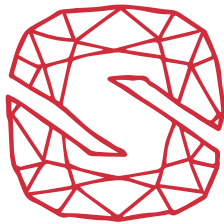
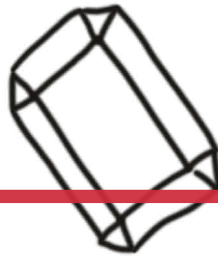
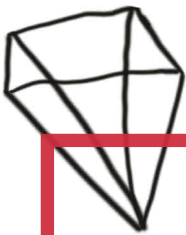
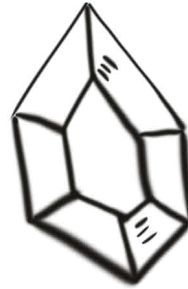
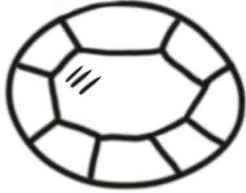


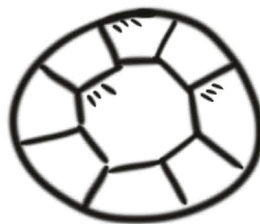
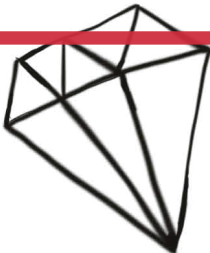
S T U D Y   A S S O C I A T I O N

# G E W I S

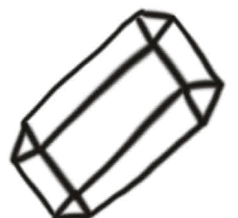


## UPREMUM

VOL 55 NO 1



THE  
RUBY  
EDITION





# EDITORIAL

Welcome to the second volume of the 55th year of the *Supremum* magazine, and to the second gemstone on our list of three!

**EDITOR IN CHIEF** Leon Vreling

The ruby is a nice red gemstone, which is very often used in jewelry. Rubies signify passion, protection, and wealth. Furthermore, it has become a symbol of love and commitment. When we see this red gemstone, one association of course immediately comes to mind which we all love very much, and that has the same vibrant red signature colour.

We won't be an association of Mathematics and Computer Science students if I didn't take this opportunity to also talk about the programming language *Ruby*. As you might know, it is an interpreted, high-level language, with an emphasis on productivity and simplicity. In my five years of studying here in Eindhoven, however, I have never got to experience it. Looking at it now, I think I'm happy with just sticking to Python instead of adding yet one more programming language in my ever-expanding toolkit.

In this ruby-themed edition, you can read some of the favourite recipes of our GEWIS members, and you can get to know the first year committees a bit better. The last letter and song written by GELIMBO is included, and there is even a special guest that wrote an article about one of our beloved board members. The magazine will naturally not be complete without the infima, of which you can find a total of six pages.

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# CHAIR'S NOTE

## TURNING YOUR RELATIONSHIP INTO A (GRAPH) PROBLEM

**A**s chair of GEWIS I'm currently not following any courses. However, my mind still is amazed by fun computer science fantasies. Hence, I'd like to take you along in this Chair's Note on a graph theory journey. The holiday season sounds like a fun moment, off from study and work, in order to celebrate with family. But how do you manage that when you have multiple families or occasions to attend with a limited number of holidays? And what if there are also siblings in the picture with relationships, or grandparents, nieces, nephews, etc. A brunch on Easter Sunday with the whole family might already pose a problem, if only one person has a celebration with their family-in-law on the same day. Of course, you could try to negotiate with your partner, to not spend time with your family-in-law. However, to ensure the peace and love in the relationship, I present to you a concept to ensure that these holidays can be celebrated with everyone present, as long as you are able to apply some graph theory.

TEXT Wietske de Bondt

To turn this into a graph problem, we first need to define what our vertices and edges are. Let's say you celebrate a certain holiday with your grandparents, parents, and siblings. This single celebration can be represented by a vertex in a graph. Let's call this vertex A. Additionally, your grandparents celebrate the same holiday with their other child and their children. This single celebration can also be represented by a vertex in a graph. Let's call this vertex B. In this case, there should be an edge between vertex A and vertex B because your grandparents are part of both celebrations. As another example, you could have a partner who celebrates this holiday with their family. This celebration is then again, another vertex (vertex C) in the graph. With an edge between vertex A and vertex C, representing that one or more attendees of celebration A should also attend celebration C.

The question which now arises is if it is possible to arrange the celebrations on two days (e.g. Easter Sunday and Easter Monday), such that everyone can attend all the celebrations they are invited to and stay happy. In our given example, we can say family A should celebrate on Easter Sunday. However, this immediately means that family B and family C must celebrate on Easter Monday, in order to let everyone still be happy. This example case can simply be figured

out. However, imagine there are hundreds of families, all interconnected by means of edges (and relationships). Then this can not simply be done by clear reasoning. Fortunately, we can see this as a 2-colorability graph problem. Yellow for example represents celebrating on Easter Monday, while blue represents celebrating on Easter Sunday. The 2-coloring problem statement is then the following: 'If all vertices in the graph can be colored with only a possibility of two colors, such that no two neighboring vertices have the same color, everyone can happily celebrate the holiday with their families.'

When looking at this problem during Christmas, when also Christmas Eve is a possible celebration day, the problem could be changed to a 3-colorability problem. Since there are three possible dates of celebrating (a.k.a. coloring).

All in all, once you're able to construct this graph, and run a 2-colorability solving algorithm on it (e.g. using a BFS) you will never have any problems with the holiday season. Also, for all the single readers among us: if you ever have seen the absence of your relation as a problem, do not worry, at least you do not have to deal with this other (graph) problem. ;)

# ENGINEERING DOCTORATE BEING A PAID STUDENT

**E**ngineering Doctorate (EngD) is a relatively unknown but highly valuable program that is offered by many universities, including our own. To enroll in an EngD program, one must have completed a master's degree and it is sometimes referred to as a "post-master's" program. Unlike a master's student who pays tuition fees, an EngD student is compensated as they receive a salary for their work. This offers the best of both worlds for an EngD student as they receive the perks of being a student and the advantages of being an employee.

TEXT Laura Kuntze

Currently, I am halfway through an EngD program in the field of Data Science. The EngD Data Science program is part of the Mathematics and Computer Science (M&CS) department at our university and is supported by TU/e. However, in practice, I work for JADS in Den Bosch, a leading data science institute. This allows me to benefit from both the resources and support of the university, as well as the practical experience and industry connections of JADS.

The program is designed to not only focus on the technical aspects of data science but also on personal development. This includes important skills such as presenting, networking, leadership, and working with different cultures. The program is highly international, with over thirty students from various backgrounds and countries, and I am one of only four Dutch students. Working in such a diverse environment has been a valuable experience, as I have learned not only from my colleagues, their working styles, and cultures, but also from myself and the Dutch culture. For example, I have learned that Dutch people, including myself, value efficiency and punctuality, which has challenged me to be more flexible and creative in my approach.

The program is also multidisciplinary, with students coming from a range of backgrounds, including Mathematics, Computer Science, Finance, and AI. During my first year in the program, I worked on small projects for three different companies, namely

Naturalis, NXP and DLL, as part of a multidisciplinary team. This allowed me to gain hands-on experience and apply the technical knowledge I had acquired through the program's modules, such as visualization and data mining.

This year, I will be working on my graduation project for the entire year, which is a major part of the EngD program. Every EngD student is assigned a project within a company, and in my case, that company is Diagnostiek voor U (DvU), a small healthcare company in Eindhoven. My goal is to bring value to the company by using their data in new and innovative ways.

In conclusion, the EngD Data Science program at our university offers students a unique and valuable opportunity to not only deepen their technical knowledge and skills in data science, but also to develop as individuals. The international and multidisciplinary environment of the program provides students with opportunities to learn from others and from themselves, and the program's focus on personal development helps students to become well-rounded and successful professionals in their careers.



# BEING A GRADUATE OF IAM IS A SOURCE OF PRIDE

**W**hat constitutes a great academic programme? The Master Industrial and Applied Mathematics (IAM) programme won the 2022 INFORMS UPS George D. Smith prize, thus being the first programme outside North America to ever win this prize. IAM is built around unique concepts that distinguish the programme from other leading programmes around the globe. I have successfully shared my conviction of this with the global community on Operations Research. I hope that by reaching the end of this article, you will also share my view that being a graduate of IAM is a source of pride.

TEXT Maria Vlasiou

With over 12,500 members from around the globe, INFORMS is the leading international association for professionals in Operations Research, Analytics, Management Science, Economics, Behavioural Science, Statistics, Artificial Intelligence, Data Science, Applied Mathematics, and other relevant fields. That's a mouthful to say, and perhaps even an eyesore to see on print. Perhaps the shortest description is that INFORMS is the global association for anything Operations Research related. INFORMS recognised IAM as the world-leading academic programme in Operations Research, bestowing to the programme the 2022 INFORMS UPS George D. Smith prize.

IAM promises to teach you how to "contribute to unravelling the major questions of both today and tomorrow, with solutions that have an impact." This statement can easily sound like a vacuous tagline. Yet, the programme delivers. My strong conviction that IAM is an impactful programme is what motivated me to nominate IAM for the INFORMS UPS George D. Smith prize.

## THE PRIZE

Named in honour of the late UPS Chief Executive Officer – a champion of Operations Research at a leading Fortune 500 corporation – the prize is created in the spirit of strengthening ties between industry and the schools of higher education that graduate young practitioners of Operations Research.

It is awarded for the past 10 years to an academic department or programme for effective and innovative preparation of students to be good practitioners of Operations Research or Analytics. These students go on to fill positions in industry and government – jobs that are essential to the goal of Operations Research and Analytics to help people make better decisions that save lives, save money, and solve problems.

