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Annual Report 2025

Science Shop Report

June 2026



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Colophon

What is a Science Shop?

A Science Shop gathers scientific questions from residents and community organizations who do not have the means to conduct research themselves. In doing so, Science Shops form a bridge between the university and society. Research is conducted free of charge by students under the supervision of academic staff. This way, students learn how to conduct research and what research can mean for society. This benefits society, science, and students alike!

So, do you have a scientific question you would like to have researched? Don't hesitate to contact us!

For most of the projects discussed in this annual report, reports and articles have been published. These are available for free download at www.rug.nl/wewi. If you are interested in any of the topics discussed, feel free to contact the respective shop. The Science Shop Yearly Review is a joint publication of the Science Shops of the University of Groningen.

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Welcome to the jungle!

Science is a jungle. It is colourful and incredibly diverse. In the jungle of curiosity, theoretical physicists, with their deep roots, stand side by side with political scientists, who must always adapt to the political climate, all rooted in the rich soil of philosophy. It is a fragile system: populist bulldozers are always lurking, ready to turn this rich ecosystem into an ideological monoculture.

The fear of diversity often stems from ignorance. Science is a jungle in that sense as well, because it feels inaccessible, impassable, and elusive. This is why we have the Science Shops: a sharp machete against cynicism and indifference.

So, grab your torch and mosquito repellent, and let us venture together into the wondrous world of PFAS, early school-leavers, and church wainscotings. On our journey, you will meet language learners, elderly vegans, and train-traveling professors who ride the rails. This is naturally held against a backdrop of philosophical questions that invite us to view nature through the eyes of a black-headed gull.



(Now that I think about it, perhaps those philosophers are like stinging nettles, which prick you without being asked.)

Happy reading!

VINCENT HAZELHOFF



The Science Shopkeepers - from left to right: Vincent Hazelhoff, Marit Nygård, Sarah Veenstra, Yorick Karseboom, Karin de Boer, Niels Alberts-Visscher, Yvonne van Kollenburg, Mariëtte Hingstman, Marc Pauly, Thomas Wieringa, Henk Mulder. Not in the photo: Marij Veldman, Nils Elzinga.

Author: Yorick Karseboom

IS PHILOSOPHY APPLICABLE TO SOCIETY? NATURALLY!

Just outside the city of Groningen lies a unique area: the Onlanden. This rugged natural area, with marshy fields, hay meadows, and swamp forest, covers an area roughly equivalent to 3,500 football pitches. It is home to countless species of birds, fish, otters, and other animals. It is a beautiful natural area, but not something to be taken for granted.

The Natuurbelang de Onlanden Foundation is committed to nature conservation in the Onlanden. This is because the area is under pressure. Invasive species, the ever-expanding city creeping closer and closer, and recreational activities are disrupting the natural balance. The foundation strives to maintain the ecological balance in the Onlanden, and it is committed to raising awareness of all that takes place in this nature reserve. At the heart of this lies our human relationship with nature.



But what is this relationship exactly? What role does human experience play in it? The foundation approached the Philosophy Knowledge Centre with this issue, which led to an interesting project within the Philosophy Outside the Walls course. In this course, students develop a perspective on philosophical issues that arise within organizations and businesses. In spring 2025, four students worked with the Natuurbelang de Onlanden Foundation to conduct research into the relationship between people's experience of nature and nature management. To present an idea of this project, we will give the floor to three of the students involved: Fardau de Boer, Renske de Boer, and Barbara de Grouw.

What did you research for the project?

Fardau: Throughout our project, we were supported by Lieselot Smilde and Jaap van der Steen from the Natuurbelang de Onlanden Foundation. Both have a deep love for and extensive knowledge of the nature reserve. They asked us how we might improve the relationship between humans and nature from a philosophical perspective. This question has arisen for several reasons. For example, visitors to the Onlanden often wear earphones and are oblivious to the natural surroundings when they use the area to practise a sport. How can you make these visitors more aware of the natural world around them?

Which philosophical theory or theories did you apply?

Barbara: Among other sources, we drew on Martin Lee Mueller's work, *Being Salmon, Being Human*. Mueller criticises the notion of human superiority and

argues that understanding other animals is essential to being fully human. We also drew inspiration from the work of Guy Debord when designing the brochure. Debord writes about the relationship between capitalism and humanity, and how this relationship leads to an unnatural urge to consume everything around us, including nature.

Renske: That imbalance between humans and nature is precisely what the Natuurbelang de Onlanden Foundation has observed: people view nature as a backdrop and no longer see themselves as 'part of' it. In response to this problem, we used concepts such as relationality (the extent to which things are connected) and a sense of wonder to reconnect people with nature.

Fardau: We soon came up with the idea of combining philosophy with a field trip. The guided tour of the Onlanden made a lasting impression on us all, and we wanted others to have a similar, meaningful experience. We therefore decided to translate the philosophical insights of Mueller and Debord into a practical application. We designed a brochure highlighting various features within the Onlanden. Each point is accompanied by a specific perspective, such as that of the Kestrel, the Black-headed Gull, the Willow Warbler, and humans. Visitors are invited to pause, look, and listen from these perspectives. We invite visitors to experience the Onlanden and reconsider their place within the ecosystem.

What was your most important takeaway from the project?

Renske: What has stayed with me most from the project is the nature reserve itself. After the field trip, I kept going back to the Onlanden. This has taught me that I can apply the things I learn in philosophy more effectively in my own life. For example, I no longer



I NO LONGER LISTEN TO MUSIC WHEN I GO FOR A WALK, AND I TRY TO LOOK AT THINGS WITH GREATER ATTENTION OR WONDER.



listen to music when I go for a walk, and I try to look at things with greater attention or wonder. In addition, this project has taught me to work better with others. Most assignments in our degree programme are completed individually. It was nice to work together for a change, although it sometimes did not go so smoothly, and it took some getting used to.

Barbara: What has stayed with me most is that philosophy can be applied to any discipline. For example, philosophy can be applied in the natural world, as well as in very different fields, as demonstrated by other projects in Philosophy Outside the Walls. Because we were given the space and freedom to work on a project, we were ultimately able to create a wonderful end product – which is now being used by the Onlanden Foundation. It's really special to know that, during our degree programme, we've created something that's actually being used.

In memoriam:

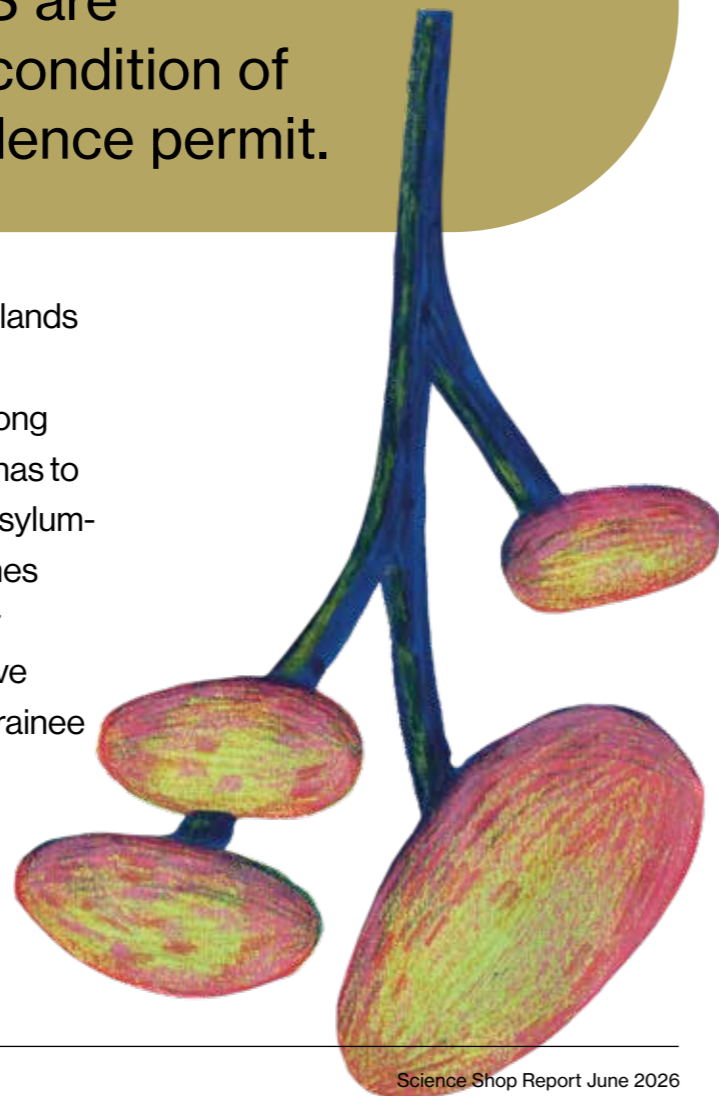
We were recently informed of the passing of Lieselot Smilde. As a board member of the Natuurbelang de Onlanden Foundation, Lieselot gave a voice to the marsh lark and the skylark, to the otter and the marsh marigold, to the water pennywort, and to everything with a beak. With her energy and infectious optimism, she continued to champion what is perhaps the most beautiful stretch of countryside in the Netherlands right up until the very end: De Onlanden. She shared her passion for nature with the students and guided them with great enthusiasm through various projects, including the one described above. Thank you, Lieselot.

Authors: Vincent Hazelhoff, Berber Munstra and Thomas Wieringa

STUDENTS AND REFUGEES - A MIGHTY MEDICAL MATCH?

Trainee doctors at WIJS are assessing the medical condition of newcomers with a residence permit.

Just imagine: you have come to the Netherlands as a refugee to escape war, violence, or oppression. Once in the Netherlands, the long wait begins. First, your asylum application has to be approved; then you have to wait at the asylum-seekers' centre (AZC) until housing becomes available. But what if you have a physical or mental disability and therefore need to move into accessible housing? In that case, the trainee doctors at WIJS can help.



“

IF THE HOUSING IS NOT SUITED TO THE PHYSICAL OR MENTAL DISABILITIES OF THESE NEWCOMERS, THEY WILL OFTEN BE FORCED TO MOVE AGAIN WITHIN THE FORESEEABLE FUTURE

Out of the frying pan and into the fire

It was bad luck for Hany Abdulkader. After finishing secondary school, the Saudi-born Eritrean had moved to Ukraine to study medicine. In 2022, he had just completed his degree programme when Russia invaded the Donbas region. Hany came to the Netherlands as a refugee and, since that time, he has been here as a 'statushouder,' a newcomer with a temporary residence permit. During this time, he has learned Dutch and became acquainted with the Dutch healthcare system, so that he will soon be able to start working as a doctor. While he waits for his certification, he does volunteering work for Humanitas, where he and other Social Medicine trainee doctors at WIJS hold consultations with newcomers.

