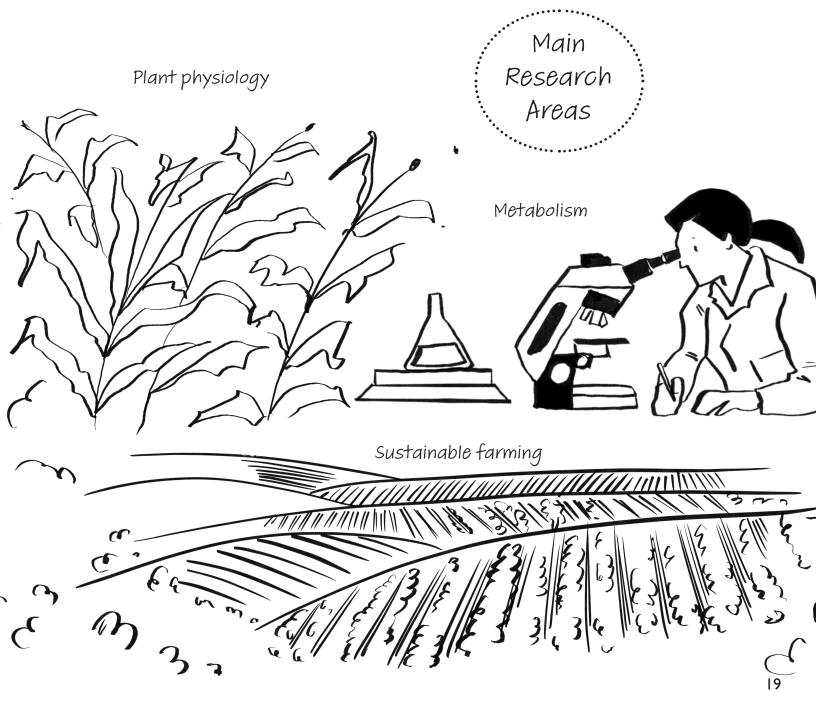


Dr. Sruthi Narayanan

COLORS TO BE USED FOR THE SCIENTIST Hair - Black Skin - Light golden Favorite Color - Yellow orange

Associate Professor Plant and Environmental Sciences Clemson University, SC

Dr. Sruthi Narayanan is a professor who studies how plants grow under tough conditions like heat and drought. She wants to help farmers grow crops even when the weather is challenging. She teaches students about plants and loves spending time with her family, enjoying nature, reading, and listening to music.





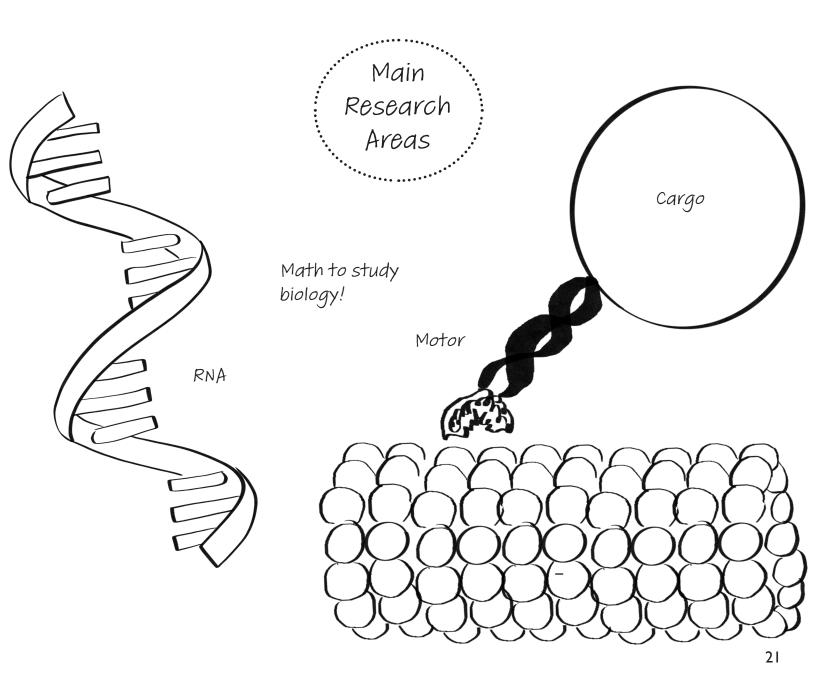
COLORS TO BE USED FOR THE SCIENTIST Hair - Brown + Black Skin - Deep golden

Favorite Color - Carnation pink

Dr. Keisha Cook

Assistant Professor Mathematical and Statistical Sciences Clemson University, SC

Meet Dr. Keisha Cook, a Mathematics Professor at Clemson University. She grew up in Marietta, GA, and loved math because it's like a puzzle that helps us understand the world. She originally wanted to be a math teacher, but then became a university professor. Outside of math, she loves trying new foods in different cities and enjoys cooking. She shows that cooking can be a tasty way to use math!