IAM is among few select programmes globally. The first three winners were the University of Michigan, the Naval Postgraduate School, and MIT, all located in the USA. In fact, IAM is the first programme outside North America to ever win this prize. The award committee in their citation recognises that *"... IAM/ promotes an individualized educational experience while ensuring a high level of technical, communication, and industrial skills."*



## THE FABRIC OF IAM

IAM has some unique concepts, which are hugely impressive. I have found it rather easy to convince the international community that IAM and TU/e are exceptional, but I seem to struggle to enthuse our own community and spell out what makes IAM such a fantastic programme. We are perhaps too used in excellence to recall what makes our programme innovative.

Part of our excellence comprises characteristics shared by any elite programme. We have truly outstanding staff, who are active researchers. Excellence in education goes hand-in-hand with excellence in research. We have a strong tradition in Operations Research; the main algorithm that makes your route planner work, widely known as Dijkstra's algorithm, is designed by one of the first professors of our department, Edsger Dijkstra. IAM offers students personal attention. Internships and final theses are always closely supervised individual efforts. Students have a personal mentor who serves as a guide and sounding board.



Another part of our story has to do with the lucky accident of being at the right place. We benefit from structures that exist nationally and internationally. As a European university, our students have many opportunities to go for an international double degree or spend a semester abroad, and receive administrative and financial support through the Erasmus Mundus programme of the EU. Mastermath is a source of national pride. There exists no other country that offers graduate education on a collaborative national level. Within Mathematics in the Netherlands, collaboration is extensive. In addition to Mastermath, national graduate schools offer PhD-level courses. Yet, the prize was given to IAM and not to every EU or Dutch university participating in Erasmus Mundus or Mastermath. What makes IAM unique are three further key characteristics.

First, IAM offers an individual study programme. The obligatory components of the programme are the Professional Portfolio course and the final thesis. Anything else can be avoided, as even the core courses allow for a selection. The freedom to shape your future is a rare feature. So much freedom comes with risks: students could become lost among all choices or make illogical combinations; perhaps we could see degrees with significantly different study loads. Let us also not forget the logistical nightmare of scheduling courses for a cohort when all students could be following different paths. IAM, though, avoids most pitfalls. Mentors work closely with students to help shape a programme that aligns with their interests and strengths. IAM offers sample profiles that give guidance on how to navigate all these choices. Regarding scheduling, what can I say, we excel in it!

“ IAM adds value both to our graduates and to the local society ”

Another characteristic is our focus on impact, as our tagline also says. We actualise this with fostering close ties to industrial and societal partners. Part of our activities with these partners can be found also in other programmes. Internships are common, as is industrial involvement in final projects. IAM, though, goes a step further. We involve third parties into our own curriculum. Rather than being a nice "plus one", society outside academia and industry are part of our identity and help us run the programme. Should they (inexplicably) refuse to engage with IAM, we would have to restructure our courses. For example, Modelling Week demands that every year a fresh batch of current, urgent societal and industrial problems are presented to students. IAM does not face the problem seen elsewhere of having to update an outdated programme. (In fact, some of us will mumble with frustration that we seem to be updating our programme too often for comfort – even though we know that this discomfort is what keeps IAM a cutting-edge programme.)

Last, the Professional Portfolio course is a unique concept. The course is set up to prepare future professionals. At the end of the course, graduates have at least one research project to show, links and personal contacts with different companies, full information

on the various directions in the programme or studies abroad, contacts with alumni, and a few workshops on soft skills. The course embodies the spirit of this award, by strengthening ties between academia and industry and fully preparing the future practitioners. No other programme takes an active role in building a network for its graduates.

I am inordinately proud of the recognition IAM received and of having convinced an impressive international committee and the largest Operations Research organisation in the world of our excellence. We have an awesome programme, where in my view, the leadership of the Programme Director, Dr. Alessandro Di Bucchianico, has been instrumental. I hope that by reaching the end of this article, you now share my view that being a graduate of IAM is a source of pride.



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*Maria Vlasiov, head of the IAM prize nomination, Elena Gerstmann, Executive Director INFORMS, Andrea Fuster, Deputy Programme Director Mathematics, Alessandro Di Bucchianico, Programme Director Mathematics, Edwin van den Heuvel, Dean of the department of Mathematics and Computer Science at TU/e, Ranganath Nuggehalli, Principal Scientist UPS USA.*



**FYC 23-1 DEBUGKING**

# FYC 23-1: DEBUGKING

*For code to work, there may not be any bugs in it. Therefore, debugging is one of the most important aspects of writing code. Now luckily, we from FYC23-01 are the kings and queens of debugging. For this reason, we decided to merge these two aspects, creating our name DeBugKing.*

TEXT FYC 23-1 DeBugKing

Over the past 6 months, we have made a name for ourselves within GEWIS. From attending activities and borrels to being the first FYC to have organized an activity this year! Apart from these occasions, we are also often present at GEWIS for lunch or to study and hang out together in between lectures. We have also become very close friends with FYC23-00 50/50. Even though there is a bit of a rivalry between our FYCs, we hang out with them a lot.

However, our story begins at the FLUP weekend organized by GEWIS. Here, we all started getting to know each other and had a great time playing games and partying together. Sadly, after the FLUP weekend, we had to actually study, because, in the end, that is what we are at university for. But thankfully, we then found each other again to study together and help each other, but also just to hang out when studying became too un motivating. When GEWIS organized the FYC information meeting, we all listened to the fun stories of previous FYCs and got very enthusiastic. There, nine of us were put in a group, and we got to know more about what it means to be an FYC.

A few days later, another member joined us. Now we were a group of 10 computer science students (2 of us doing a double bachelor with mathematics), and we had our 0th meeting during a lunch break in MetaForum. Our FYC was officially formed, so we divided the roles within our committee.

When Q1 was coming to an end, we started thinking about organizing an activity in Q2. After talking to Lucy about options for when we could host this activity,

we decided to go with something small but cozy. We came up with having a movie night in the GEWIS room, so now we had to pick a movie. Since our activity was right before the Christmas break and our chair had never seen the classic: Home Alone before, we decided to watch that movie. The day of our movie night was filled with preparing and having fun. We went to get bean bags from Wervingsdagen and another study association, we went to buy our snacks and chocolate milk, and of course, install the beamer for the movie. Around 5 pm we ordered pizza and ate at GEWIS. Afterward, people started walking in and taking their seats. We had a very fun night and we got lots of compliments about how fun and cozy it was.

A few weeks after the Christmas holiday, our mascot Willy was brassed by 50/50. The day after, we got a brassbrief stating that we had to organize a dinner for both our FYCs at one of our members' place. We started organizing and planning this, but a few days later, we brassed their mascot Noot and got to send them a brassbrief as well. Since we liked the idea of doing something together with 50/50, we challenged them to organize a pub quiz for us, which they had to host on the night of our dinner. 17 of all 19 members were present, and we had a great time together, even with a shot of a Cypriot drink. That night, however, the trains turned out to have a major problem, so many of our members could not get home anymore. We didn't let that ruin our fun and managed to arrange a place to sleep for everyone.

Now, enough about our experiences of the past half year. Let's introduce our members.



Let's start off with Inge Schermer, our chair. Inge is very responsible and really acts like the mother of our group. She doesn't drink very

often, which is something we like to joke about, but secretly we all love how responsible she is!

Second, is our treasurer, Lizzy (Elisavet) Papaconstantinou. Lizzy is the only non-dutch member of our FYC, but we are making sure that she is familiar with all our Dutch traditions. Every week, we pick a Dutch sentence which is the sentence of the week. She has to learn this sentence, and we of course, also explain to her the meaning. The sentence of the week is always on the theme of something we are doing that week, so Lizzy usually manages to memorize the sentence pretty well!

Then, onto our secretary, Ciska de Greef. As we are only an FYC, we do not get a whole lot of mail, but we are very happy that Ciska manages any mail we get for us. Ciska of course also helps with other stuff that needs to happen in our FYC, like creating our logo. Most of all, Ciska is always in for a fun time, like at borrels or parties. Ciska manages her studies very well and is also always in to help others out or just have some fun at GEWIS.

The next member I want to introduce is Floris Bruin, our point master. As everyone probably knows, there is a competition between this year's FYCs. We can earn points by attending borrels and activities, but also for internal activities and passing our courses. Floris manages our points and makes sure Lucy knows everything we have done and deserve points for.

In our FYC, we also have a vice chair, Lucas van Honk. This role is luckily not needed very often, but Lucas created and now manages our beautiful website. That is besides, of course, helping Inge and all other members with their tasks when needed. Lucas often joins us at

GEWIS to study or hang out and whenever he can, he is at borrels and other activities.

Kevin Braam is our internal affairs officer (or Jason manager). Kevin is also very active in attending borrels and activities, as well as playing video games at GEWIS. Kevin is the youngest in our FYC, but he is always in for a borrel or party.

Then, our brass officer, Tjeh Chou. As mentioned before, we have a mascot, just like all other FYCs. Keeping our mascot safe is a task for all members of the FYC, but when our mascot is brassed or when we brass another mascot, then Tjeh is responsible for the brassbrievien we receive and need to write. Tjeh has to manage these brassbrievien and let us know what our punishment will be.

Next up we have Jason Fu, who is our snack manager. Since we used to have a tenth member, Jason has only been our snack manager for a few weeks. Jason acts the most irresponsibly out of all people in our FYC, so we often call him the child of our group. Jason is also the person who loses his belongings most often and we all try to look after him and make sure he doesn't forget anything.