The local authorities are obligated to find housing for people who have come to the Netherlands as refugees and been granted residence status. Once on the waiting list, they stay at the asylum seekers' centre until housing becomes available. Some newcomers have urgent medical needs, however, and they cannot wait for housing. This is the case for people with disabilities or mental health issues. Providing these people with suitable housing requires a medical history – an interview designed to assess a person's medical condition.

For privacy reasons, the Central Agency for the Reception of Asylum Seekers (COA) is not permitted to share medical data on newcomers with the local authorities. This is unfortunate, given the ever-present risk of unsuitable housing. If the housing is not suited to the physical or mental disabilities of these newcomers, they will often be forced to move again within the foreseeable future. Such situations are stressful for the individuals involved, and they entail unnecessary costs. Hany and the students take

charge of the medical histories. As Hany explains: 'It is actually a kind of general health analysis. How are they doing physically and mentally? What is their background? Are they taking any medications?' It is a complex and sensitive process that must be handled with care. By asking the right questions of newcomers with medical conditions, Hany and the students help to reveal the person behind the residence status. This makes it possible to find suitable types of housing.

The person behind the condition

Bo Slot is one of the trainee doctors supporting these medical histories through WIJS. Over the course of four weeks, students like Bo get to know this side of the healthcare system. It takes some getting used to. 'It's quite different from the hospital setting,' Bo notes. 'Here, we pay a lot more attention to a person's social context and other external factors that are in play.' For example, students soon discover that, when newcomers have urgent medical needs, there is often more to the situation than is initially assumed: 'Some people are afraid to say that they're ill, for fear that they won't get a house.' Sometimes, the picture can be distorted by a lack of trust between the newcomer and doctors at the COA, with the result that people are placed in housing in which they cannot live.





Volunteers Hany and Berber from WIJS at the Floreshuis, where medical histories are taken.

Migrant, refugee, newcomer with a residence permit, asylum seeker?

It can sometimes be quite confusing to know which term to use when talking or writing about newcomers to the Netherlands. They are often used interchangeably, even though there are significant differences between them. To clarify: migrants move to the Netherlands of their own free will – for example, for love or for work. Refugees are different. They have had to leave the country involuntarily for reasons such as religion, ethnicity, or sexual orientation. People coming to the Netherlands as refugees apply for asylum in the Netherlands. As asylum seekers, they live in an asylum seekers' centre until their asylum status is approved, after which they receive a five-year temporary residence permit. They are then referred to as newcomers with a residence permit, 'statushouders' in Dutch. From that point onwards, the local authorities are legally obliged to arrange housing, and the newcomers can start the integration process.

The key difference in this partnership lies in its selfless, adaptable, and accessible nature: students who take the time to engage in conversation, and volunteers (like Hany), who can take on the roles of medical expert, peer support specialist, and interpreter. For example, Hany speaks Dutch, Russian, Arabic, and Tigrinya – languages that will get you a long way. Although thorough medical assessment is important for newcomers, the interaction between the students and newcomers goes beyond that. It makes students better doctors, according to Bo: 'In the hospital setting, you mainly learn to approach people based on their condition, or to view patients as mere numbers. Here, you learn to understand the person behind the condition, as well as the underlying causes.'

The gap between the system and lived reality

Understanding the Dutch healthcare system is a challenge for newcomers, students, and professionals alike. The situation is complex, and people do not always know what they are entitled to. Marginalized groups (such as refugees) are particularly likely to bear the consequences of the gap between the system and their everyday lives.

“
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THERE IS OFTEN MORE TO THE SITUATION THAN IS INITIALLY ASSUMED: 'SOME PEOPLE ARE AFRAID TO SAY THAT THEY'RE ILL, FOR FEAR THAT THEY WON'T GET A HOUSE.'”

Students are therefore working on small-scale projects to develop products that could help bridging this gap. For example, Bo is working with a fellow student, Anna, to develop a course on pregnancy and parenthood, specifically aimed at newcomers. The infant mortality rate is much higher among refugees than it is among people born in the Netherlands. Other students have already produced roadmaps and factsheets on the Dutch healthcare system for newcomers, in addition to designing a pocket guide for GPs who see uninsured Ukrainian refugees (see Image 2).

The deployment of trainee doctors at WIJS is still in the early stages, and it needs further development based on experience and the knowledge gained. WIJS is currently investigating how trainee doctors can engage with accessible healthcare issues in a sustainable way, so that people who are currently excluded from healthcare can be assisted in an accessible manner. In the meantime, Hany is working hard to improve his Dutch so that he can start work – not as a volunteer this time, but finally as a GP.

Zorg verleend aan iemand zonder zorgverzekering?
Zo vindt u via welke regeling u kunt declareren!

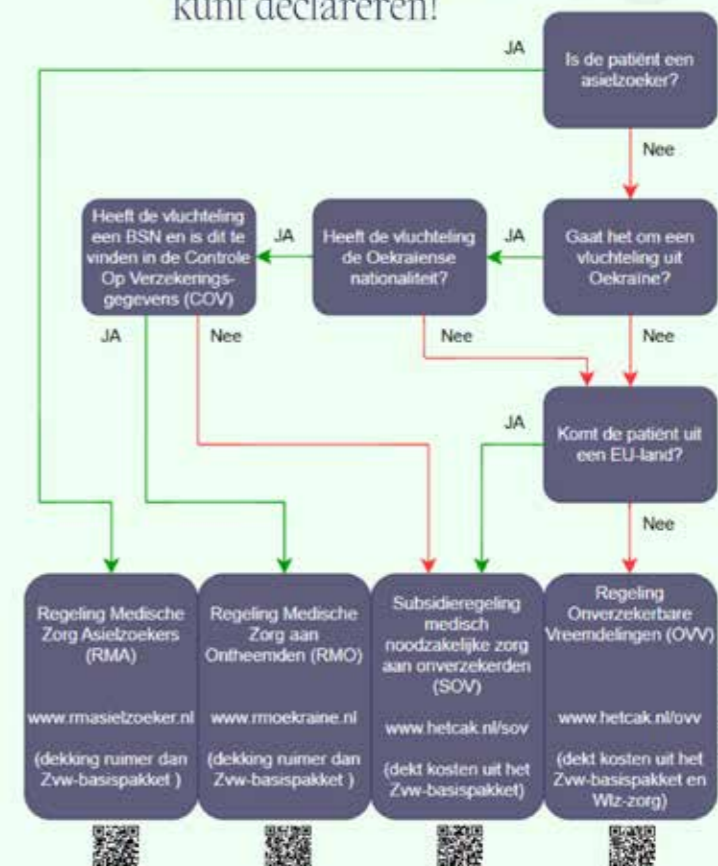


Image 2: Dutch pocket-key for general practitioners that are visited by Ukrainian refugees without insurance.

About WIJS

Wijkznet Jongeren en Studenten (WIJS) is a network organization consisting of Hanze University of Applied Sciences, Noorderpoort, Alfa College, the Municipality of Groningen, WIJ Groningen, and the UG. Together, they link issues from the City of Groningen to students (and their research). WIJS works primarily with existing initiatives, including the programme for trainee doctors, which involves collaboration with the Municipality and Humanitas.

WORDS ARE GOOD FOR MANY THINGS

Author: Hannan van Rooij

words are good for many things.

for example, for formulating arguments.
for explaining the content of a table:

this
many
potatoes
are piled up
here.

words are good for listing names
and cells
and for telling what is going on
here, or on the other side of an ocean.

if you slowly zoom in on an image in a film (so that it is not necessarily even truly visible), this automatically captures the viewer's attention just like whispering into a microphone on a stage.
this is how a potato farmer swallows sounds.
he comes home smelling of black dust and earth,
of atomised ethylene, which preserves the product,
of blisters on the palms of his hands.

bright blue eyes peering out from under hats, watching you and thinking:
why all these questions? why on earth all those questions?

to find oneself on that side of the edge of normal reality
it is an art to board a boat in silence
with you not in the boat,

not the boat,
not the wave,
not the sea,
not the captain
not the rescue team or the loved ones
left waiting eagerly on the quay.
but the paddle
that someone else can use to cross.

in a way you have never done before
watching
and lying in a way you did not even know was possible,
within the reach of the punt.

the first step is often simply to act as if it has already begun

and that you have always
fit there
without a doubt
between the words.

INTRODUCING... HANNAN VAN ROOIJ

Hannan van Rooij (2001) is the poet in residence 2025/2026 at the UG. This year she graduates with a film about the potato in the Northern-Groninger landscape.



INTRODUCING... YVONNE VAN KOLLENBURG



Hello, nice to meet you! In August, I started working as a project manager at the Science Shop for Language, Culture, and Communication. In this role, I ensure that the Science Shop projects within the Faculty of Arts proceed according to plan. Next to that, I am also one of the editors of this magazine! I was already quite familiar with the Faculty, as I had studied Dutch there myself. Alongside my degree programme, I worked at Studium Generale, helped organize the Arts Festival as a student assistant, and completed an internship at Noordwoord. I also did two board years: at Literary Student Association Flanor and at Usva, the cultural student centre. Alongside all these work commitments, I enjoy spending my time reading, writing, going for walks, and drinking lots of coffee. I am very enthusiastic about the Science Shops, because I believe it's important for small-scale and non-profit organizations to be able to approach the university with their questions. This establishes a genuine connection between society and the university, enabling students to gain experience beyond university walls. So, if you have a burning question, feel free to contact us by email at tawi@rug.nl!



Author: Yvonne van Kollenburg

THE MYSTERY OF SAINT CECILIA

A quest to uncover the origins of a remarkable ecclesiastical relic

The Janning Museum in Nieuw-Schoonebeek, Drenthe, houses a mysterious ecclesiastical relic: a piece of church wainscoting measuring 2 metres high and 18 metres long, with beautifully decorated wooden figures and panels. No in-depth research had previously been carried out into the origins of this artwork until the Janning Museum brought this question to the Science Shop for Language, Culture, and Communication, and four undergraduate art history students set about to unravel this mystery.

