

Meet Siemens Healthineers

Siemens Healthineers: Our brand name embodies the pioneering spirit and engineering expertise that is unique in the healthcare industry. The people working for Siemens Healthineers are totally committed to the company they work for, and are passionate about their technology. In this section we introduce you to colleagues from all over the world – people who put their hearts into what they do.

Rebecca Ramb

Rebecca Ramb became Global Head of MR Collaboration Management at Siemens Healthineers after several years of active MRI research in academia. She completed her doctorate in Mathematics and MR Physics at the University of Freiburg, Germany, focusing on Parallel and Echo-Planar Imaging as part of Jürgen Hennig's group. In 2016, she won the Ferdinand-von-Lindemann prize for her work. Rebecca Ramb later worked as a postdoctoral fellow on Compressed Sensing Cardiac MRI together with Dan Sodickson and Ricardo Otazo at the New York University Langone Medical Center, USA. She has gained teaching experience of MR Physics, teaching MR techs as part of EduMed AG, Switzerland, and future MR techs as part of the University Medical Center Freiburg.

Rebecca is also a certified choir conductor and organ player. Since working for Siemens Healthineers, Rebecca has spent considerable time looking into how new technologies can better account for biovariabilities in MRI. She has also been part of the launch of two new 1.5T systems that address the daily challenges of clinical routine: 1.5T MAGNETOM Sola and MAGNETOM Altea. When she's not completely magnetized by MR, she enjoys running, yoga or playing the piano.



Erlangen, Germany



How did you first come into contact with MRI?

After studying mathematics, where I was convinced that only the most abstract and theoretical math was fun – I walked into the lab of Jürgen Hennig and was immediately captivated when I saw how theory can become reality – and how it can impact patients. I was incredibly impressed by this open, friendly, and smart interdisciplinary research group.

What is most fascinating about MRI?

There are so many things ... Please, don't laugh, but to me, it's still the very basic part that fascinates me: How we actually measure Fourier coefficients. For a mathematician like me, someone who always worked with theoretical concepts, when I first calculated how we actually really measure Fourier coefficients myself, I was thrilled. Fully understanding the basic signal excitation and processing, learning how encoding and reconstruction interplay, that's fun.

What is the most fascinating aspect of your job?

In my role as Collaboration Manager, I'm amazed every day at how much Siemens Healthineers invests (time and

effort) into collaborating with its partners. We strongly believe that translation to clinical routine can only be achieved through a significant academic-industrial joint effort. This is what I work toward every day.

What do you think are the most important developments in MRI and in healthcare?

Gradient encoding and parallel imaging are certainly one of the milestones in MRI for me. I also believe that the clinical scientists nowadays who really put all their effort into creating and proofing the value of MR techniques by connecting the clinical questions and rigorous research are truly impressive.

What would you do, if you could spend a month doing whatever you wanted?

My bucket list is quite long! Whenever I can, I take three weeks off to travel to an exotic place. In August, I spent three weeks in Mongolia and last winter, I went hiking in Nepal. This gives me a chance to let my mind wander off so I can come back filled with creative ideas. I believe this is so helpful for my job and for me, personally.