Lastly, Kim van Alphen is the socials manager from DeBugKing. Kim is responsible for our Instagram and other social platforms. Whenever we do something fun, Kim makes an Instagram post or story about it, to keep our fans and followers informed of our whereabouts. However recently, since we have all been busy with studying, there haven't been many posts. Once our study takes up a bit less of our time, we hope to see more activity on Instagram again.

If you want to know more, you can of course always come to talk to us at GEWIS or visit our website [www.debugking.nl](http://www.debugking.nl). If you want to see pictures of what we are up to, make sure to follow our Instagram @fyc\_debugking.

*Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via [inf.gewis.nl](http://inf.gewis.nl).*

**Celine:** "De kerk is net als een cantus, ze zeggen ook welke bladzijde je moet hebben!"

**Robin:** "Denk jij ooit helder?"

**Tessa:** "Ja, op xtc"

**Gijs de M. nadat hij op de BAPC zijn mueslireep in zijn energydrink met jenever stopt:** "Dis nie best"

**Sven M.:** "GEWIS is gewoon seksueel! Euh nee seksistisch."

**Thomas B:** "Als je een seksrobot niet mag doen, mag je ook geen hond of kat hebben."

**Lucy:** "Ik ben niet brak. Ik heb toen overgegeven, maar net ook."

**Robin:** "Jij bent de reden dat ik alcoholist ben."

**Victor:** "Ik ben alleen gay voor Pim"

**Max:** "People also buy 'Live, Love, Love'-shit, so why wouldn't they buy it with really funny infima."

**Praeses Gieling:** "Als het leven uitzichtloos lijkt, ga dan naar het dak..... want daar is het uitzicht prima!"

**Leon:** "Sanne, er moeten nog een paar infima bij, zeg eens iets doms!"

**Liselotte over Amy:** "Heeft zij echt niet gedronken?!"

**Liselotte:** "Ik wilde iets moeilijks zeggen maar kon niks bedenken"

**Wietske:** "Wat zit er in de Strohcome... O wacht laat maar."

**Lucy:** "Jelte, hou je van wintersport?"

**Jelte:** "Nee, ik kan niet schaatsen"

*\*Bas and Janne making an exercise about a metric space called K.\**

**Bas:** "Das lullig, dus K kan zich niet in Amerika bevinden."

**Janne:** "?"

**Bas:** "Want daar gebruiken ze niet het metric system"

**Tessa:** "Kennen jullie die kinderserie met die wijze boom?"

**Willem:** "De fabeltjeskrant!"

**Wouter v. d. H.:** "Mooie auto, ik ben zwaarder."

*\*Tijdens de brainstorm over het thema van het sjaarzenfeest\**

**Kim:** "Misschien kunnen we iets met een kleur doen"

**Daan:** "Ja leuk! Dan doen we bijvoorbeeld golden shower als thema"

**Wietske:** "Ik ben dan niet eens ongesteld, ik ga dan echt niet huilen."

**Wietske:** "Kent iemand een toko die telefoons repareert?"

**Roy:** "Hizmet."

*\*Lucy over Inter-Actief\**

**Lucy:** "Bram? of Bart? Dat is echt m'n type!"

**Victor:** "Nee dat is het niet, mansplainen is ....."

**Robin:** "Bartjan, wat is een fust in het Belgisch?"

*\*Wietske over iemand die voor de faculteit werkt\**

**Wietske:** "HIJ KORFBALT, HIJ KORFBALT, IK GA ZO HARD MET HEM BONDEN!!"

**Aimee tegen Sanne:** "Je gaat een sugardaddy nemen!"

**Sanne:** "Okeeee..."

**Ollie:** "Wow, is dit hoe Tinder eruit ziet als je matches hebt?"

**Leon V.:** "Ik zag gisteren een supercoole powerbank! Het was een heupfles, zo een waar je alcohol in doet."

**Wouter v. H.:** "Maar het was ook een power bank?"

**Leon V.:** "Nee, dat niet."

**Sven bij Ichtus:** "Hebben ze hier een bijbel liggen?"

**Roy:** "Nou toevallig was ik vandaag tijdens mijn eeuwenlange SOG op de Wikipedia pagina van de Benelux..."

**Victor tegen Tessa:** "Je bent mooi zoals je bent... Maar mooier met krullen."

**Bartjan:** "Noa gaat haar noten verstoppen"

**Sanne:** "Ik heb zelfs chocolademelk gemaakt met chocolade en chocolademelk!"

**Sabine:** "Maar, huh, waarom? Je had al chocolademelk dus?"

**Sanne:** "....."

**Noa:** "Lotte en Jelte, naar een andere kamer nu! Jullie moeten even afkoelen want zometeen kunnen jullie niet meer door één deur!"

**Sanne:** "Dat is niet erg in mijn huis, want er zitten in elke kamer toch minstens twee deuren"

**Lotte:** "Oooh dat is een rijsttafel.. Ik dacht dat een rijsttafel gewoon rijst op een tafel was"

**Jelte:** "Ik voel me altijd echt volwassen als ik thee drink"

*\*2 minuten later\**

**Jelte:** "Wil je een koekje bij je thee, zo lijkt het net of ik m'n leven op orde heb!"

*\*Terwijl Dirk Lotte aan het helpen is met haar herkansing voor automata\**

**Lotte:** "Huh, wat is dat? Wat ben je aan het doen?"

**Dirk:** "Dat is het boek voor automata"

*\*Bartjan H. and Tessa V. during a Program Committee Meeting\**

**Bartjan H.:** "I thought I could trust Frank Baaijens about it."

**Tessa V.:** "Proof by authority."

*\*Aan het praten over een commissieactiviteit met GESPORT\**

**Casper B.:** "Hebben ze ook douches bij Footloose? Ik ben daarna waarschijnlijk helemaal nat"

*\*Vlak voor het tentamen van Scientific Programming\**

**Trudy:** "Is het goed als ik dit bakje met druiven op tafel heb staan?"

**Jos Maubach:** "Zolang je geen druif in je oor stopt ofzo vind ik het prima."

**Liselotte:** "Ja maar ik wil 'em wiebelend."

**Alexandra S.:** "Ik zou ook gaan huilen als ik bestuur was"

**Bartjan H.:** "Lieke? Denk je dat ik dikker ben geworden sinds mijn eerste jaar? Max denkt van wel namelijk."

**Lieke J.:** "Nee, ik denk niet dat je dikker bent geworden, je bent gewoon in proportie gegroeid."

**Bartjan H.:** "Lieke, zou je thee kunnen maken?"

*\*Lieke J. trekt de koelkast open\**

**Willem:** "Ik houd er wel van om minder te drinken, in plaats van 12 bier, nog maar 8 bier op een avond."

**Samuel:** "dat is geen incest, dat heet gewoon cultuurbehoud"

**Jelte de K.:** "Met ChatGPT voelt het echt alsof ik vrienden heb."

**Noa:** "Hoe is het?"

**Max Opperman:** "Prima. Brak, hoofdpijn. Nee laat maar, het gaat eigenlijk helemaal niet prima!"

# NO-BAKE MONCHOU CHEESECAKE

In the break of each General Members Meeting, GETAART provides some amazing cakes for our lovely GEWIS members. If you enjoy making and eating cakes (some sponsored by GEWIS), you should really consider joining GETAART, and send us an email at [getaart@gewis.nl](mailto:getaart@gewis.nl)! For this edition of Supremum, I will be sharing the recipe I use for my wonderful Monchou cheesecake.

TEXT Thomas Buschman - GETAART

## LIST OF INGREDIENTS

### CRUST

- » 250g cookies of your choice
- » 125g unsalted butter

### FILLING

- » 500ml
- » 400g Monchou
- » 135g sugar
- » 24-32g vanilla sugar
- » 24g klopfix

### OPTIONAL

- » just a splash of vanilla extract
- » 150g fruit toppings



## CRUST

### STEP 1

Put a sheet of parchment paper on the bottom of your springform pan.

### STEP 2

Normal cookies are usually a bit too large to be used in a crust, so you need to crumble them. If you don't have any fancy kitchen appliances, you can put all the cookies in a clean, unused dish towel, twist the dish towel so that no crumbs can fall out, and smash the cookies into a wall until there are barely any large chunks left.

### STEP 3

Melt the butter in a pan on low heat.

### STEP 4

Once the butter is completely liquid, mix it with the cookie crumbs.

### STEP 5

Pour the cookie and butter mix into the springform, and use the bottom of a spoon to properly divide and compress the crust.

### STEP 6

Put the springform in the fridge while you prepare the Monchou filling.

## FILLING

### STEP 7

Put the sugar, vanilla sugar, Monchou, and optionally some vanilla extract in a bowl and mix until everything is a smooth mixture.

### STEP 8

Mix in the whipping cream. To prevent splattering whipping cream all over your kitchen, you should slowly pour in the whipping cream while mixing.

### STEP 9

Continue mixing until the mixture begins to solidify a bit.

### STEP 10

Add the klopfix to your mixture and mix everything. Once you can hold the bowl upside down without anything falling out, you can stop mixing.

### STEP 11

Take the springform out of the fridge, and fill it with the Monchou mixture. Use a spatula to divide the mixture evenly over the springform.

### STEP 12

Leave your cheesecake in the fridge for at least 4 hours (longer is fine too).