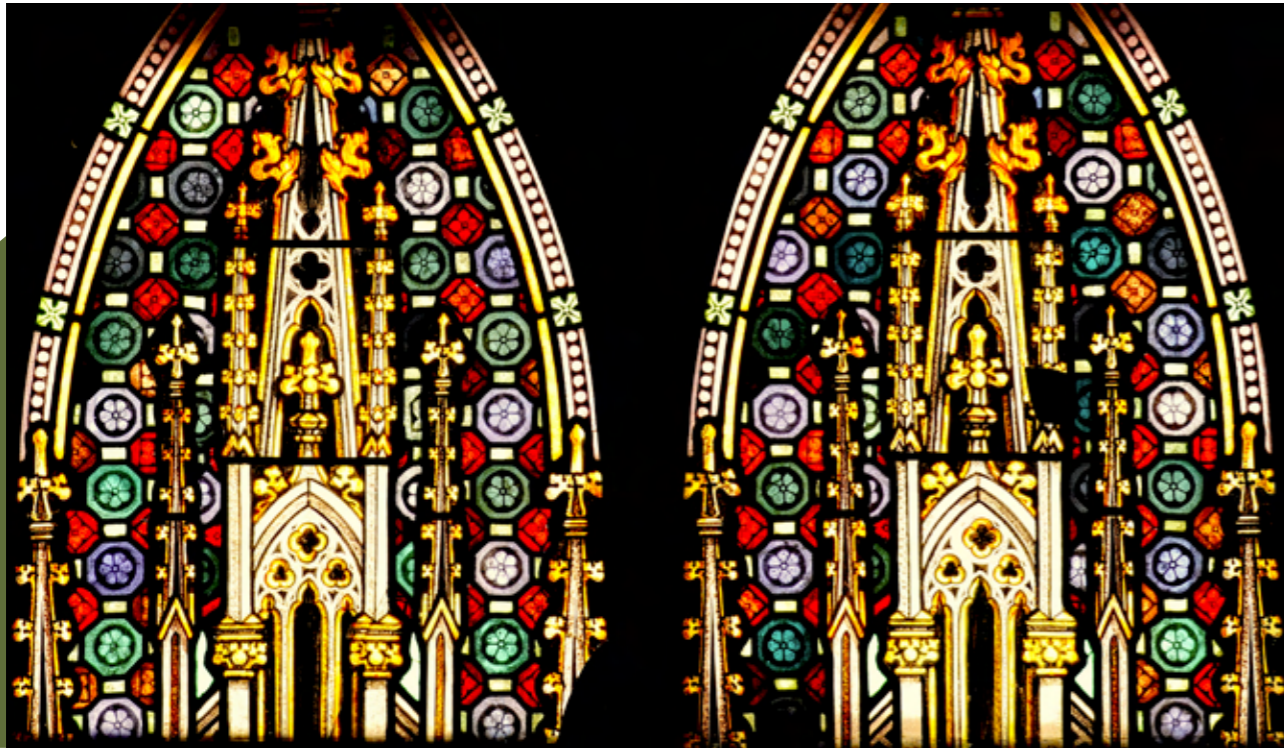
Since 2020, Nieuw-Schoonebeek in Drenthe has been home to a new museum: the Janning Museum, located in the former vicarage. The museum is named after Fr Janning (1914–1980), who was a clergyman and painter, as well as a fervent collector of ecclesiastical art. The centrepiece of the museum's collection is an extensively decorated piece of church wainscoting, measuring 2 metres high and 18 metres long. The item has an estimated value of more than a million euros. How did such a small museum come to have this gem? Fr Janning once bought it in the middle of the night, somewhere on the roadside, in what used to be East Germany.



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HOW DID SUCH A SMALL MUSEUM COME TO HAVE THIS GEM? FR JANNING ONCE BOUGHT IT IN THE MIDDLE OF THE NIGHT, SOMEWHERE ON THE ROADSIDE, IN WHAT USED TO BE EAST GERMANY.

Not much was known about the origins of the work. It was thought to have been created by artists from the school of Tilman Riemenschneider, one of the most famous woodcarvers of the early Renaissance. However, documentation to confirm this was lacking. Sofie Kuipers, Feyona Voerman, Caroline Roelfzema, and Klarissa Groen began their research by compiling an inventory of available information about the work. To this end, they entered into discussions with the Janning Museum's board of directors, which had previously undertaken its own search for the origins of the work, albeit without success. They also spoke with some of the museum's volunteers and a local historian. They heard many theories during these conversations, but the stories contradicted each other, and nearly all of the information was based on hearsay and speculation. The students decided to set aside everything they had heard and to start their research with a blank slate.

Where better to begin than with the wainscoting itself? As soon as the students saw the work for the first time, they noticed all sorts of things. For example, they thought that the artwork was arranged in the wrong order, that it included figures that had not been part of the original work, and that several different styles could be observed throughout the work. Based solely on a stylistic analysis, the researchers quickly arrived at the hypothesis that it was a 19th-century Neo-Gothic work, and not a 15th-century Gothic work, as had previously been assumed. This helped to show the students the value of the expertise they had acquired from their degree programme: 'Sometimes, you wonder just what it is that you're doing when you're writing all sorts of theoretical essays. It was only through this study that I realized just how much knowledge I'd actually gained.'



Another piece of the puzzle had to do with identifying the material used to make the panel. It proved to be made of walnut wood from the Harz region. Because the woodcarvers of that time often worked with local wood, this narrowed the scope of the students' search. After scouring countless obscure German websites, they came across the Church of St Nicholas in Langenstein. The old church stood in what used to be East-Germany, and because there had been no money for repairs, it was ultimately demolished in 1977 – the very year in which Fr Janning bought the panel. By tracing the location, they were also able to identify the likely creator of the panel: Gustav Kuntzsch (1848–1919). He was from the area, and he also did woodcarving for neighbouring churches. By comparing photographs of these works on the websites of those churches to the wainscoting in Nieuw-Schoonebeek, the students were able to confirm that his style corresponds to 'their' wainscoting.

In addition to solving the mystery of its origins, the students made all sorts of other discoveries. They created a detailed analysis of the work, identified the many figures, and learned that the work had been restored by the woodworker Taeke Bouma, an acquaintance of Fr Janning. That explained the different styles they had noticed at the start of their search. One of the most prominent figures in the panel is that of St Cecilia, portrayed with a harp. She is the patron saint of music, which suggests the purpose of the church wainscoting: the work had probably been

located in the rear of the church, behind the chancel, thus enhancing the acoustics. The students described all these findings in a text that could be placed in the museum.

This project was invaluable for the museum. With its limited budget and staffing, it would otherwise not have been possible to secure the expertise and personnel needed to conduct such a study. As observed by André Zwake, the Janning Museum's chair, 'In addition to their infectious enthusiasm, the students' knowledge of art history enabled them to identify the origins. By examining the style and expression of the figures, they were able to date the piece. As a board with no background in art, we would never have managed that.' It was a valuable experience for the students as well. They were highly motivated to make a difference for a small museum and even contribute their own insights to local art history.

And the project is not over. There are plans to travel to East Germany with museum staff members. They hope to use the archives there to confirm the findings of this project. In the meantime, new students are starting work at the Janning Museum to investigate other extraordinary relics. To be continued...

**AUTHOR:
KARIN REE
(WITH MARIT
NYGÅRD,
EDITOR)**

MODEL YOUR MONSTER

*When I was a child, Walt Disney's **The Jungle Book** was one of my favourite films. Mowgli, an adorable foundling boy, grows up in the Indian jungle, protected by endearing animals, such as Baloo the bear. Now that I am older and wiser, I can let you in on a secret: Rudyard Kipling's (1865–1936) book is better. Tenderness gives way to harshness and conflict. In the foreword to the Dutch translation, Midas Dekkers remarks that it reads like the Old Testament.*

I think the most moving transformation is that of Kaa, the python. In Disney's world, he is a villain, a monster like every snake in the Western tradition, a hypnotic seducer out to devour you whole. In Kipling's world, however, Kaa is a complex character, an ancient and wise creature who grows younger with every moult. Moody, headstrong, and vain, he is not easy to win over. For those who succeed, however (and Mowgli knows how), Kaa becomes the strongest and cleverest ally.

How did we come upon the topic of Kaa? My editor, Marit, and I compare the experiences of students working on their Science Shop projects to a voyage of discovery. They have no idea what they are getting themselves into. They clear a path through the jungle, navigating winding trails and encountering monsters on their way to unknown treasures.

Marit asks, 'Do you have an example from the past?' The jungle evokes a tropical atmosphere, which reminds me of Jarno Stoter's project (see the 2018 Annual Report). This Industrial Engineering student received an enquiry from the Fiji Islands. This archipelago in the South Pacific is facing a waste problem: tourists leave their broken-down polyester pleasure boats behind in the natural environment. I supervised this project, having absolutely no understanding of the infrastructure of the Fiji Islands. I would have been satisfied if Jarno had simply outlined

how this waste could be processed technically in the Netherlands. Separating the materials in the hull of the boat is difficult enough as it is. Jarno took a more proactive approach; he devised an innovative process to avoid such separation. Moreover, he phoned and emailed organizations and local businesses across Oceania until he found someone to carry out each part of the process. We were speechless.

In the Science Shops, students are relieved to know that they will be able to find their own way through the jungle of their projects, explore side paths, retrace their steps if things go wrong, and learn from the experience. Above all, they have the opportunity to apply the knowledge gained from their degree programmes and put it to good use, rather than letting it sink back into the depths of their memory once the exam is behind them. As a university, and as supervisors, we must take special care not to pave that exploratory path and install traffic lights and speed cameras along it. Planning, learning outcomes, rubrics, safeguards against all manner of possibilities: in education, regulation is becoming an end in itself. Preserve the jungle; let students discover and conquer their own Kaa. What appeared to be a monster proved to be a source of wisdom.



VEGAN BURGERS FOR NURSING HOMES?

Author: Thomas Wieringa

These days, a plant-based diet is not just for oat-milk-latte-drinking yuppies: more and more people are choosing to eat plant-based foods. A plant-based diet means avoiding animal products such as meat, fish, eggs, and milk. There are many benefits to a plant-based diet. It is good for the climate, as fewer greenhouse gases are emitted in the production of plant-based foods than in the production of animal-based foods. It also does not involve factory farming or animal suffering. Furthermore, there is evidence to suggest that it is better for your health, as it reduces the risk of certain conditions, such as cardiovascular disease.



The choice is yours?

Despite all the benefits, many people are not keen on plant-based foods. They have a negative view of vegans, or they assume that plant-based foods are more expensive than animal-based foods. After all, people are free to choose whether or not to follow a plant-based diet. But to what extent can someone living in a nursing home actually make this choice? Nursing-home residents have less freedom of choice regarding what they eat and drink than the general public, as they are dependent on the food provided by the nursing home.

Let's explore!

Little is known about how nursing-home residents view plant-based foods. Given that nursing-home residents also deserve to have a say in what they eat, Caring Doctors wanted to find out more about this. Caring Doctors is a foundation dedicated to promoting a more plant-based food system. They approached the Science Shop for Medicine and Public Health with the request to conduct research into factors that hinder and promote a more plant-based diet amongst nursing home residents.

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IF THERE ARE NO MAJOR DIFFERENCES BETWEEN PLANT-BASED AND NON-PLANT-BASED FOODS AND BEVERAGES, IT MIGHT BE EASIER FOR OLDER PEOPLE TO MAKE THE SWITCH.