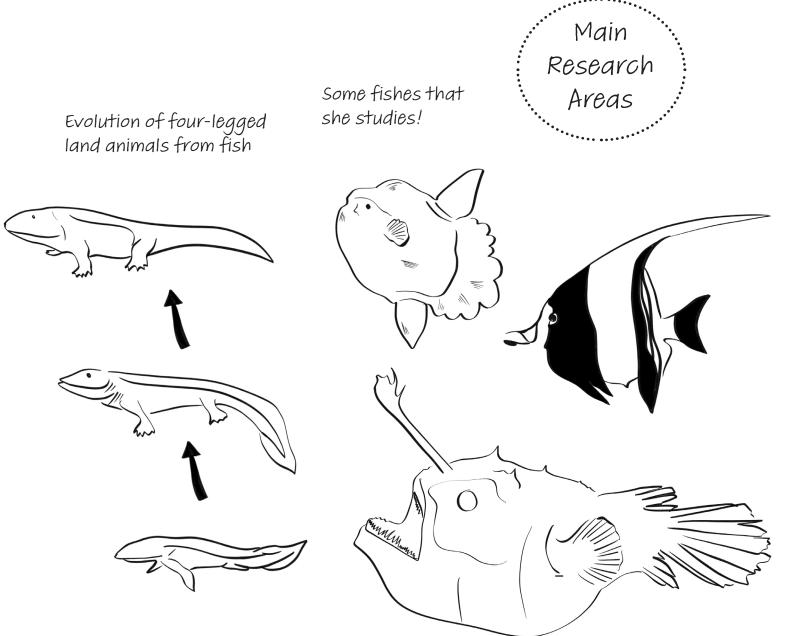


Dr. Samantha Price

Assistant Professor Biological Sciences Clemson University, SC

Dr. Samantha Price is a scientist who studies the amazing variety of fishes in our oceans and rivers. She looks at fishes in museums and tries to understand how their shapes have changed because of where they live and what they eat. COLORS TO BE USED FOR THE SCIENTIST Hair - Brown Skin - Very light golden Favorite Color - Green + Blue green

When not studying fishes, she enjoys hiking, kayaking, and cooking delicious foods like bread, cakes, and jams.





Dr. Melissa Smith

COLORS TO BE USED FOR THE SCIENTIST Hair - Yellow + White Skin - Very light golden Favorite Color - Red violet

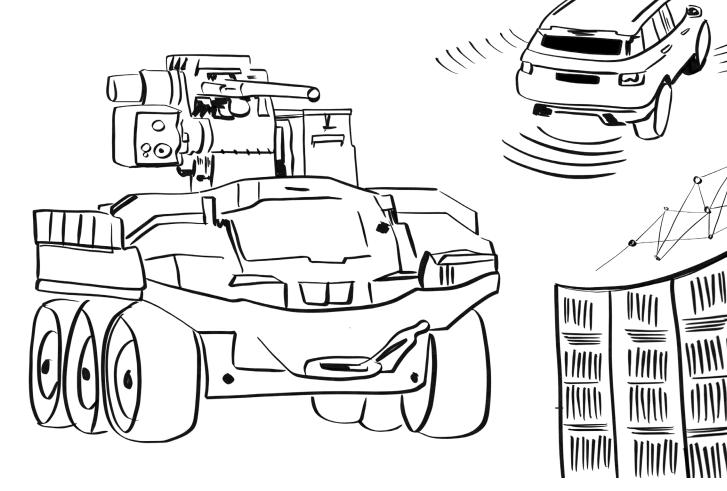
Professor Electrical and Computer Engineering Clemson University, SC

Dr. Melissa Smith is a professor and a big boss in her college at Clemson University. She's an expert in computer engineering and has worked on many interesting projects, like making computers faster and smarter. She's won several awards for her work and enjoys run-

Using sensors and artificial intelligence for vehicles

ning marathons. She also has a pilot license and flies to see her daughters' dance and sporting events.