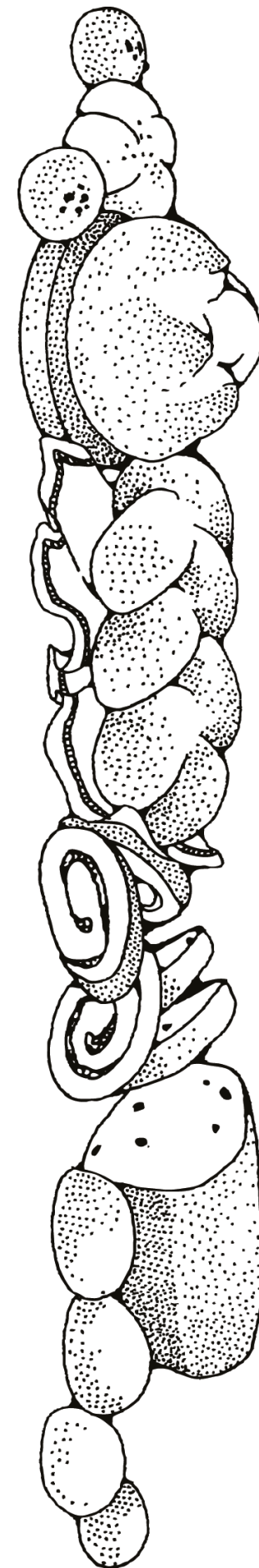
## SERVING

### STEP 13

At the moment, the cake you made isn't very healthy for you, and since our board really wants our members to be healthy, we're going to add some fruit toppings. Since this recipe appears in the ruby edition of Supremum, I suggest you put a bunch of raspberries or strawberries on top of the cheesecake.

### STEP 14

It can be difficult to serve a cheesecake like this without making a mess, so make sure you use a knife to disconnect the Monchou filling from the springform. When cutting out a piece, make sure you have fully cut the entire crust of that piece before trying to remove that piece from the rest of the cake.







MEMBER

# AERO TEAM EINDHOVEN

*Imagine a future where drones can deliver goods and packages anywhere in the world using clean energy. That's the future we're working towards in Aero! One of the biggest challenges electric aircrafts face nowadays is the limited flight range that batteries give. Our proposed solution is switching out a drone's batteries mid-flight, letting it effectively fly forever. Using small battery-swapping drones that take off from ground stations and intercept cargo drones flying above, we want to create a network that allows the cargo drones to fly between any two points with no stops.*

TEXT Bianca Eni & Egor Obidin

Aero Team Eindhoven was formed last year with the above goal in mind out of a merger of former student teams Blue Jay and SyFly and we are already almost through the first year in our four-year roadmap!

Being such a new team, the focus this year was on restructuring the subteams to achieve the best work efficiency, as most members only work part-time on this project, while also focusing on their studies. The five main focus areas at the moment are aerodynamics, avionics, manufacturing and maintenance, materials and structure, and of course, software development. Our novel way of working relies on flexibility because these larger tasks are split into mini-projects with tight deadlines. Members can join any of these smaller projects, based on their interests and availability, so they are not boxed into only one subteam forever. This way, everyone could also experience being a project lead in their area of expertise and the work is greatly parallelized. They report to the technical manager of the team, who facilitates budgeting and coordinating with other project leads, as well as providing guidance and support to help the subteams complete their project.

Engineering-wise, the team is at its very beginnings, but there is already serious work being done for the construction of the cargo drone. The creation of the battery swap system is still the center of our mission, but there first needs to be a drone to develop this system on. Therefore, at this time, there are three main ongoing mini-projects: avionics design for the cargo drone,

fuselage structure of the cargo drone, and wing structure design of the cargo drone. Meanwhile, the software team started developing autonomous flight control software, which will eventually be used to pilot the entire drone network.

**“ The software team’s goal by the end of this academic year is to be able to track a moving flying object with a quadcopter as a test drone ”**

Building innovative drones does not come without challenges. The main purpose of our drones will be long-distance flight, so despite the battery swap mechanism being in place, they need to maximize their battery usage. The aerodynamics team is already working to tackle this using XFLR5 software to optimize airfoil shapes for the efficiency and stability of the drone. The avionics team is also working on designing a low-powered electronics system that can facilitate hands-off drone control.

While the intricacies of the battery swap mechanics are not the focus this year, we have still been in contact with other companies that have on-ground battery swap solutions to see if and how they could be elevated in the air. A major change that has to be made to existing designs is their mass, because we need to ensure a lightweight and flexible design to successfully dock a new battery without losing power mid-flight.

Another very interesting challenge area is autonomous flight software. To intercept cargo drones mid-flight, position data is used to get the battery-swap drone close enough to its target. Then, for smaller distances (within a few meters), they can start using more precise positioning systems, such as computer vision with ArUco fiducial markers and depth cameras, or other more precise localization techniques, such as ultra-wideband triangulation.

An ArUco marker is a computer-generated binary codified square marker composed of a black border and an inner white matrix that serves as its identifier (think of something like a QR code that does not store actual data). Triangulation is an algorithm for calculating a position that relies on the known distance between two points and the measured angles from those two points to an object. Using the angle-side-angle triangle congruence theorem, the location of the desired object can be found.

On top of that, the idea of utilizing AR game engine design techniques has been in the works, for example, to implement collision detection, positioning, or pathfinding algorithms through the air. The software team is actively growing and is starting to have a more pivotal role in the development of the project, which is very exciting!

**“ ...the idea of utilizing AR game engine design techniques has been in the works ”**

If you are also a drone enthusiast and interested to find out more about what we do, stay tuned on our socials @aeroteamehv or visit our office in Momentum to have a chat! Together we can redefine flying!

**Aero**  
Team Eindhoven





# GESODJOE

**A**t some point in time, we have all been in the situation where we thought: "I do not have enough skills to apply for this job". Little did we know that deep down there are skills we underestimate the value of, confidence we mistook for ego and ambitions we replace with fear of failure. Companies can be scary and seem like they search for the best of the best, but if you truly understand your goals, features and ambition, you can become your best self in a professional world. Being able to identify your fears is an important first step in overcoming them. .

**TEXT** Lora Šimić - GESODJOE

Studytrip Gesodjoe is an educational and career orientational trip organized by the Studytrip Foundation of GEWIS. A mandatory and most crucial role in the trip is a study case; a small project of 100 hours with a topic related to any engineering science. It can be done at the university or at a company, and the assignment can be executed in a team of students or individually. There are three reasons why a study case is an amazing opportunity for students: career orientation, skill development and experience gain.

First of all, as a bachelor student, you have a lot of opportunities to explore different companies. Lunch lectures, company visits, and networking present a peek into the vision of a company and how you might fit in that company.

**“ Doing a study case brings much more insight as you actually become an employee for a short duration ”**

Researching technologies, communicating with fellow colleagues, being part of the stand-ups and the rest of the office life; it gives you an image of where you might end up after your studies. It is a safe space for exploring and experiencing company life first hand which will

prepare you for the first steps of your career – knowing what you want and need.

Next to that, working on a project with a company actively pushes you to develop soft and practical skills. To apply for a case, you have to submit a CV and a motivational letter. A key to a good letter is finding a balance between being honest and representing yourself in a different light, between being modest and having an ego. We tend to underestimate the value of soft skills like writing and summarizing, which are also crucial. Moreover, students have to be able to find common ground in communication with different employees of the company with which they might not be able to fully connect at first. On the other hand, within the 100 hours of a case, students get the chance to develop practical skills of all kinds. It is a chance to use the expertise the company has, to work on critical thinking, and to develop a solution oriented mindset. From the companies, students receive support and guidance throughout the whole process which adds more space for students to expand their knowledge and test their interests.

Lastly, you might wonder, what is the difference between an internship and a study case? While doing a study case, you get to enjoy South Korea for three weeks in the summer months of 2023!

# KICK OFF YOUR WRITING!

**D**Within this edition of Supremum, I got the chance to write about my writing and reading association Klink! Hence, I would like to further inspire you to develop your writing skills by using so-called writing prompts.

**TEXT** Isabel Rutten

Writing prompts are used to introduce a topic and to guide your story. Below, you can find a list of different types of writing prompts and examples for each of them. I suggest choosing a singular writing prompt, setting a timer of about 15 minutes, and then getting to work. Don't think too much about it; just start writing. I hope that this can be your first step in improving your writing skills!

## 1. SENTENCE

You can use sentences to inspire texts. Some of them can be found below, but you can use any sentence that seems interesting (check out the news for questionable headers!)

- The message inside the fortune cookie, which contained only four words, has become my fate.
- I wish I could tell you that everything went as planned, and no one got hurt, but that would be a lie.
- Is it even worth showing up here again if nobody's ever going to come and answer my questions about the kandies of GEWIS?

## 2. LOCATION

Time and place is everything. A village in the middle of nowhere can have many more different curious events than a well-developed futuristic city.

- Outside, with no stars in the sky.
- Floor 8 in the 80's.
- A secret magical bookshop.

## 3. CHARACTER

Characters can make or break a story. It is important to consider defining traits, and then consider how they would react in different situations. By doing this, you

can give them more depth.

- Someone who doesn't know how to let go.
- A vampire who doesn't know how to deal with their love for garlic.
- A sjaars who experiences the introduction week for the first time.

## 4. SONG

Music can bring out a lot of emotions. Turn on a song and start writing anything that comes up. An upbeat song might take you back to a happy memory, while a moody song does the opposite. It's preferable to choose an instrumental song, so you don't get distracted.

- Raven Flies Low – London Brew
- Gaurisci il mio Cuore – Valerio Castilla
- Adventure Time – Alan Walker, Philter

## 5. WRITING RULES

You can also challenge yourself by defining limits within your writing style. This challenges you to write emotions different than you normally would.

- Write a story entirely of dialogue.
- Write a story in which each paragraph begins or ends with the same sentence.
- Write a story that formally utilizes a mathematical sequence; e.g., the Fibonacci sequence could determine the number of words in each paragraph, or start with a number and work backwards. Make sure the formula is made clear, either within the story, or before or after it.

If you liked doing this, you can also continue by searching "writing prompts" online. By doing prompts regularly, you can grow your writing style, and prosper at making your own poems or books.