What did we do?

Jelke van der Heide, a Master's student in the Developmental Psychology degree programme, started working on the request from Caring Doctors on behalf of the Science Shop in September 2025. As part of this study, he conducted surveys amongst residents and staff at eight nursing homes in Drenthe, Groningen, and Friesland. The questionnaire was ultimately completed by 39 residents and 22 staff members. The average age of the residents was 81, and the participating staff members included care workers, catering staff, and policy-makers. Both residents and staff were asked about the balance between plant-based and animal-based foods in the current menu, in the residents' current consumption, and in their preferred menu. In addition, both groups were asked what would help them to eat and drink more plant-based foods (if they wished to do so) and what is currently preventing them from doing so.

What did we learn?

The results show that the current range of plant-based foods available in nursing homes largely corresponds to the preferences of the residents. The question is therefore whether the residents and staff actually want any changes to the services on offer: it does not look like it. It is interesting to note that the estimates of how much plant-based food the residents eat do not match. According to the residents, they eat more plant-based foods than the staff members think they do. According to both groups, the 'barriers' to residents adopting a more plant-based diet are that animal-based foods taste better than plant-based foods, and that residents find it difficult to change the eating habits to which they are accustomed.

If we want older people in nursing homes to eat more plant-based foods, offering tastier plant-based meals would be a good place to start. Although one option might be to prepare the same dishes differently, it might also be worth adding some new dishes to the menu. Alternatively, they could prepare the same dishes as the meat dishes, but without the meat – without the dishes becoming boring or bland. If there are no major differences between plant-based and non-plant-based foods and beverages, it might be easier for older people to make the switch. According to staff, it might also help to provide more information about the benefits of a plant-based diet, both for our planet and for our health. Not all residents agree with this: only a small proportion of residents says that information would help them adopt a more plant-based diet.

There are thus options for making plant-based foods more appealing to nursing-home residents. At present, however, residents are generally satisfied with what is offered to them. Any changes of this kind should obviously be made in consultation with residents, and they must always be free to choose for themselves whether they do or do not wish to eat and drink more plant-based foods, just like anyone who does not live in a nursing home. For now, perhaps, we must simply wait until the current generation of oat-milk drinkers ends up in nursing homes. Then the demand for plant-based foods will increase automatically.

2025 IN QUOTES

Our partners share
their experiences

A student of the Science Shop for Education:

A primary school wanted to work on improving their language education. In this they were helped by five students who were connected to the school for their bachelor thesis. They collected insights through literature, interviews and analysis of lesson methods. Their work provided the school with concrete points of action, like practicing more frequently with less skillful readers. Additionally, the school team got a better overview on lesson methods that would suit the school well. For the students it was an intensive but valuable experience: "It was very interesting to be so involved with a question from the workfield. Because of it, the research becomes more meaningful."

Nadine Emmens, Lecturer Sociology, about a collaboration with the Science Shop Medicine and Public Health:

"Thanks to the Science Shop, students do not only gain knowledge about research, but are able to put this knowledge to use in society due to the research questions that come from the workfield to the Science Shops. This link to real-world practice is extremely valuable."

Lieselot Smilde, from Stichting Natuurbelang de Onlanden, collaborated in a project with six students Future Planet Innovation:

"I thought it was a very fun group to work with. I really noticed how they were struggling to reconcile their desire to be scientific with our questions about stories and a more regenerative approach. I noticed that struggle not only in them. The issues we address as a foundation require scientific knowledge; for example: what processes underpin more regenerative land use or a regenerative society. If you are self-aware and use that awareness to explore how things work, new stories emerge. I haven't quite made up my mind myself either (and I shouldn't be, because it's exactly what we want to explore)."

Ekko Smith, Municipality of Groningen, collaborated with Knowledge Centre Philosophy:

"I really liked to collaborate with the students. The research they delivered in a conceptual game gave us the possibility to use this within education (around diversity, inclusivity, anti-racism, history of slavery, societal issues, etc.). Within the project on the history of slavery, it offers opportunities for connection and dialogue."

Pepijn Sonneveld, Head of the Innovation & Development Department at SPOT and Programme Manager for CrossWise, about a project with four Career Minor students::

"From the perspective of the client this research has proven to be of high professional value. In the starting phase the students first analysed our broad and searching question with care and specified it, and subsequently translated it to a clear, methodically sound approach with concrete and directly applicable results for further development of CrossWise. The trajectory proves independentness, analytical thoroughness and the ability to bring direction to complexity, in which they did not only give answers, but also helped us specify our research question. We are grateful for this outcome and use the input actively in our further development, on which we would like to build with further student groups."

Author: Mariëtte Hingstman and Marij Veldman

HOW CAN WE GET EARLY SCHOOL LEAVERS BACK ON TRACK?

The Groningen-based *Back on Traxx* programme through the eyes of the youth and referring practitioners

Each year, thousands of young people leave the education system without a qualification, even though they are capable of more. It often starts with missing a few classes. After that, the barrier for going to school keeps getting higher and higher. In the statistics, they are then classified as 'early school leavers': youth under the age of 23 years who have left the education system without a basic qualification (a certificate from senior general secondary education, pre-university education, or Level-2 secondary vocational education). Without basic qualifications, their chances

of finding long-term employment and pursuing further education are reduced. It is therefore important to re-engage youth, who are often struggling with various issues. In the Netherlands, there are various programmes for early school leavers, often organized at the intersection of education and care. How do young people experience these programmes? What helps them get back on track?

Material for a Science Shop project

Based in Groningen, the Back on Traxx programme does not focus solely on education or employment, but is dedicated to the broad development of young people. It comprises a comprehensive approach with activities focused on mental and social development, healthy living, and career guidance. The programme lasts 12 weeks, and it is provided in groups of up to 12 young people. One key principle involves normalizing the full spectrum of emotions, including the less pleasant ones. There is a parallel programme for parents. Now that 13 groups have completed the programme, it is a good time to take stock.

Match with students

In collaboration with the Science Shop for Education, two Educational Science students, Welmoed Schuitmaker and Millie Dulleman, got to work. Welmoed focused on the experiences of former participants, and Millie focused on the experiences of referring practitioners (professionals working in education, for a local authority, or at a healthcare organization who refer young people to Back on Traxx). Through interviews, they assessed how these stakeholders perceived the programme's impact on the mental well-being and careers of the participants. They also asked what they thought was working well and where there was room for improvement.



ONE KEY PRINCIPLE INVOLVES NORMALIZING THE FULL SPECTRUM OF EMOTIONS, INCLUDING THE LESS PLEASANT ONES.

How the participants look back

Whereas the participants had previously struggled with issues such as melancholy, stress, and a lack of structure, they found it easier to cope with these issues once the programme had finished. Most of the nine former participants interviewed reported feeling more confident and positive, having a better understanding of their emotions, and feeling more socially connected. This also helped them get back on track: eight of them had returned to education, and four had also found a part-time or full-time job. All the participants cited the sense of belonging to a group as a strength, although they also found the setting quite daunting at first. "In the end, it's actually good to know that you're really not that special. All those things that are bothering you and so on, there are plenty of others who are struggling with them too." Most of the young people also recalled learning about what contributes to mental health and the sports activities as a positive experience. Several found it difficult to stand on their own feet after completing the programme. More aftercare could help maintain a sense of structure and promote good mental health.

How referring practitioners view Back on Traxx

The ten referring practitioners whom Millie interviewed for her research also cited the warm and supportive group dynamic as a key strength. They were also struck by the informal atmosphere and the diversity amongst the counsellors. According to them, this lowered the threshold

for youth who no longer felt at home in the mainstream education system. Upon completion of the programme, most of the referring practitioners observed an increase in self-awareness and self-confidence among the participants. One of them said about a young person: "She became more open. I could tell from her whole demeanour. So, rather than being a wallflower, it was more like 'hey, I'm here.' She was also able to be more straightforward with me, saying, 'Well, I want this, and I don't want that.'" Some referring practitioners did see room for improvement in terms of organization and communication. The need for more aftercare also emerged during several discussions with referring practitioners.

Looking back on the research project

Millie and Welmoed presented their research findings to the founder, colleagues from Back on Traxx, and a few of the interviewees. The findings were largely familiar, provided food for thought, and prompted further research. Both studies clearly highlighted the important role parents play in encouraging the youth to become active. The parents' perspective could provide a valuable addition to future research. The students also reflected on their own learning processes. For example, Welmoed had not often worked one-to-one with young people before. Given the potentially sensitive nature of the topics covered in this study, the interviews required thorough preparation, as well as flexibility. "In the end, I found the interviews by far the most enjoyable part of the project." The interviews clearly revealed the crucial importance of authenticity and honesty to creating a safe environment, which is exactly what Back on Traxx is all about.

INTRODUCING... SARAH VEENSTRA



Hi! My name is Sarah Veenstra and last year I joined the Science Shop for Language, Culture and Communication as a student assistant. I support Vincent and Yvonne with the Science Shop's projects. I also handle communication tasks and help edit the annual report. And, last but not least, looking after the plants is part of my role too. I am currently enjoying my Bachelor's degree in International Relations and International Organisations, where I focus on issues relating to politics, power and cooperation in an international context. During my studies, my interest has grown in how academic knowledge can be translated for a wider audience, particularly at a time when misinformation plays such a significant role. This issue becomes very tangible through my work at the Science Shop, as I experience first-hand how research is conducted and subsequently shared and applied in society. In my spare time, I enjoy reading and watching good films, and I'm trying to discover my inner artist during the painting course at Usva. I'm really looking forward to the coming period at the Science Shop and to all the new things I'll learn whilst working there!



Author: Karin Ree en Karin de Boer

THE DEVIL WEARS GORE-TEX

There is a lot of talk about PFAS. These toxic fluorine compounds are found in your frying pan, your raincoat, and perhaps even in your eggs and your blood. How big is this problem, and how can we solve it? The Huize Aarde Foundation is running a campaign known as 'Learning from PFAS', and it is asking the help of students from the Science Shops. We are learning about how PFAS can be replaced in textiles, their harmful effects on the immune system, and more.



IS THE CHEMICAL INDUSTRY LEARNING FROM ITS ENVIRONMENTAL RECORD? WE DOUBT IT. PFAS ARE AN OLD PROBLEM WITH A NEW DISGUISE

PFAS are forever

Is the chemical industry learning from its environmental record? We doubt it. PFAS are an old problem with a new disguise. The 1970s and 1980s were dominated by chlorinated chemicals: DDT, PCB, CFC, and a whole host of other memorable acronyms. They were used to make useful products with a long lifespan, and that was their downfall: they are not easily broken down (persistent), and they accumulate in the environment and in the body. So, what did the industry do to eliminate persistent chlorinated compounds? It replaced chlorine with the similar element fluorine, which is in the same group in the Mendeleev periodic table, one place higher, and with an even stronger binding affinity in organic compounds, making it even more persistent. Makes sense, right? Now we are left with these fluorinated compounds, including PFAS (per- and polyfluoroalkyl substances). We also refer to them as 'forever chemicals', because they are virtually non-biodegradable.

