Of course!² Seven inspiring stories about becoming a scient

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becoming a scientist

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The number of women in science and academia drops with each level of qualification in the fields of science, technology, engineering and mathematics (STEM fields). In Germany about 30% of the students in mathematics and natural sciences are women and this number drops to about 15% for professors. As a result, the STEM fields lack the rich diversity of the German population. This has serious consequences on the research system. Diverse workplaces have been shown to be more productive, more innovative and more creative because people with different backgrounds address problems in different ways, ask different questions, and come up with different hypotheses and strategies to solve problems.

One way to address this systematic under-representation of women in STEM fields in academia is to provide role models, women and men, to the students and scientific community.

A first booklet "Of course!" appeared in 2021 and featured eight inspiring stories of role models. The booklet "Of course!2" you are holding in your hands presents a second collection of seven interviews of researchers who experienced gender discrimination and imbalance during their education or at their work place, in Germany, in Europe and in North America. They actively made positive changes allowing them to lead a happy and fulfilled life as a scientist. May these people inspire you and encourage you to pursue your dreams!

Sue's story by Annina Brell





Til's story by Franziska Ruflair





Hella's story by Anaïs Poilpré





Verena's story by Sheree Domingo



1974: The same teacher persuaded her to take a scuba diving course while she completed her degree.







At 22 she started Grad School in Yale, and did her PhD on Coral reefs in Jamaica.



At the time of her PhD, no one cared about coral reefs. But when their destruction revealed how important they are, her work started to get attention.





... while Men were always hired for the positions she had applied for. All this led her to depression.





She took the chance and spoke to the people on the pier.. They were going on a test dive 800m deep in a fjord, and invited her to join.



That was an eye-opening moment. So deep in the ocean, there was no sunlight, and what she saw changed her life. The following year, she got a faculty position in Canada.



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At the Age of 28, Verena became the first woman to lead a deep-sea science expedition close to Canada's West Coast. There, she made the discovery of hot vents.

With all-men crews, most considering women as pin-ups or porn figures.



But she was now in control and could handle the situations.



Verena has spent a lot of time on ships since then, as more and more women went to sea. She notices the atmosphere became more welcoming, and that men enjoyed life more as well.



There are nearly 100 species described that she originally collected, ten of which are named after her. Like this hairy beast: the deep sea spider *Sericosura Verenae*.











Verena is happily married since 33 years, and has a wonderful daughter. An important message to her students: it is possible to combine an academic career and having a family!



Volkmar's story by Seda Demiriz





Seda Demiriz 2021

Ulrike's story by Vallale

I've always loved puzzles and solving math problems... But it took me a while to find my dream job.



After I finished school, I spent a year in Nigeria as a kindergarten and a primary school teacher in an SOS Children's Village.



Then, I studied geography.

I came back to Germany to study ethnology and African languages.



While I studied geography, one of my minor subjects involved mathematics, physics and was very relevant for society. I loved it.

But all these jobs were not for me...

So, I choose meteorology studies and thanks to learning and discussing with my fellow students, I got very good grades!



After my PhD, I went to Canada for a Postdoc and I became professor in atmospheric physics. I was the only woman and all my colleagues were at least 20 years oder than me.





I'm now a professor for experimental atmospheric physics in Switzerland. My research group consists of 40% women and is very international.



Petra's story by Johanna «Schlogger» Baumann





Find out more about the researchers



<u>Sue</u> (S. 4) is professor of Atmospheric Science at Colorado State University. She was part of the collaborative research center "Waves to Weather" (CRC 165).

https://www.atmos.colostate.edu/people/faculty/van-den-heever/



<u>**Til**</u> (S. 6) is professor for theoretical astrophysics at the LMU. https://www.til-birnstiel.de



<u>Hella</u> (S. 8) is a junior professor at the Institute of Atmospheric Physics of the German Aerospace Center in Oberpfaffenhofen close to Munich. She is part of the collaborative research center "Waves to Weather" (CRC 165).

https://www.wavestoweather.de/people/project_leaders/garny_hella



Verena (S. 10) is Emeritus Professor jointly appointed in the Department of Biology and the School of Earth and Ocean Sciences at the University of Victoria, Canada.

https://tunnicliffelab.wordpress.com/lab-members/about/



Volkmar (S. 14) is professor for theoretical meteorology and atmospheric physics at the Institute for Atmospheric Physics at the Johannes Gutenberg-University in Mainz. He is part of the collaborative research center "Waves to Weather" (CRC 165).

https://www.wavestoweather.de/people/project_leaders/wirth_volkmar



<u>Ulrike</u> (S. 16) is professor in atmospheric dynamics at the Eidgenössische Technische Hochschule Zürich (ETH). https://usys.ethz.ch/en/people/profile.ulrike-lohmann.html



Petra (S. 18) is a senior researcher at the Norwegian Research Centre NORCE and the Bjerknes Centre for Climate Research, in Bergen (Norway).

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Seda Demiriz (S. 14) is an illustrator, graphic designer and comic artist from Mainz. She works for clients in advertising, culture, science and for international publications. She loves coffee and science fiction. <u>Web:</u> https://sedademiriz.com/ <u>Instagram:</u> @seda_demiriz, @lifeinpixels_comic Vallale (S. 16) is an office worker who draws and makes comic books in his free time. He lives in Paris, France. <u>Web:</u> www.vallale.com <u>Instagram:</u> @super_vallale





Johanna «Schlogger» Baumann (S. 18) is a cartoonist and a graphic recorder, the author of five books, the mother of two children, and lives in Hamburg. <u>Web:</u> www.schlogger.de <u>Instagram:</u> Twitter und Facebook: @theschlogger



For more information on this project and additional inspiring stories, visit:

https://www.wavestoweather.de/equal_opportunity/activities/comic-book

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