## INCLUSION IN SOFTWARE ENGINEERING

When I heard that the theme of this issue is Ruby, as a software engineering researcher I should have probably thought about the eponymous programming language or maybe about Sam Ruby, a well-known open source developer known for his contributions to multiple Apache projects, who has also done development in Ruby-the-programming-language, but I have mostly thought about Ruby Bridges.

TEXT Alexander Serebrenik

Ruby Bridges was the first African-American child to desegregate the all-white school in Louisiana in 1960. She was threatened to the extent that the U.S. Marshals had to protect her on her way to and from school. The first day at school was so chaotic that Bridges could not even make it to her classroom, being forced to spend the entire day in the principal's office. White parents pulled their own children out of the school, teachers - all teachers, except for Barbara Henry - refused to teach Bridges.

Of course, the story of little Ruby Bridges and her teacher Barbara Henry looks very remote - it took place more than sixty years ago in a country far-far-away. However, this is a story about the bravery that it takes to do the right thing and make everyone feel welcome. And this is a story of a minoritized person and allies from the majority group: Ruby Bridges, U.S. Marshals that protected her, Barbara Henry that taught her when all Henry's colleagues refused to do so, and an anonymous benefactor that sent her family the dresses, socks, and shoes that are documented on the photo and that Ruby's family could have never afforded. This is the genuine story of inclusion, a story of risk and joint effort, of rejection and opposition, and as such it is actually here and today, and in software companies and projects no less, than anywhere else.

“ We need to create better software to create a better society ”

Moreover, as software influences society and is influenced by it, we need to create better software to create a better society and we need to create a better software world to create better software. I am using the word 'world' here in a very broad sense to encompass groups of different sizes and scales, companies and open-source communities involving professional developers and people developing software who do not see themselves as developers, such as research engineers or accountants working with Excel. And 'better' -for me- means more inclusive.

So what is inclusion? Inclusion refers to an individual's perception that their unique contribution to the organization or project is appreciated and that their full participation is encouraged. From the management literature, we know that inclusion involves satisfying two complementary needs: uniqueness and belonging. On the one hand, a sense of belonging is important, but contributors that have to give up part of their unique experiences in order to belong do not really experience inclusion. For example, when we have interviewed LGBTQ+ software developers, many of them have stressed the importance of bringing their whole selves to work, i.e., being able to belong without sacrificing their gender identity or sexual orientation. Similarly, older developers are being encouraged to "blend in" with the younger crowd, attempting to find this sense of belonging by updating their CVs, choice of dress and hairstyle, or performing plastic surgery. On the other hand, recognition of someone's uniqueness without ensuring that people feel that they belong is not enough for inclusion.

For example, we observed older developers working at places where most of their coworkers are much younger; they sometimes feel out of place in social situations but are valued in more technical ones.

This is why together with my co-authors, colleagues and students I have the privilege of working with, I am working towards understanding how software development is experienced by individuals from minoritized groups as opposed to those from the dominant group, and converting this understanding to better support of these individuals, either through better software engineering tools or through better software engineering processes. For example, we have observed that men engage for longer on Stack Overflow and are similarly more likely to stay around for longer on GitHub. At the same time, multiple studies report a lack of statistically significant gender differences between men and women in terms of e.g., the ability to learn new features when debugging or individual productivity in OSS projects. Older developers are often stereotyped as more rigid and unfamiliar with the most recent technological advances, even though there is not a strong correlation between age and technical knowledge in specific knowledge areas. Based on our studies of the mentoring needs of LGBTQ+ software developers, we are currently working on designing appropriate mentoring approaches. Moreover, software developers mostly work in teams. Hence, in the complementary lines of work we consider the collaborative aspects of software engineering. For example, both our research and studies conducted by colleagues highlight that gender-diverse teams perform better and are more productive, more effective and more coordinated than non-gender-diverse ones. Moreover, as women tend to take mediating roles, software development teams are less likely to develop sub-optimal communication patterns known as community smells in the presence of women. As above, the ultimate goal of our research on collaborative aspects is to move from understanding to support, i.e., to translate our insights obtained to guidelines or tools for projects interested in creating, maintaining or improving collaboration within their communities.

In this context, I would like to mention two very different projects that have recently been started, offering us an opportunity to bring our insights to practice. Together with Anita Sarma and her team from Oregon State University, we are working on creating a dashboard for the project management committees of several projects operating under the aegis of the Apache Software Foundation. The intention is to allow the project managers to get insights into the ways that their communities collaborate, communicate and pinpoint community smells, as well as issues and opportunities related to diversity and inclusion. The second project is a collaboration with Maarten Hornikx. Maarten Hornikx is a professor of Acoustics in the Department of the Built Environment. In a recently granted project, Maarten's team is going to develop software to implement advanced acoustic techniques, while we are going to use this project as a living lab: an opportunity to contribute to create an inclusive and sustainable software community.

To conclude, I would like to reiterate that as software is omnipresent in our society and both influences it and is influenced by it, it is our societal and scientific responsibility to contribute to better software for a better society. For me, 'better' means 'more inclusive', 'more welcoming' and 'fairer', and the way that I believe one can create such software is by creating a more inclusive environment for software developers themselves such that developers of all backgrounds and walks of life can feel welcome, even if in the beginning it requires a lot of bravery as it was the case when little Ruby Bridges went to school.

If you are interested in these lines of research, you might like to check my inaugural lecture about Social Software Engineering given in November 2022 <https://www.youtube.com/watch?v=69CRnH3lbDE> or drop me a note at [a.serebrenik@tue.nl](mailto:a.serebrenik@tue.nl)



Uncredited Department of Justice photographer. William Frantz Elementary School, New Orleans, 1960. "After a Federal court ordered the desegregation of schools in the South, U.S. Marshalls escorted a young Black girl, Ruby Bridges, to school."

1 When talking about the contributions of people from minoritized groups to the world of computing, one commonly thinks about Ada Lovelace and Alan Turing, but of course, these are not the only names we remember. Think for instance about Margaret Hamilton, Peter Landin, Frank Beck, Clarence Ellis and Lynn Ann Conway

*Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via [inf.gewis.nl](http://inf.gewis.nl).*

**Arend:** "Bier is gewoon zeep, maar dan voor het brein"

**Tessa:** "Rook je nou aan mijn laptop?"

**Lotte:** "Nee ik stopte hem in mn neus"

**Victor:** "Het is niet mansplainen, want het is gewoon iets dat ik beter weet dan jij"

**Noa:** "Ik denk dat ik liever dood dan levend gevonden word in La Route"

**Leon:** "Als je minder neighbours doet, ga je meer underfitten, dus ga je minder overfitten!"

**Zus van Aal:** "Ik vind maxen echt een beta spel"

**Aimee:** "Hij kan inderdaad niet echt donker."

**Sanne:** "Nee dat klopt het is ook een lamp"

**Jelte tegen Dionne:** "Doe mij maar een klein stukje"

**Dionne:** "Wat is een klein stukje?"

**Jelte:** "Hmm, gewoon een normaal stuk"

**Sanne:** "Dan wil ik ook een klein stukje!"

**Lora S.:** "Hands for coffee without Baileys"

**Sanne:** "Wait, what is the other option?"

*\*In navolging van Annes koffie zonder lekkernijen\**

**Leon:** "Mag ik de koffie met Baileys zonder Baileys?"

*\*Eline verbrandt een citroen\**

**Rink P.:** "We kunnen ook suiker op een lepel erboven houden. Dan gaat het zoet ruiken."

**Wouter v. H.:** "We kunnen ook heroïne op de lepel doen; dan kunnen we heroïne spuiten."

*\*Kostek zet het scherm aan in 3.144\**

**Kostek:** "auw, m'n ogen!"

**Sunny:** "dan is er tenminste nog iets wat hij oogverblindend vindt op Valentijnsdag"

**Eline B.:** "Je hebt al vaak genoeg brand gesticht vandaag."

**Wouter v. H.:** "Maar ik ben ook moe."

**Viktor B. tijdens het onderwijseland:** "Neuron is de combinatie van een middelbare school aula en een Pinterest bord van 2020"

**Rohit:** "Lizzy, what FYC are you part of?"

**Lizzy:** "50/50!"

**Robin:** "My father is Jesus Christ! (Joris)"

**Robin:** "The RGB giveth, the RGB taketh"

**Pim B. tijdens de ALV:** "I like the one two three finger thingy."

**Celine d. J.:** "Ik was jong en naïef"

**Jasper G.:** "Je moet ze ook niet gaan zoeken. Het zijn geen paaseitjes..."

**Celine d. J.:** "Paas-icejes!"

*\*In the PC-CS after Jeroen Keiren's lecture on Software Spec\**

**Jeroen Keiren:** "I am still context swtiching from my lecture."

**Wouter Meulemans:** "Ah maybe you can give some examples?"

**Robin v. D.:** "Yes! Maybe you can give a brief summary?"

**Jeroen Keiren:** "Maybe you should have just attended..."

**Samuel neemt telefoon op:** "Studievereniging Samuel met GEWIS"

**Sabine G.:** "Het verbaast me dat we nooit mensen hebben neergestoken in Oss. Ik had wel elke dag een mes mee."

## APPRECIATING THE LITTLE THINGS

**H**ello everyone, my name is Lizzy and I am an international student from Cyprus, a small island in the Mediterranean.

**TEXT** Elizavet Papaconstantinou

From the first day on campus this university has made me feel like home, making a life changing transition a lot easier. However, most of the credits for this have to go to GEWIS, since from the first day of Intro week, I have felt nothing but welcome. I thought up until then that loving Mathematics was weird but places like GEWIS prove everyone wrong. Determined to dive deeper into the Dutch culture and being amazed by GEWIS, I joined an FYC, namely DeBugKing. This created a friend group within the association with whom I can have fun with and share my day to day life with over a cup of tea. Being a member of this group has definitely changed my life for the better and once again proves my choice to study at TU/e true.