Eliminating PFAS is no small challenge. The group comprises more than 10,000 substances with thousands of applications. How can we ensure that the phase-out and replacement of PFAS does not simply lead to 'more of the same' and cause even more problems?

This question is at the heart of the 'Learning from PFAS' campaign run by the Huize Aarde Foundation. Several students from the Beta Science Shop contributed.

Fluo poncho or eco-friendly cycling trousers

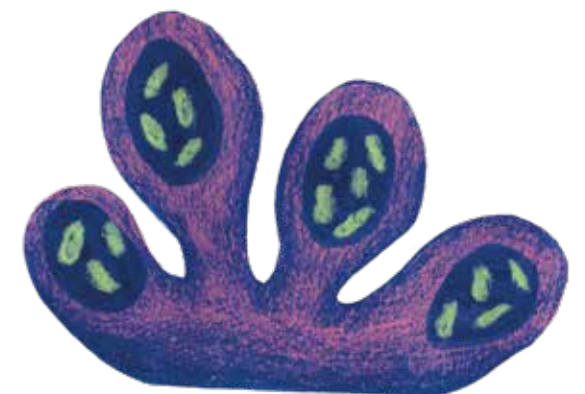
Sara Khong, a student at the FSE Honours College, investigated alternatives to PFAS in textile coatings. The lion's share of PFAS use (35%) occurs in the textile sector. The fabrics are water-repellent, fire-resistant, and durable. This combination is what makes them unique. They are also resistant to grease, blood, and dirt. For private consumers, they are used primarily for outdoor clothing, such as ponchos and

PFAS and shots

What risks do PFAS pose to children's immune systems? This question was investigated by Kaziwa de Valk, a student of the FSE Honours College. Children's immune systems are vulnerable because they are still developing. Although babies do receive antibodies at birth and through breast milk, they must otherwise build up their own immunity through vaccinations and exposure to infections. Kaziwa reviewed the literature to investigate the effects of PFAS on the efficacy of vaccines included in the National Immunization Programme. For all vaccinations, there is plausible to strong evidence of a reduced immune response due to PFAS in the blood. In addition to posing risks to individual children, this also threatens the group protection.

cycling shorts. Professional clothing containing PFAS is used in such settings as operating theatres, the fire service, and the armed forces.

What are the alternatives to using PFAS in textiles? In her literature review, Sara Khong evaluated a large number of alternatives. She had to conclude, however, that these alternatives rarely match the combination



of functional properties offered by PFAS. This makes it difficult to replace in professional clothing, which is subject to strict standards. There are more options for outdoor clothing.

A good score in terms of environmental and health performance often comes at the expense of durability. The 'more of the same' option consists of fluoropolymers with shorter chains, which may degrade more quickly in the environment than current PFAS. Because it is less durable, however, much more of it is required, resulting in a corresponding level of environmental contamination with persistent fluorinated degradation products.

Options involving bio-based materials are different and more challenging. Products made from beeswax (or other waxes) have been in use for some time. Despite recent developments, these products still perform poorly in terms of durability and dirt resistance. One promising development is the creation of products based on modified stearic acid, in which the fabric is pre-treated with enzymes to improve adhesion. These products are not yet ready for the market, however, and they require further development and evaluation. It will thus be a while yet before we can cycle through the rain using fluorine-free and bio-based products.

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MOREOVER, THERE IS A RISK THAT ALTERNATIVES WILL CAUSE PROBLEMS AGAIN – THESE ARE KNOWN AS ‘REGRETTABLE SUBSTITUTIONS’.

The broad framework

The urgency of phasing out PFAS is clear. Initiatives to this end are being taken within the EU. It is also clear that phase-out and substitution are complex processes. They involve a large number of substances and applications, some of which are essential. Moreover, there is a risk that alternatives will cause problems again – these are known as 'regrettable substitutions'. During her placement in Science, Business, and Policy, Didi Ubels investigated ways in which policy could prevent and regulate regrettable substitutions. Here are some of her conclusions: greater clarity is needed regarding which PFAS and alternatives are being used; regulation should be group-oriented and international, and it should take into account the entire product life cycle (and not just the use phase). This could help prevent 'forever chemicals' from becoming 'forever problems'.

These articles and others from the Huize Aarde 'Learning from PFAS' campaign have been compiled in a special issue of *Milieu*, the journal of the Vereniging voor Milieuprofessionals (Association of Environmental Professionals), February 2026.



Supercomputer

**AUTHOR:
VINCENT
HAZELHOFF**

There I was. Locked in my new car. 'Use the Smart Key to start the car,' the interactive touchscreen instructed me in a patronizing tone. 'I have the key here, in my ha-and', I barked back, somewhat desperately. But the key did not work. The battery was dead. And so the car did not start. No road trip for this young hatchback owner. It reminded me of my grandfather, who spent the last few years of his life locked in a bitter battle with Eneco's customer-service team because he did not understand his smart thermostat – or, more accurately, he did not want to understand it. Had I, too, become one of those grumps who no longer want to go along with the drive for innovation?

We have a thing for innovation. If something is new, we usually assume that it is better. It is deeply ingrained in our belief in progress, but it makes us – sorry, reader – a bit simplistic. Managers have a tendency to treat innovation as a magic word for solving complex problems. The Schoof government was a champion at that. Innovation was said to be the quintessential solution to the nitrogen crisis. Because it was not clear exactly what those innovations were, the word 'innovation' became a euphemism for 'we don't really know either.'

Universities are a breeding ground for innovative concepts, ideas, and products, but even we can sometimes fall into the trap of technological tunnel vision. I think that one good example is the AI Factory, for which the UG is planning heavy investments. I still do not truly understand exactly what is going to happen there. A 'supercomputer' is on the way (what on earth is that?) and, according to the TNO website, organizations will be collaborating more closely to speed up innovation and boost the economic impact. 'The consortium partners will also develop robust frameworks, tools, guidelines, and standards for large-scale, transparent, and reliable AI development.' This seems to me just fancy words for an office space.

It is obviously still just a dream, and it requires some embellishment, but as much as €60 million is being set aside for such an initiative under the Nij Begun Economic Agenda. The government has made these funds available to compensate for earthquake damage. For everyone in Groningen. How will the farmers in Borgercompagnie or the elderly Turkish residents in Veendam benefit from such an AI factory? Are we not fixating on AI as a 'powerful driver of innovation'? As a society, are we really keen on accelerating innovation, when fewer and fewer people are able to keep up with it?

As a university, we should ask ourselves this question more often. Innovation and progress are not one and the same thing. Where there is technical innovation, we often take a step backwards socially. What represents a boost in efficiency for one group creates greater distance for the other. Could it work the other way around? For us to invest in social innovation? Two years ago, the municipality of Pekela conducted an experiment. Instead of setting up all sorts of expensive schemes, the social services team visited people receiving social benefit payments. A personal chat at the kitchen table, a free bike or moped, sometimes that was all it took to restore residents' confidence. Thanks to the initiative, more than 200 residents were able to return to work. Sometimes you do not need a supercomputer, just a few down-to-earth people from Groningen who are not afraid of a little hard work.

Did I ever get out of that car? Absolutely – once I replaced the battery, the whole car was working again and my on-board computer and I were back on speaking terms. For the time being.

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**AS A SOCIETY,
ARE WE REALLY
KEEN ON
ACCELERATING
INNOVATION,
WHEN FEWER
AND FEWER
PEOPLE ARE
ABLE TO KEEP
UP WITH IT?**

DOES SUSTAINABLE EQUAL EXPENSIVE?

Authors: Nils Elzinga and Francine Nijp



“
**FOR SOME PEOPLE, IT IS EASY TO PORTRAY
 SUSTAINABILITY AS ‘EXPENSIVE’ OR ‘AN EXTRA’
 – BUT IS THAT FAIR?**”

In recent years, the government has made substantial cuts in higher education funding. For the University of Groningen as well, this has required significant cost-cutting measures. For some people, it is easy to portray sustainability as ‘expensive’ or ‘an extra’ – but is that fair? The Green Office conducted a cost-benefit analysis to find out what sustainability policies actually achieve for the University.

From raw data to financial analysis

There was no shortage of data for compiling the analysis. Each year, the Green Office prepares the *Annual Sustainability Report* for the UG. It also collects the data to be entered for the University in the GreenMetric World University Rankings (a global sustainability ranking system). This includes data on energy and water consumption, waste, CO₂ emissions, and the UG’s properties. Assessing the costs and benefits, however, required a proper interpretation of the available data. For the financial analysis, the Green Office advertised a placement vacancy at the Faculty of Economics and Business Administration.

Pavel Petrenko, who was pursuing a Master’s degree in Sustainable Finance at the time, helped the Green Office prepare the analysis. He focused on the following measurable topics: gas, electricity, food, water, waste, business travel, and laboratories. In his analysis, Pavel drew on the latest developments in European sustainability reporting standards (ESRS) and corporate social responsibility (CSR). Based on

the analysis, Pavel calculated that the implementation of sustainable policy measures had saved around €18 million between 2020 and 2024 (see Figure 1).

Sustainability as a core value

Charting the financial impact of sustainability measures strengthens the Green Office’s position when proposing new sustainability policies amidst budget cuts. It also helps to dispel the notion that ‘sustainable equals expensive’. Although this financial insight is extremely valuable, it does not tell the whole story. An organization must also adopt sustainability measures based on the conviction that it is contributing to a better world and a healthy planet. This could include environmental impact – for example, by creating more space for biodiversity, or social impact (such as raising awareness about sustainability during Sustainability Week). Not all of these efforts can be translated into measurable targets, but that does not make them any less important. The Green Office remains fully committed to this cause.