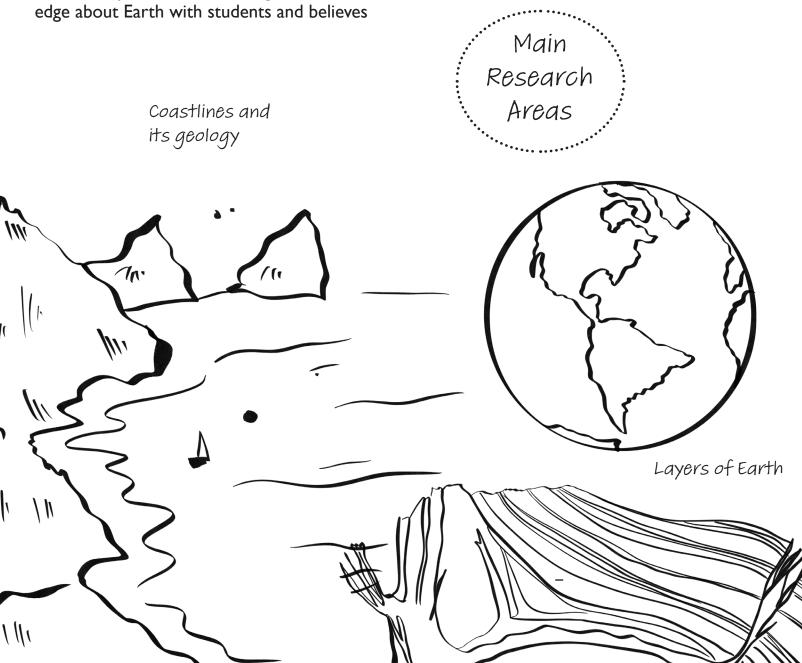




Dr. Kelly Lazar

Assistant Professor Engineering & Science Education and Environmental Engineering & Earth Sciences Clemson University, SC

Dr. Kelly Lazar is a geologist, which means she studies our planet, Earth. She's especially interested in how the coastlines change over time. To find out, she examines sand and mud under a microscope. She loves sharing her knowledge about Earth with students and believes you could be a geologist too! When she's not working, she enjoys watching sports, playing games, and watching movies with her spouse and three cats.



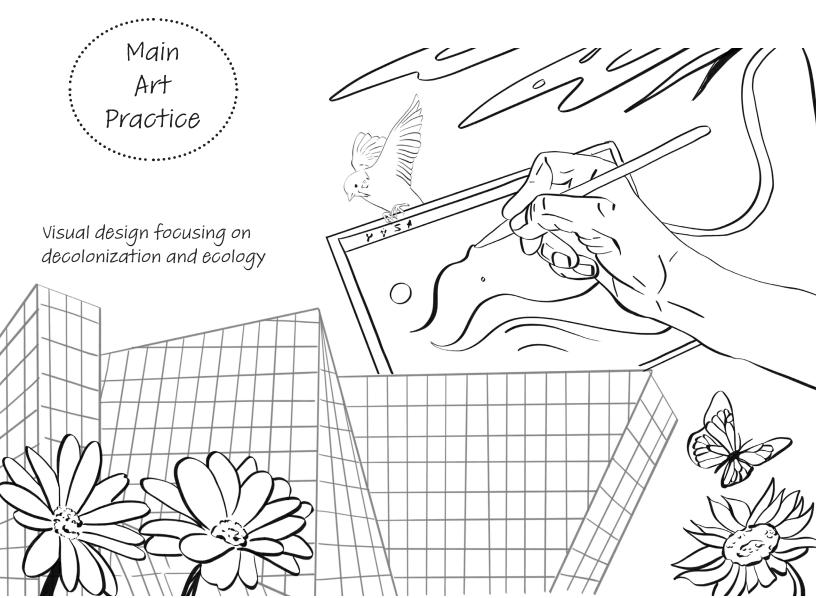
COLORS TO BE USED FOR THE SCIENTIST Hair - Brown Skin - Very light golden Favorite Color - Carnation pink



Pooja V. Kumar

Master of Fine Arts in Illustration Practice Maryland Institute College of Art Baltimore, MD

Pooja Kumar is a super talented artist who used to be a chemical engineer. Now, she's studying at the Maryland Institute College of Art, a really famous school for learning about art and design. Pooja's art is special because it's all about mixing science with art. She believes that by using art, she can help people understand science better. Her main goal is to close the gap between tricky science stuff and what we all know. Pooja wants to make science fun and easy for everyone to get. She thinks that when you add cool pictures and real science facts together, it's not just easier to understand, but it also makes people more curious and excited about learning.



COLORS TO BE USED FOR THE SCIENTIST Hair - Black Skin - Medium almond Favorite Color - Blue green