Being speechless and fascinated by something huge and extravagant was never my thing. I always enjoyed the small, unnoticeable things around me, and without a doubt, I have found plenty of those here. From yellow leaves falling from the trees, to train trips gazing into endless green fields, to bike rides in the snow, I keep falling more and more in love with the Netherlands and especially Eindhoven. Although my Dutch friends find it funny at times how I get amazed by such simple yet beautiful things like snow, coming from a country where snow is as rare as hot days in the Netherlands, I learnt to take in with gratitude anything different to what I am used to. That's why I take any chance to learn more about Dutch customs and culture.

“ I would have never thought that after almost 6 months here, I would still be fascinated by the Netherlands! „

Nonetheless, as much as I love the new world I am diving into, I still miss all these small aspects of my life back home. In particular, not speaking my own language was one of the hardest things I had to adjust to, not because I am not comfortable in English but because at times my language was the fastest way to connect to my culture. Luckily though, finding a Cypriot friend group helped me stay connected with my culture, even though I am thousands of miles away from home. If I had to describe my university experience so far in one word it would be "Πορτα", which metaphorically means perfect. But I am not saying that it doesn't come with challenges, I just believe that challenges are the "salt" and "pepper" of our lives.



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# FYC 23-4: AMPLIFY

**H**ello everyone! We are FYC "Amplify", you might remember us from our Valentine's Day activity where we offered tasty chocolates and encouraged you to write a warm message to a loved one. What you may not know about us though is that most of us come from different cultures and today we are going to take you on an interesting trip to Spain and Bulgaria. You will get the chance to experience a bit of our cultures and see them through our eyes. Without further talking, let the adventure begin! First stop: Spain!

**TEXT** FYC 23-4 Amplify

Hi, I'm Connor. I have lived in Ibiza, Spain since 2004. Ibiza is part of the Balearic Islands, but its cosmopolitan aspect means it is fairly unique.

One surprise as a local would be to discover that while Spanish is the preferred language in Ibiza, Mallorca and Menorca use Catalan much more frequently. However, the culture runs deeper than just language. For starters, Ibiza has a unique tradition of attire and dancing. While the white, silky clothes sold at exorbitant prices that millionaires seem to wear and revealing outfits for parties may be more well known, the 'Ibicens' folklore has something different to offer.

The ball pagès, roughly translated to dance of farmers, is a ritual in which men and women dress up and dance. The men wear white pants and long sleeved shirts with a black vest coated with small bells and a red beret. The women dress up in thick dresses that reach down to the floor, a shorter skirt over that, a low cut garment that covers the chest and a cloth that wraps around the head resembling a hijab that leaves the fore of the hair showing. Both outfits are incredibly modest, and may hint to the presence of the Al-Andalus's impact on the culture. While the male attire stays with mostly the same colour scheme, the female attire offers room for self-expression by choosing the colour palette. Conversely, the men may express themselves more in the dance and music.

As for the music, the men may hold a variety of musical instruments made mostly out of wood, such as flutes, drums and 'castanyoles', an instrument made by tying together two concave pieces of wood that are as large as the palm of the hand and are used to make a "clacking" sound by snapping them shut. The music is very dynamic, with quickly varying tones by the flutes and very rapid percussion by the castanyoles. The women, instead of instruments, pinch and hold up their dresses to slightly below elbow level, which barely reveals their footwear. The men that dance play the castanyoles, mostly at the level of the hip. The men's dance revolves around coordinated kicking and hopping, always facing their female partner. Meanwhile, the women glide along the floor in circular motions, not always facing their partner.

The dance for both of them is fairly simple, the complexity of the tradition arising from the attire and music. And, as you may have guessed, it is somewhat of a courting ritual as well. It turns out that Ibiza is more than 70s hippies and parties. However, we do appreciate tourists very much, so feel free to come and check out both the parties and the culture! Now we're heading east to explore the hidden beauty of Eastern Europe. And we arrive in Bulgaria! A small country in the Balkans, Bulgaria is like a hidden gem. Appearing for the first time on the world map in the distant 7th century our country is home to breathtaking nature, long-living traditions and rich cuisine.

Now let me tell you a bit about Bulgarian culture. Something central are our traditional dances, which bring people together and have been preserving traditions for more than thousand years. People hold each other's hands and dance in a big circle or a line. Just imagine seeing the whole city square on New Year's Eve as one big colourful dance. But it is not only a one time wonder during the year - on many major celebrations you can see people from different ages and backgrounds dance together. There are also people who dedicate their lives to this beautiful tradition and dance professionally in one of the many national ensembles we have. You can watch them at many concerts and national holidays where they usually encourage everyone to join them. No wonder why we are known for our friendliness and hospitality.

Close and united, Bulgarian people will always welcome you with open arms. Despite the hardships we stick together and this is the most important value passed from parents to children. We also love tourists who come to explore our country and culture. If you have planned a trip to one of our mountains it is very likely that you come across a small village hidden from the world. And the people there will invite you to their homes with open arms, they will tell you stories and make you feel at home.

Another major part of Bulgarian culture is our cuisine. Rich, diverse, authentic... And did you know that Bulgaria is the homeland of yogurt, or how we call it 'sour milk'? We love it so much that we can put it on (almost) everything! And it definitely refreshes us during the hot summer days. Located on the coast of the Black Sea, Bulgaria attracts tourists from all over the world to come and enjoy our beautiful summers. And if you are not a fan of the beach, our country can offer its magnificent mountains, which hide the most beautiful views. So, do not hesitate and plan a trip to Bulgaria in the future! We will be very happy to see you there and we promise you amazing memories to bring back home!

Unfortunately, everything comes to an end at some point. And this is the end of our journey. We are hoping that we managed to show you our cultures in the way we experience them and hopefully you are now even more curious to explore them!



# WRITING & READING ASSOCIATION KLINK!

**E**veryone reads. Even you, right now! However, before you can read something, it needs to be written down. I read a lot of books when I was younger, and I got inspired to start writing as well. As it happens, there is also a fun student association at the TU/e with like-minded people: Klink!

TEXT Isabel Rutten

Klink was set up about two years ago, starting in the Ccorona pandemic. Starting at Discord but later doing offline sessions in Luna, people gathered to do writing sessions and discuss their writing progress. The association became part of Scala, the umbrella of the culture associations, as a so-called Culture Companion. In 2022, the first open podium for spoken word was finally organized and the first bundle of short stories was released! More open podia and book releases have taken place since then, allowing the association to grow in the way it is today!

Many ways exist to train your writing, but one way is evident: to simply write. Hence, a writing session is organized every Monday from about 20:00 to 21:00. Within this session, you are challenged to train your writing by following writing prompts: a topic used to guide your writing. This can be anything: an ominous sentence, a mysterious song, a well-known feeling. Often, the participant gets about 15 minutes to write, which seems much shorter when you are actually writing. It is a great way to improve your writing skills and define your own style. I even heard that there is another article within this Supremum by an enthusiastic Klink writer about writing prompts...

Would you rather write a longer book? Then go to the long writing session after the writing prompt session on Monday (21:00 – 22:00). Within this, excerpts are read from your book and discussed. The feedback will be less about grammar and writing style, but more about the content of the story and the character

development. It is also a great motivator to actually get started on that book you have been holding off on writing.

Now that you have finally started writing, you would like to share it with the world. That is also possible at Klink! At open podia, participants can come to the front and deliver their favorite pieces of writing. This is called spoken word, and both the text and the performance matter here. If you do not have any experience yet, that is fine: other members of Klink are happy to give you tips and help you develop your writing piece for spoken word.

Lastly, Klink also has a book club! They read one book each quartile. This is not a high pace, but it gives you enough time to keep up despite some busy schedule. Next to that, you will read books you would not normally read, such as Sinopticon (Chinese sci-fi short stories), HEX (horror), and The Trial (Franz Kafka). We choose a book based on input from participants, so they are very diverse! Their weekly discussion hour is scheduled each quartile, depending on the participants.

If this has made you as enthusiastic as I am, then take the next step and come to an activity or even become a Klinker or "Medeklinker"! You can get more information by sending a mail to klink@studentencultuur.nl. I look forward to seeing you at the next writing session!