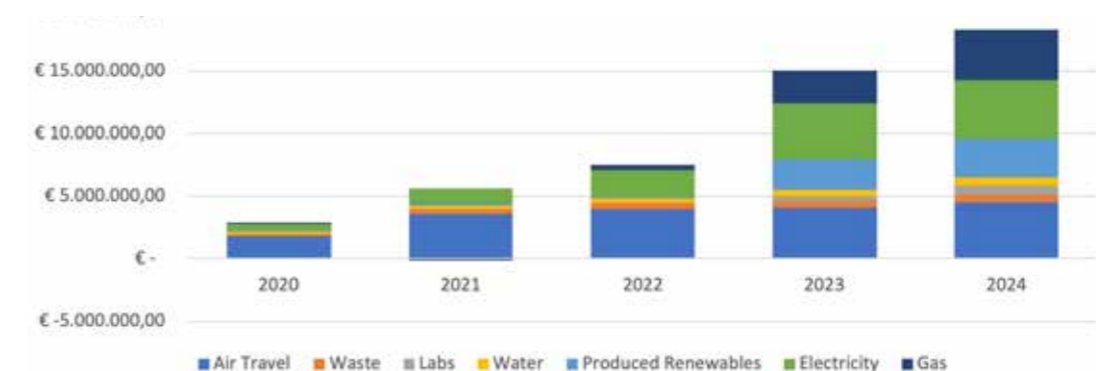


Figure 1: UG savings relative to the reference year (2019)



Photo: Green Garden (initiative of the Green Ambassadors, with support from the Green Office)

Examples of savings

Gas/electricity

The Sustainability Roadmap for 2021–2026 states two clear objectives: making the Zernike campus gas-free by 2026 and achieving annual electricity savings of 2%. When the energy crisis began in 2021, the Green Office came up with solutions, including the introduction of 'comfort periods' (heating buildings only when occupancy is at its highest), turning the heating down from 21 to 19 degrees, and not switching on the air conditioning unless the temperature reached 28 degrees (instead of 26 degrees).

Business travel

Travel is an integral part of university life (for example, for partnerships, international research, and conferences). As of 1 January 2023, the policy no longer permits short-haul flights – covering distances of up to 800 km or taking less than 9 hours by train. Staff members now travel by train for this purpose or consider options for virtual participation. At the same time, however, long-haul flights offer greater potential for savings. To this end, the Green Office has analysed the flight data for all faculties. Based on this analysis, a 'CO₂ cap' (upper limit) has been set for each faculty since 2024. For example, existing policy prescribes a 30% reduction in emissions by 2026, compared to the reference year (2019).

Food

Many people are aware that plant-based and vegetarian food is more sustainable than meat. But is it less expensive? The Green Office has analysed this for the University. Under the current contract, the vegetarian option is the cheapest, translating into potential savings of more than €50,000 a year. Since October 2023, the Board of the University has opted to make vegetarian catering the standard. Although meat-based catering is still being ordered, the number of vegetarian orders is increasing.

Green Labs

Making laboratories more sustainable leads to more efficient use of equipment, chemicals, water, and energy. At the UG, we use the Laboratory Efficiency Accreditation Framework (LEAF). Within this software, laboratories must check certain criteria and specify the actions they will take, enabling them to be awarded a bronze, silver, or gold certificate. By 2025, a total of 166 laboratories have been accredited: 77 with LEAF Silver and 89 with LEAF Bronze. The software tool also calculates the savings, both financial and in terms of CO₂ equivalents. For example, by 2025, the efforts of UG Green Labs will have yielded savings of €1,439,000 and 1,721 tonnes of CO₂ equivalents.



ALTHOUGH THIS FINANCIAL INSIGHT IS EXTREMELY VALUABLE, IT DOES NOT TELL THE WHOLE STORY. AN ORGANIZATION MUST ALSO ADOPT SUSTAINABILITY MEASURES BASED ON THE CONVICTION THAT IT IS CONTRIBUTING TO A BETTER WORLD AND A HEALTHY PLANET.

Waste

Sorting waste more effectively at the source can reduce the volume of residual waste. In addition to being more sustainable by allowing for more recycling, it can reduce costs by decreasing the total weight of residual waste. The installation of waste collection points has improved the recycling rate from 54% to 67%.

Water

Although water is not as great an expense for the University (as compared to energy, for example), it is becoming increasingly important to realize savings in this area. This is mainly due to the risk of future water shortages. For example, based on the Sustainability Roadmap, the frequency of flushing to prevent Legionella has been reduced. In addition, rainwater is increasingly being used for flushing toilets. Compared with 2019, water consumption has been reduced by 40%, resulting in savings of more than €600,000 over the years.



INTRODUCING... KIM DUMORÉ



My name is Kim Dumoré, an illustrative designer who brings stories to life through colour, texture and humour. I had the pleasure of working at the Science Shops for a number of years, and this collaboration beautifully brings together my passions for design, science and social issues.

For this edition, I chose to portray the Science Shops as unconventional explorers of the university. They are the pioneers who pave the way between science and society, rooted in academia but always looking outwards.

Website: kimdumore.nl
Instagram: @kim_dumore

Author: An de Vries

SPOTLIGHT ON IT ISSUES

The world is becoming increasingly digital. Sooner or later, everyone will encounter questions about technology. Some of these questions are of a legal nature. In such cases, the students at the IT Law Service Centre are here to help.



If you are facing unclear privacy policies, online orders that have never been delivered, or have doubts about posting photos on a website, then you are encountering IT law. The IT Law Service Centre offers accessible legal assistance and advice on issues relating to IT law (such as privacy, copyright, and intellectual property). These services are provided by students of IT Law. As a small start-up, you can also contact us for free legal advice. IT law is becoming increasingly important. Organizations and public authorities are increasingly handling personal data and working with digital systems (such as AI tools), thus creating a need for robust security measures and clear rules to protect privacy and prevent misuse.

A bit lighter for the writer

For example, a local sports club would like to post some photos capturing the atmosphere on their website. A volunteer took some lovely photos during a tournament. The club is eager to put the photos online, but is starting to have second thoughts: is it really okay to publish that one perfect photo without permission, when it was taken by another photographer? The club is seeking advice from the IT Law Service Centre.

In this case, the students in the Law Service Centre are looking into copyright law. The photographer is automatically the copyright holder of the photograph and has the right to decide whether the photo will or will not be made public. If the club wishes to post the photo on its website, this constitutes publication and requires consent. The Service Centre therefore recommends asking the photographer. In this way, the IT Law Service Centre brings various issues to light – in some cases, quite literally.

Do you have a question? Send an email to info@it-rechtswinkel.nl with a clear description of your question or problem. You will receive legal advice in your inbox within two weeks. If you would like to know more, just visit www.it-rechtswinkel.nl. We would be happy to help. Together, we will make sure you find the right solution.



The editors of this magazine: Yvonne van Kollenburg, Sarah Veenstra, Karin Ree, Marit Nygård and Vincent Hazelhoff

This year in numbers

Can you produce transparent wood? How can we make school curricula more sustainable? What do we actually mean by the term 'Mienskip'? What is the state of social cohesion in the Zeeheldenbuurt neighbourhood? Once again this year, many residents, organisations and groups of people turned to us for help. Together with **709 students**, we tackled **298 different research questions**, resulting in **113 open-access publications**. Our students and project leaders were welcome guests on stage, as we had the opportunity to talk about our research at a total of **59 presentations and events**. Here's to a new year full of curiosity.

On behalf of the editorial team: Sarah Veenstra, Vincent Hazelhoff, Karin Ree, Yvonne van Kollenburg and Marit Nygård

INTRODUCING... EEFJE KLEIJWEG



For the past two years, I have been responsible for the design of the Annual Report for the Science Shops. This is the third edition I have had the pleasure of working on, and it's a real treat every time. This is largely thanks to the brilliant illustrators who give each edition its own unique character. I have been working as a Graphic Designer and DTP specialist for various companies for 18 years already. For instance, I often contribute to the campaigns and exhibitions of Forum Groningen, handle the design for various specialist magazines, and develop identities for local initiatives such as Lutje Lokaal, WIJS or Talent in de Regio (Hanze). So it's very varied! That's what makes my work so enjoyable: as a freelancer, you're your own boss when it comes to your time, but you also choose who you work with. And that gives me a lot of energy!
Website: www.eefjekleijweg.nl

2025 PUBLICATIONS & PRESENTATIONS

BÈTA

Publications

- Stan Bieslot, Catherine van Eijk, Astrid Hooiveld, Nadia Krikke, Eric Palstra, Matthijs Visser. **Sustainably Red: Integrating Buah Merah into West Papua's Agroforestry.** *Future Planet Innovation.* Januari 2025.
- Jasper Bakker, Nina de Haes, Merel Hofman, Daniek Jansen, Aleksandar Jovanovic, Bianca Slab. **Dog faeces: from waste to worth?** *Future Planet Innovation.* Januari 2025.
- Jasmijn Bakker, David Bebensee, Iris Berkel, Zofia Grzybowska, Floris Mennema, Lennart Schaeffer. **De Onlanden: analysis from human-nature relationships.** *Future Planet Innovation.* Januari 2025.
- Mart Boon, Emil van Es, Ria Kaldhone, Ema Kolářová, Sofia Slobodchikova, Joep Verstappe. **Tips for sustainable sips: An analysis of reusable cups.** *Future Planet Innovation.* Januari 2025.
- Clara Garcia Gomez. **Protective Layer in Solar Panel Modules with Sustainable Building Materials: The Potential of the Solar-Assisted Chemical Brushing Technique for Transparent Wood Production.** *Industrial Engineering & Management.* Mei 2025.
- Henk Mulder. **Science Shops: Bridging Universities and Communities.** *Blogpost, ECSA Working Group Series, European Citizen Science Association.* Mei 2025.
- Teodor Borcan, Andie Brady, Karolina Józwiak, Anne Most, Marlene Schroers. **Gaps in Citizen Science.** *Honours College.* Juni 2025.
- Bianca Emanuelli, Philippa von der Heydt, Kim Hochschild, Veda Kayana, Ashley Monteiro, Ajda Usen. **Healthy Groningen: A Longer, Happier Life for All.** *Honours College.* Juni 2025.
- Merle Bialas, Sara Khong, Carla-Elena Sava, Zeynep Ece Yildirim, Liv Zenglein. **Wellbeing board game.** *Honours College.* Juni 2025.
- Jacky van den Burg, Kamilla Zita Hajdu, Daniel Koudriachov, Lucija Lubina, Aileen Santoso, Halla Stengård. **Mushroom walks: East Groningen.** *Honours College.* Juni 2025.
- Peter Baan, Matei Benesxu, Sara Olona Kewitz, Andreea Maria Pop, Noah Schoen. **Age is Just a Number - But Which One?** *Honours College.* Juni 2025.
- Kaziwa de Valk. **Invloed van Per- en Polyfluoralkylstoffen op Vaccinatierespons bij Kinderen: Een Toxicologisch Overzicht.** *Honours College.* Juli 2025.
- Sara Khong. **Bio-based Alternatives for PFAS in Textiles.** *Honours College.* Juli 2025.
- Wiegert Kaal. **Developing Educational Materials on Night Ecology: Integrating Child and Adult Worldviews.** *Education & Communication.* Juli 2025.
- Verena Deddens. **Doelgroepenonderzoek Meet-o-Theek in Leek.** *Education & Communication.* Juli 2025.
- Wendy Bollen. **How sustainable is the international trade in tropical stony corals?** *Education & Communication.* Juli 2025.
- Alice Hunt. **Oxygen depletion in German Baltic Sea coastal waters; occurrence and consequences.** *Science, Business & Policy.* Juli 2025.
- Maja Masarikova. **Tackling terrestrial and freshwater Invasive Alien Species threats in Curaçao.** *Science, Business & Policy.* Juli 2025.
- Melany Veentjer. **Een gezonde leefomgeving ter stimulering van het beweeggedrag in Friesland.** *Science, Business & Policy.* Juni 2025.
- Elizabeth van der Zeijden-Los. **Bridging theory and practice: applying the Theory of Change to educational material design in the Night Garden project.** *Education & Communication.* Augustus 2025.
- Nikolaos Papagrigoriou. **From Data to Decisions: Bridging Research and Innovation in Acute Care.** *Science, Business & Policy.* Augustus 2025.
- Sean Sexton. **Sustainability in Clinical Decision Making of Diabetes Treatment Choice.** *Science, Business & Policy.* Augustus 2025.
- Jasper Wietses. **Monitoren van soortenbescherming en organiseren van natuurinclusieve bouwprojecten natuurinclusieve bouwprojecten.** *Science, Business & Policy.* Augustus 2025.
- Elisa Coccoresse. **The costs of science for the protection of the High Seas Understanding financial needs for monitoring future High Seas Marine Protected Areas.** *Marine Biology.* Oktober 2025.
- Luke Corrigan. **Primary production in the Dutch Wadden Sea under different eutrophication scenarios and applications to food web modelling.** *Energy and Environmental Sciences.* Oktober 2025.
- Evan Beernink, Celine Bos, Pieter van Essen, Alma Momberg, Axel Moorlag, Jasper Smit & Anouk Teelken. **Keepers of Curaçao: Designing an implementation plan towards stewardship through citizen science.** *December 2025.*
- Brend Bosma, Evie Groenewegen, Ian Bergmeester, Teun Bezooijen, Tijmen Lourens, Leah McGrath, Maria Aleneiny. **LuNa: Advisory report.** *Science, Business & Policy.* December 2025.