**I**nfimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via [inf.gewis.nl](https://inf.gewis.nl).

**Victor K:** "Je weet wat ze zeggen: pest een meisje, krijg uhh seks?"

**Tom U.:** "Ik vind Webmin Duits!"

*\*Wietske de B. tijdens de Carnavalsborrel nadat Tom U. en Bartjan H. Wietske vragen om morgen even in te loggen in de ABN Amro\**

**Wietske:** "Ik doe dat nu, ik moet nuchter worden"

**Lucy:** "Maar sako had gewoon een goede 2 cm langer"

**Jeroen:** "Safe the Kostek! Drink appelsap"

**Ollie bij het lezen van notulen:** "Dit is waarom ik alcoholist wordt"

**Anoniem:** "De sexuele spanning is de drijfveer van onze vriendengroep."

**Lieke J.:** "Ik vind dat deze maand mooie tieten heeft."

**Jelte:** "Ik heb nog steeds geen LinkedIn, is dat iets wat je moet downloaden als student?"

**René:** "Het is bewezen: Sven kan beter blind zwemandjes inschenken dan calculus toetsen maken"

**Ruben:** "Ik ben een meeloper, ik ben geen pester."

**Random sjaars during a round table discussion:** "I found it really annoying there was no discussion group about Hash Maps, because you had to use it for an exercise for the homework set"

**Bettina Speckmann:** "Yeah, we know there was no discussion group, you weren't supposed to use a Hash Map..."

**Georg Prokert:** "Sometimes violence is the answer"

**Kevin:** "Hoe kan een bedrijf failiet gaan, ze gaven gratis schriften"

**Rink:** "Vrijdag voor kerst om 22:59 de server updaten? Dat heb ik vorig jaar toch ook gedaan?"

**Koen v.d. B.:** "Leon, omdat je nu dat flesje water van tafel hebt gegooid, ga ik vanavond niet met je zoenen!"

**Rink:** "Ik ben echt geweldig want ik heb hier over nagedacht"

**Bartjan H.:** "Leon, wat vind je van Simon?"

**Leon V.:** "Welke Simon??"

**Leon V.:** "Mijn liefde voor kruiswoordpuzzels heeft niks te maken met m'n geaardheid"

**Leon V.:** "Wat is een..."

*\*Zet een Vlaams accent op\**

**Leon V.:** "porch kaaïen"

**Bartjan H.:** "De auto?? Een Porsche Cayenne"

**Leon V.:** "Oh, ik dacht dat het een Vlaams woord was"

**Anne B.:** "Lieke heeft goede vinger skills."

**Robin v. D.:** "Eerlijk? Ik denk dat Urk echt een untapped market is."

**Robin:** "Ik ben het ongeboren kind van de beste vriend van mijn moeder, want ze zijn gay"

**Wietske de B.:** "Anne gaat au pair worden volgend jaar"

**Samuel O.:** "Oh, waar?"

**Wietske de B.:** "Bij kinderen ofzo"

**Juul:** "Een broodje knak op de donderdag, dat vult toch wel een gat in je ziel."



# COOKING WITH “IN VINO VERITAS”: GUA BAO WITH PORK BELLY AND MUSHROOM FILLING



*In today's fast-paced world, the cost of living continues to escalate, leaving many of us grappling with the tough choices of how to allocate our hard-earned money. Amidst the rising prices of basic necessities, the simple pleasures of good food and drinks are becoming increasingly inaccessible, causing us to sacrifice the little luxuries that once brought us joy and relaxation.*

TEXT Praeses Oosterholt - I.V.V

Regrettably, this is the reality that many of my fellow students face today. As a student myself, I have witnessed the struggles that my peers endure in their daily lives. I recently had a conversation with a disheartened student who expressed his frustrations about the mounting cost of living. Despite working long hours and seeking financial aid, he found himself with very little disposable income at the end of each month, leaving him unable to indulge in the little luxuries that he had once taken for granted, such as relishing a fancy meal or savoring a fine bottle of wine.

However, we from Fraternity “In Vino Veritas” cannot let this slide. It is our duty and pledge to GEWIS to assist our friends in times of need. As a result, I took up the call to arms, or in this case, the call to cooking, and have come up with a solution to this dilemma. Allow me to introduce you to a culinary gem that is both inexpensive and sophisticated: the Steamed Gua Bao. This Taiwanese street food is the perfect blend of soft, pillowy buns and savory fillings, and can be easily prepared using readily available ingredients that won't strain your wallet.

I must confess that I have long been a fan of Bao Pao, which is a closely related sibling recipe to the Gua Bao. The most significant difference is that the Gua Bao is

served open, while with Bao Pao, the contents are entirely inside the steamed bun. Before I became Praeses, I was not too shy of buying, nay stockpiling, deep-frozen Bao Pao in the freezer of GEWIS. In times of need, I could quickly throw two in the microwave and survive another day. It should come as no surprise that making Gua Bao from scratch is much more exquisite and delightful than heating up frozen food, not to mention the satisfying feeling of making such a beautiful recipe from the ground up. It is an experience and taste sensation that all students should experience.

So, let us delve into the secrets of this culinary delight and discover how it can rescue your craving for a sumptuous snack without having to compromise on quality or expense. Together, we can savor the pleasures of good food and drink while still maintaining a budget-friendly lifestyle

The recipe has three parts, the bread, the pork belly filling and the pulled mushroom filling for vegetarians.

Without further ado, the ingredients and steps to make 10 heavenly Steamed Gua Bao buns.

## LIST OF INGREDIENTS BUNS

- » 3 3/4 cups (450g) plain (all purpose) flour
- » 2 tbsp caster sugar
- » 1/2 tsp salt
- » 2 tsp instant dried yeast
- » 3 tbsp whole milk
- » 210ml warm water
- » 3 tbsp unsalted butter - very soft
- » 1 tbsp olive oil

Now, let's dive into the step-by-step process to make these soft, pillowy buns:

1. Start by mixing the flour, sugar, salt, and yeast in a bowl.
2. In a separate jug, stir together the milk, warm water, and soft butter until the butter melts.
3. Pour the liquid mixture into the bowl with the dry ingredients and stir until a dough forms.
4. Knead the dough for 10 minutes, then place it in a bowl to rise.
5. Let the dough rise for about 90 minutes or until it has doubled in size.
6. Knead the dough again and divide it into 10 equal-sized balls.
7. Roll out each ball into an oval shape and brush it with olive oil.
8. Fold the dough over and use a chopstick in the middle to create a small space in the fold.
9. Place the folded buns on a baking tray and let them rise for another 60 minutes until they have puffed up.
10. Steam the buns in a steam pan for 15 minutes.

For the Pork Belly filling, you will need the meat itself and a fitting glaze. Begin by slow cooking the pork when the buns are going through their first prove. Here are the ingredients you'll need:

## LIST OF INGREDIENTS PORK BELLY

- » 1Kg rindless pork belly slices chopped in half (each piece being approximately the length of your index finger)
- » 1 Liter hot chicken/veg stock
- » 1 tbsp minced ginger
- » 3 cloves garlic, peeled & chopped in half
- » 1 tbsp rice wine
- » 1 tbsp caster sugar

## LIST OF INGREDIENTS PORK BELLY

- » 2 tbsp vegetable oil
- » 1 pinch of salt and pepper
- » 1 tbsp minced ginger
- » 1 red chilli, finely chopped
- » 2 tbsp honey
- » 2 tbsp brown sugar
- » 3 tbsp dark soy sauce
- » 1 tsp lemon grass paste

Here's how to prepare the filling:

1. Add pork belly slices to a pan with stock, ginger, garlic, rice wine, and sugar. Simmer for 2 hours until tender.
2. Drain and slice into small chunks.
3. At the same time as you're steaming the bao buns, you can start frying the pork belly. Fry in a pan with a little oil and some salt and pepper until golden brown.
4. Add the glaze to the pan, which is a mixture of ginger, chilli, honey, brown sugar, soy sauce, and lemon grass paste.
5. Bring to the boil and bubble until dark and sticky.



With that, your first filling is complete! If you don't want to make the pulled mushroom filling (although you definitely should!), you can pile that sticky pork into the bao buns with lots of fresh coriander, spring onions, strips of chilli, sesame seeds, and chopped cashews to give yourself a meal like you've never experienced before.

Next up, let's talk about the pulled mushroom filling, which is a delicious vegetarian option. Here's what you'll need to make it:

**LIST OF INGREDIENTS MUSHROOM FILLING**

- » 4 king oyster mushrooms
- » 1 tablespoon of oil to coat the mushrooms
- » 1 tablespoon of fresh minced ginger
- » 1 teaspoon of smoked paprika
- » ¼ teaspoon of salt
- » 2 cloves of minced garlic
- » 2 tablespoons of hoisin sauce
- » 1 tablespoon of sriracha

Making the filling is incredibly simple. Begin by preheating your oven to 400°F (204°C). Clean the mushrooms using a damp paper towel, then shred the stems and caps roughly into pieces using two forks. Place the pieces on a baking sheet lined with parchment paper. Drizzle the mushroom pieces with oil, ginger, paprika, salt, and garlic, and toss everything around to evenly coat. Bake for 20 minutes or until the mushrooms are a bit crispy and brown on the edges. Finally, stir in the hoisin sauce and sriracha.

And voila! You now have a delicious vegetarian mushroom filling for your bao buns. Of course, there are countless other fillings you can try, so feel free to get creative and experiment to your heart's content.



# A NIGHT TO REMEMBER AND A KING TO FORGET

*The sound of birds chirping the sunlight into the day. A creek welcomed the leaves which were falling in it. Light shone upon the kingdom of Evenquil that quiet morning. Countless stories would later be told of what had taken place the night before. March 27th would prove to be the very last day anyone would see or hear of king Martijn IIX.*

**TEXT** Arend Roijackers - FYC 23-0: 50/50

"The house always wins!" king Martijn exclaimed as he heard of the plans of the wizard to organize a poker night. "We shall host the evening," he proudly stated, "then, as the house, we are bound to win." Oblivious to his father's faulty logic, Mex looked up at his dad in complete awe. It only took a second before his attention once again shifted back to his iOrb 14 Max Pro. A short scream escaped the iOrb as another colored bird was fired at a ramshackle castle occupied by green monsters.

The king, afraid to lose his well-earned gold, made his way down the spiral stairs into the darkness. Deep, deep below lay a mountain of gold, protected by an ancient being. Stories are told of Stijn, the dragon that has occupied this golden throne since the beginning of time. "Who dares enter my domain", the beast bellowed from the darkness. "It is I, king Martijn IIX, who humbly enters your domain", the king said, trembling and shaking on his legs. "Are you willing to exchange some of your gold for some of my finest drinks? My lord?". A fire lights in the darkness, as a loud "Hmpfh" echoes through the halls. "What are you willing to offer, king Martijn", the dragon questioned. "Alcohol, I have plenty of it in many different forms," Martijn responded "to me it is nothing but mere water, to you it could be a delicious treat." The dragon thought long and hard before answering the king's wishes, but with the condition that the dragon himself would be the dealer and would get to keep the dealer's winnings.