Presentations

- Niels Alberts-Visscher. **Hoe betrek je burgers actief bij participatieprocessen.** *Energy, Tech & Tunes.* Januari 2025.
- Noah van de Vegte, Lola Veenema, Lieke Veenstra. **Nocturnal Moths.** *First Year Symposium Biology.* Januari 2025.
- Eline Gerrits, Suzanne Trompetter, Nynke Yntema. **Plan Bee: How can human land management practices boost pollinator populations in the Netherlands?** *First Year Symposium Biology.* Januari 2025.
- Lucas Koopmans, Roan Penseel, Tom Suurd. **Healthy sweeteners? Three alternatives to pure sucrose sweeteners.** *First Year Symposium Biology.* Januari 2025.
- Henk Mulder. **Off the beaten track in academia. GLV IDUN symposium 2025: STEM: Academia vs Industry, Groningen.** *Februari 2025.*

- Niels Alberts-Visscher, Karin de Boer, Han van der Strate. **The Public Use of Health Apps and Wearables.** *Honours College Winterschool.* Maart 2025.
- Henk Mulder. **Science Shops. ECSA WG Citizen Science and Universities.** *Maart 2025.*
- Niels Alberts-Visscher. **Meet-o-Theek: meetinstrumenten te leen.** *Landelijke Reizende DNA-lab dag.* April 2025.
- Anouk Marsman, Niels Alberts-Visscher. **Pop-up Meet-o-Theek.** *Nationaal Bibliotheken Congres.* Juni 2025.
- Karin de Boer. **Characteristics of Plastic Pollution in Land and Water and Its Adverse Ecological Impacts.** *COMSTECH OIC World Environment Day: Beat the Plastic Pollution.* Juni 2025.
- Karin de Boer. **"Trash Talk" kunst & gesprek Duurzaamheid.** *Festival Hongerige Wolf.* Juli 2025.
- Kaziwa De Valk. **The Impact of Per- and Polyfluoralkyl substances on children's vaccine responses.** *VVM Millieucafé: Leren van PFAS.* September 2025.
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- Anouk Marsman, Niels Alberts-Visscher. **CurioUs? Meet-o-theek: Samen Meten, Samen Leren, Samen Maken.** *Kennismaken: Nationale Citizen Science Expo.* Oktober 2025.
- Anouk Marsman, Niels Alberts-Visscher. **Connecting Worlds - Creating knowledge together.** *Kennismaken: Nationale Citizen Science Expo.* Oktober 2025.
- Henk Mulder & Yorick Karseboom. **Connecting society, students, and researchers: The Groningen Science Shop Method.** *Open Science Festival 2025, Groningen.* Oktober 2025.
- Anouk Marsman, Johan Haasjes, Gerda Vrugteman, Niels Alberts-Visscher. **Burgerwetenschap en onze Bibliotheken.** *December 2025.*

SCIENCE SHOP LANGUAGE, CULTURE & COMMUNICATION

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- Linde Huistede, Twan Huiskens, Jason de Lima, Martijn Weening, Sil Hardeman, Thijs van Eijndhoven, Tessa Pino. **Onderzoek naar recreatief drugsgebruik onder Groningse universitaire studenten en studenten hbo.** *Januari 2025.*
- Jarno Welp, Meteo Paulec, Paula Teerink Ruiz, Daniela Miculesanu, Cezara Stefania Radu, Luis Joao. **Kielzog Research Project.** *Januari 2025.*
- Alexandra Has. **Autonomía y Lenguaje: Mujeres migrantes latinoamericanas en los Países Bajos.** *Januari 2025.*
- Lorena Andrada Sava, Justin van Tunen, Age de Haan, Denisa Beleaga. **Rhetorics Lab report: Erik Bleumink Fellowship.** *Februari 2025.*
- Jenke Veenstra, Nico Signorini, Alek Borowiak, Joppe Kok, Matei Holban. **Research Report SPOT Groningen: Metavenu's and the future stage.** *Maart 2025.*
- Tom Kraeft. **Man vs. Machine Revisited: A Comparative Discourse Analysis of Chess Engines in the 1990s and modern Large Language Models in creative industries.** *April 2025.*
- Bauke Both, Rick Veenstra, Marijn Prakke. **Bidbook Nationaal Busmuseum.** *April 2025.*
- Thijs Manning, Amber Jansen. **Bidbook Museum Westerwolde.** *April 2025.*
- Lotte Heerink. **Leeswijzer: De instructies.** *Stichting Senia.* Mei 2025.
- Bregje Dirkje ten Boom. **Leeswijzer: Een Soort Eelt.** *Stichting Senia.* Mei 2025.
- Demian Vos. **Leeswijzer: Ik kom hier nog op terug.** *Stichting Senia.* Mei 2025.
- Fyona Geleynse. **Leeswijzer: Gebied 19.** *Stichting Senia.* Mei 2025.
- Welmoed Ouwensloot. **Leeswijzer: In het oog.** *Stichting Senia.* Mei 2025.
- Mariam Jamureli. **Leeswijzer: Day.** *Stichting Senia.* Mei 2025.
- Sara Najeeb Raja. **Leeswijzer: Yellow.** *Stichting Senia.* Mei 2025.
- Fay Tippi Sterken. **Leeswijzer: The Grass is Singing.** *Stichting Senia.* Mei 2025.
- Sandra Besa Longmore. **Leeswijzer: Victory City.** *Stichting Senia.* Mei 2025.
- Lou Kapsimali. **Leeswijzer: Cuddy.** *Stichting Senia.* Mei 2025.
- Simone Schouren. **Leeswijzer: Blessings.** *Stichting Senia.* Mei 2025.
- Gabriela Biskupska. **Leeswijzer: Reise Nach Laredo.** *Stichting Senia.* Mei 2025.
- Sara Najeeb Raja. **Leeswijzer: Marschlande.** *Stichting Senia.* Mei 2025.
- Afke Marij van der Groot, Evi Mannee, Marta Nascimento, Nefeli Noula, Silvana Jacob, Weronika Ziemann. **Strategic Plan: The Bake Shop: Re-think strategy to ensure good positioning and secure funds.** *Juni 2025.*
- Hans Najar, Lorenzo Jachnow, Luca Giordanelli, Aron Samuel Knopp, Theo Thomas. **Strategic Marketing Plan: Podium34.** *Juni 2025.*
- Merel Wieringa, Iris Buruma, Britt Jansen, Robin Flipse. **Stichting (On)Gestoord: Advisory Report.** *Juni 2025.*
- Inez Dekker, Dora Domokos, Nicky Stel, Jim in het Veld. **Onderling Sterk – provincie Groningen: Strategic Advisory Report.** *Juni 2025.*
- Christine Immenga, Mark van Beek, Nicoleta Chiper, Sam Kints. **GROENN Advisory Report: Media Studies – Social Lab.** *Juni 2025.*
- Guusje Dijkhuis, Chantal Spoelstra, Carmen Kroeze, Jeske Voogd, Silke Brouwers. **Buurtloket Groningen: Final Advisory Report.** *Juni 2025.*
- Ilse Steenkist, Vincent Hazelhoff. **Samen leven, samen onderzoeken.** *Juni 2025.*
- Feyona Voerman, Sofie Kuipers, Klarissa Groen, Caroline Roelfzema. **Policy report: the wainscotting at Museum Janning.** *Juni 2025.*
- Ana Soares Pereira. **Scholierenleeswijzer The Kite Runner.** *i.s.m. Scholierenacademie.* September 2025.
- Lotte Knol. **Scholierenleeswijzer The Hitchhiker's Guide to the Galaxy.** *i.s.m. Scholierenacademie.* September 2025.
- Sanne Otter. **Scholierenleeswijzer The Handmaid's Tale.** *i.s.m. Scholierenacademie.* September 2025.
- Evie Bosch. **Scholierenleeswijzer Fangirl.** *i.s.m. Scholierenacademie.* September 2025.
- Andreia Araújo Moreira. **Scholierenleeswijzer The Strange Case of Dr Jekyll and Mr Hyde.** *i.s.m. Scholierenacademie.* September 2025.
- Charlotte Reed. **Scholierenleeswijzer Call me by your Name.** *i.s.m. Scholierenacademie.* September 2025.

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- Cezara Radu, Daniela Miculesanu, Jarno Welp, Luis Joao, Meteo Paulec, Paula Teerink. **Metavenues: digitale trends in de podiumkunst.** Eindpresentatie Career Minor. Januari 2025.
- Posterpresentatie QID, Januari 2025.
- Vincent Hazelhoff. **Letteren Live, talkshow over het project Samen leven, samen onderzoeken.** Januari 2025.
- Vincent Hazelhoff & Yvonne van Kollenburg. **Project Management 101.** Werkcollege Career Minor. November 2025.
- Omar Alzughayyar, Esmeralda Compeer, Stefan Dorde, Sam Hemsted, August Klarenbeek, Katharina Kriz, Tijn Niezing. **Kunst&Cultuur Kwartet.** December 2025.
- Andrea Arduin, Lance Huang, Beibei Ji, Vera Terwisscha van Scheltinga, Youssef Abulkassem, Simon van Steenberg. **Kunst & Keuze.** December 2025.
- Imke Alma, Willemijn van Calker, Natalia Gayoso, Ashley Rees, Lisanne van der Haag. **Connecting the Threads: An Argumentation Map of the Debate on Mandatory Artistic Collaboration.** December 2025.
- Hannah Kritzing, Merle Hoebe, Dirk Jutte, Lucy Bevan, Dara Looij, Bodil van der Voorn, Andra-Julia Crihana. **Argumentative Perspectives on Obligatory Collaboration Between Governmental Organisations and the Cultural Sector.** December 2025.
- Vincent Hazelhoff. **Podcast RUG&Co: RUG & Gemeente Groningen: 'Over het samenbrengen van verschillende belevingswerelden.** December 2025.

GREEN OFFICE

Publications

- Nils Elzinga, Francine Nijp, Dick Jager. **Jaarverslag duurzaamheid 2024 + Factsheet.** Gepubliceerd op de RUG-website duurzaamheid.
- Francine Nijp. **Buiten/aard leven.** RUG-website.
- Francine Nijp. **RUG op schema om ambitie van 30% CO2-reductie van vliegvluchten te halen.** RUG-website.
- Francine Nijp. **Green Office neemt deel aan internationale GreenMetric Workshop in Nice.** RUG-website.
- Francine Nijp. **Centrale positie in organisatie voor Duurzaamheid (Green Office).** RUG-website.
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- Francine Nijp. **RUG 6e duurzaamste universiteit in wereldwijde ranking.** RUG-website.
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- Cairns, A. **Seaweed is cooler than you think!** Green Office Blog.
- Nicola, R. **Where does your food come from? Local vs. Imported: What's greener?.** Green Office Blog.
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- Kaldhone, R. **My Relationship With Statiegeld.** Green Office Blog.

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- Noa Eleveld, Nijp F.W., & Elzinga, N. **Factsheet werknemersmobiliteit.** Gepubliceerd op de RUG-website duurzaamheid.
- Noa Eleveld, Nijp, F.W., & Elzinga, N. **Rapportage vliegdata 2024.** Gepubliceerd op de RUG-website duurzaamheid.

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- Dick Jager, Noa Eleveld, Nils Elzinga, Francine Nijp & Marijke Nieborg. **Duurzaamheidscoördinatorenendag.** HOC. Februari 2025.
- Elzinga, N. **Plastic monostreams in lab environments – National Biosafety Day.** RUG. Maart 2025.
- Elzinga, N. **ENLIGHT presentatie.** Online. April 2025.
- Verena Erich. **Make a Difference Career Event [Workshop].** HOC. Mei 2025.
- Extern, & Francine Nijp. **Opening expositie biodiversiteit.** UB. Mei 2025.
- Extern, & Dick Jager. **Climate Exam.** Mei 2025.
- Elzinga, N. **Sustainability Roadmap input session Green Labs.** Energy Academy Europe. Mei 2025.
- Elzinga, N. **Cost benefit analysis Green Office bij KNAW.** Trippenhuys, Amsterdam. Juni 2025.
- Meerke Romeijnders. **SDG Symposium Student Session.** HOC. Juni 2025.
- Noa Eleveld. **Zaadbommen maken [Workshop].** Universiteitsmuseum, Groningen. September 2025.
- Elzinga, N. **Designing interventions in sustainability communication [Guest lecture].** Oude Boteringestraat 34, Groningen, Nederland. September 2025.
- Meerke Romeijnders. **Waste Collection Activity Zpannend Zernike [Activity].** Oktober 2025.
- Casper van der Kooi. **Nocturnes [Film en nagesprek].** Forum, Groningen. Oktober 2025.
- Jaap Tielbeke. **Keynote.** Academiegebouw, Groningen. Oktober 2025.
- Elzinga, N. **Community meeting Green Labs.** Linneausborg, Groningen. Oktober 2025.
- Björn Hoops. **Nausicaa of the Valley of the Wind [Film en introductie].** Forum, Groningen. Oktober 2025.
- Elzinga, N., & Jager, D. **Great Green Pubquiz.** Toeter, Groningen. Oktober 2025.
- Gita Maas. **Soundtrack of the plastic age [Muziek en lezing].** Forum, Groningen. Oktober 2025.
- Elzinga, N. **ATU Ireland green labs annual webinar.** Online. Oktober 2025.
- Verena Erich. **Let's GRO stadswandeling.** Binnenstad, Groningen, Nederland. November 2025.
- Elzinga, N. **UG smoke free @ GSNLT conference.** Puddingfabriek, Groningen. Oktober 2025.

KNOWLEDGE CENTER PHILOSOFY

Publications

- Karseboom, Y. **Community-University Engagement & Praxis. Philosophy Outside the Walls: teaching students and society the value of applied philosophy.** Bristol University Press. Januari 2025.

- Pauly, M. (Ed.). **Philosophical Tools for Climate Change.** University of Groningen Press. April 2025.
- Twan Tromp. **Leeswijzer: Taal geven aan muziek: een nieuwe harmonieleer.** Jos Kessels. Senia. Mei 2025.
- Suze van Schaik. **Leeswijzer: Bergson (serie 'Profielen').** Hein van Dongen. Senia. Mei 2025.
- Marijke Bakker. **Leeswijzer: Een kleine filosofie van de grote emoties.** Ignaas Devisch. Senia. Mei 2025.
- Tobias Postma. **Leeswijzer: Frankfurter Schule (elementaire deeltjes 82).** Thijs Lijster. Senia. Mei 2025.
- Lieve van Wilpe. **Leeswijzer: Trots.** Filosofie van een emotie. Martha Claeys. Senia. Mei 2025.
- Iris Blaauw. **Leeswijzer: Essay Maand van de Filosofie.** Tommy Wieringa. Senia. Mei 2025.

Presentations

- Yorick Karseboom. **Philosophical Thinking.** Hanze Hogeschool, Academie van Bouwkunst. Januari 2025.
- Groningse Nacht van de Filosofie, Vrijdag 11 april 2025.
- Marc Pauly. **Filosofisch gereedschap voor complottheorieën.** Philos Café, Groningen. April 2025.
- Yorick Karseboom. **Philosophy Outside the Walls.** C2U Expo, Edmonton Canada. Mei 2025.
- Yorick Karseboom. **AI & Science Communication.** NEWS, Utrecht. Juni 2025.
- Barbara de Grouw, Menno Kuipers, Fardau de Boer, Renske de Boer. **Excursie door de Onlanden.** Juni 2025.
- Jimmy de Groot, Truike Grootveld, Bartosz Ilejko, Marc Poortenga, Stan Velthuis. **Presentatie Cloud 86.** Juni 2025.
- Marc Pauly. **Filosofisch gereedschap voor complottheorieën.** Humanistisch Verbond, Groningen. September 2025.
- Marc Pauly. **Wat moeten we beschermen, als we de natuur willen beschermen, en waarom?.** Nascholing leraren filosofie, Groningen. November 2025.

SCIENCE SHOP EDUCATION

Publications

- Beijgaard, S. C. A. **Effectief taal- en met name woordenschatonderwijs in het basisonderwijs met de methodes Taal-jacht en Taal Actief 5.** Rijksuniversiteit Groningen.
- Dulleman, M. **Succesfactoren en knelpunten bij doorverwijzing naar het Back on Traxx-traject: Een kwalitatief onderzoek onder verwijzers.** Rijksuniversiteit Groningen.
- Haanstra, F. **Geïntegreerd taalonderwijs in het basisonderwijs: interpretaties in taalmethodes en de ervaren realiteit door leerkrachten.** Rijksuniversiteit Groningen.
- IJsseldijk, M. C. J. **Op weg naar tekstbegrip binnen effectief taalonderwijs: Een kwalitatief onderzoek naar factoren die effectief tekstbegripsonderwijs ondersteunen en de perceptie van leerkrachten binnen twee taalmethodes.** Rijksuniversiteit Groningen.
- Janssen, E. P. J. M. **Effectief taalonderwijs in de basisschool: Een analyse van Taal actief en Blink.** Rijksuniversiteit Groningen.
- Manuhutu, B. **Een systematische literatuurreview over de effecten van spelmethodes gericht op sociaal-emotionele vaardigheden.** Rijksuniversiteit Groningen.

- Scheper, L. **Een empirisch onderzoek naar ervaringen van onderwijsprofessionals met betrekking tot peer-tutorlezen in het primair onderwijs.** Rijksuniversiteit Groningen.
- Schuiten, M. **Enhancing Reading Comprehension Support in Upper Primary Grades.** Rijksuniversiteit Groningen.
- Schuitmaker, W. **De ervaren impact van het VSV-traject 'Back on Traxx' op mentaal welzijn en (her) participatie in studie en/of werk: Een kwalitatief onderzoek onder voormalig deelnemers.** Rijksuniversiteit Groningen.
- Zijlstra, G. **De potentie van het Spel van de Week voor de ontwikkeling van sociale relaties: een literatuurstudie.** Rijksuniversiteit Groningen.

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- Veldman, M.A. & Hingstman, M. **Wetenschap binnen handbereik: Samenwerking tussen universiteit en praktijk in de Wetenschapswinkel Onderwijs.** Onderwijs Research Dagen 2025. Juni 2025.

SCIENCE SHOP MEDICINE & PUBLIC HEALTH

Publications

- Folkertsma I & Wieringa, T. **Wensen, zorgen en houdingen ten aanzien van de overgang naar een meer plantaardig menu binnen een Nederlands verpleeghuis.** Zenodo. Juli 2025.

Presentations

- Thomas Wieringa. **The Science Shop for Medicine and Public Health.** PPI Horizons: European Perspectives on Public and Patient Involvement 2025. Galway, Ireland. April 2025.

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Presentations

- **Bezoek gemeenteraad WIJS Stad.** Januari 2025.
- **Presentatie WIJS Symposium Werkplaats Sociaal Domein.** Maart 2025.
- **10 jaar WIJS.** Forum Groningen. Maart 2025.
- **Bezoek Onderwijsberaad aan WIJS.** April 2025.
- **Presentatie Boundary Crossing.** Kennisdag City Deal Kennis Maken, Delft. Juni 2025.
- **Eindsymposium 'Hoe studenten het verschil maken.'** Forum Groningen. Juli 2025.

GENERAL

- **Uitwisseling Wetenschapswinkels Wageningen-Groningen.** Maart 2025.