Excitement filled the king's body as the poker night now came closer to becoming a reality. "The people, they must know of this magical evening." He thought to himself. Annemiek was summoned to the court. An old lady stumbled in, dressed in beautiful pink silks. "My dear Annemiek, would you be so kind to spread the word of the marvellous night that is about to come!", the king spoke upon the beautiful sight of his ever-loyal town crier entering the castle. Soon, the whole town was under the spell of this poker night. Red and black flags filled the sky, posters decorated the walls, and everyone spoke of this spectacular event. There on his balcony the king stood, looking out over his kingdom, whispering to himself "I did it".

This however had given Arend, the designer, a very busy week. His days were filled with writing texts and designing posters and flags and above all else, clothes. The King had asked for the most beautiful attire Arend could muster, for him and his staff to wear. The colours red and black were chosen in light of the purpose of the night, the best casino experience to ever have taken place in Evenquil. Arend spent weeks refining his creations, until the king was fully satisfied.

Darkness had enveloped Evenquil when the king made his way to the wizards tower. A soft blue hue perpetually floating around the whole structure.

"Willem, is that it then?" the king asked eagerly, "Are we fully prepared for the night?". The wizard clutched his orb tightly, a rose whirlpool of infinitely small particles materializing inside. "Yes, yes" he muttered, his eyes now also taking on the visage of his orb. "Money, check. Dealer, check. Publicity, check. Attire, check." The king's pupils widened, his demeanour transformed from excited to exhilarated, it was as if he was jumping in place from his excitement. "We will have a great night, I will get rich, everyone will love me, I will be king forev.". His thought was interrupted by the gravelly voice of the old wizard. "There is one last thing missing", he paused for a moment, which felt like an eternity to the king. "Entertainment".

"But of course", king Martijn IIX muttered to himself. "How could I have forgotten."

A soft sound of clinking beer and laughing townsfolk can be heard from the outside of the Prancing Pony. Late in the night, the warm orange light that crawls out of the windows lies as a soft rug on the cold clinkers

outside. The Prancing Pony was not often home to the high class citizens of realm Evenquil. The usual crowd were common townsfolk, artisans, serfs and farmers. Typically, the court jester Sandor was also found here, making some coin on his off days. He was often accompanied



by the puppeteer Hiske, and her marionette Noot/Noet, a grey and white penguin. Together they entertain the people in the Prancing Pony, always to great success. They are adored by the folk here.

A loud creak filled the room as the door was slowly opened. A cold breeze creeps through the door and over the patrons, shifting their attention to the figure in the darkness. A person stepped through, a regal cape resting on his neck. Murmuring ensued within the crowd, but King Martijn knew his purpose. He steps towards Sandor and Hiske, and kindly asks them to join him outside. The three once again enter the darkness, leaving the people bewildered. This visit seemed to have ended before it even started.

How beautiful and harmonious this tavern and the town it is in might seem, the reality was quite the opposite. War raged the lands, territory lost and gained by the day, hundreds of soldiers lost in battle.

"Sir, the armies of Eften are on our borders. King Ellidae has offered mercy if we choose to surrender now. What do you propose we do your majesty?", marshal Sjaak asked. After a moment of pondering in silence, king Martijn IIX responds decisively: "Hold them off for now. The casino night is in two days, we cannot give up now. The day after, we shall have the support and the money of our subjects and crush our opponents." "But your majesty, their armies are far superior to ours.", Sjaak said pressingly. The king quickly responded: "Sjaak, I appreciate your efforts, but as your King, you must follow my command. I promise you, we shall prevail." The night took the two men, one with full confidence, one concerned for the future of Evenquil.

Light was once again welcomed into the streets of Evenquil as the sun rose on the 27th of March. Invigorated from a good nights rest, the king opened his curtains, looking out on Evenquil. Birds happily chirped as a leaf fell on King Martijn's head. This was the last day King Martijn IIX ruled Evenquil. This was the day of the Casino Night.

In the Grand Hall, the same posters filled the walls. A soft orange hue lights various tables with all sorts of games. A pile of glinstering gold is found in the back of the Hall, sat on by the dragon Stijn. He wears a beautiful suit, the perfect craftsmanship of the designer shining through.

King Martijn IIX stands in front of the gigantic doors, mere seconds before the opening. In the distance, the bells in the clocktower of Evenquil are rung. A flock of birds atop of the Grand Hall takes off as the gates open. A flood of townfolk enter the building, making use of the drinks that border the entrance.

Various servants are still hastily filling the glasses, the impulsivity of the King ultimately shining through in the preparations. Behind the bar, chefs were still busy preparing the special drinks king Martijn IIX had ordered for this event. The Master Chef, the one responsible for the drinks had not shown up, thus the kitchen was rife with improvising, amateur chefs. The ever calm and composed dragon Stijn, now in panic, shoving piles of gold in small sacks to give to the players.

The crowd stood confused in the Grand Hall, until a gentle clink could be heard from behind the bar. "Dear players", the King started. "I welcome you all to the majestic Evenquil Casino Night!". A tremendous applause erupts from the crowd. "Please let us enjoy together this amazing night, and make it one that will rest in the history books forever!" The folk moved to the Dragon, who was now finally ready to hand out the sacks of coins to play with. Others went to the bar, to buy themselves some drinks. The night had finally kicked off. Soon, all the tables would be filled with townfolk playing games, the open spaces filled with patrons drinking and laughing, and King Martijn overlooking it all.

Despite the troublesome beginning, the night now seemed to be going swimmingly. The jester Sandor and the puppeteer Hiske were going around, trying to give small shows to gambling patrons. However, between the drinking and gambling, they did not seem to have much time left for tomfoolery. Sandor was ridiculed for his outfit and his silly jokes. The strings that held Noot to the cross brace were snapped and Noot was stolen from Hiske. The entertainers went to their King, defeated, "King Martijn, these people are awful! Please keep them under control!". The King, convinced nothing could go wrong, answered poignantly: "I cannot believe that my people could act that way. You must try again, and never give up!". For the rest of the night, Sandor and Hiske were humiliated, eventually giving up their tasks, and unfortunately the designer and the town crier underwent the same fate.

Arend and Annemiek had been hanging together, as they had gotten to know each other fairly well given that their lines of work often intertwined. Many people came to the casino night, the Grand Hall looked better than ever, and the outfits that people wore were the most beautiful anyone had ever seen. The least these two deserved were a bit of acknowledgement, and maybe some monetary compensation for their efforts. After all, they had spent quite a bit to make this night as beautiful as it had become. In reality, both were almost bankrupt. The Casino Night had cost a lot of money. They approached the king, "King Martijn, is there possibly a possibility that you could promote our businesses to the populace here," they asked carefully, "and could we possibly get a teeny, tiny bit of the winnings tonight?". The king replied boisterously. "But of course! You will get your compensation, I will make sure of it!" He stood up on his chair, and clinked a knife to his wine glass. He clinked it again, and again, and again. No attention. The sounds of laughing and gambling heavily overshadowed the Kings attempts. At the same moment, Arend and Annemiek looked over to the Dragon, who sat on his mountain of gold. Both could have sworn that heap of gold was larger, earlier in the night. Stijn had been promised riches. As the king had stated;

"The house always wins, and since we are the house, we are bound to win!". As the court wizard had always expected, this faulty logic now started to shine through. The low folk of Evenquil might not have been excellent leaders or skilled businessmen, but how they could gamble was extraordinary. The gold rolled over the table in heaps, many bettors clearing the banks of the croupiers. The glinstering heap of gold Stijn was sat on kept dwindling all night long, dealers having to take more and more to play with. "Willem, is there anything we can do to stop this madness. I was promised gold", the dragon muttered. "I wish," the voice of wisdom stated, "but it has gone too far already. There is only one option left, which I hope we don't have to resort to."

Far from the castle, outside of the barracks a subtle breeze moves through the marshals hair, as blossom starts to swirl up in the air. The initially chaotic movements of the blossom transformed into something that seemed like a face. The rose visage of the wizard appears in front of the marshal. The breeze morphs into a voice saying: "The house is losing, stocks are dwindling. The king is slowly losing his money and the support of his loyalists. The people have not caught on yet. Refute the command of his majesty, take the best course of action for Evenquil." Relieved, the marshal offered a truce to Eften, hoping both of the countries would be spared of bloodshed. Sjaak was the first to arrive at the Dommeltunnel

Six other loyalists abandoned their posts at the Casino Night to commune down at the Dommeltunnel, a remnant of the ancient emperor Dommel. "This cannot stand" "The king is in over his head" "Who else will do it" "We must save Evenquil while we still can" "It is now or never"

The troupe, now equipped with a plan, made their way back to the Grand Hall, where the Casino Night was still in full swing. The King saw the seven silhouettes enter the hall from the other side of where he stood. Slowly they approached, King Martijn IIX accepting his fate. A gravelly voice interrupted Martijn IIX's tranquility, as it grumbled from the darkness: "I have served you for many years, but greed has consumed you as I expected it would. King Martijn, I am terribly sorry."

It was at that moment that a loud grinding sound could be heard from outside, as a monstrous gray beast bursted through the wall. A 101 horsepower 2010 Volkswagen Caddy stormed through, sweeping the Kings legs as if attacked by a rocket-powered broom. The King flew numerous feet into the air before landing with a loud thud on the cold stone floor.

The sound of birds chirping the sunlight into the day. A creek welcomed the leaves which were falling in it. Light shone upon the kingdom of Evenquil that quiet morning. Countless stories would later be told of what had taken place the night before. March 27th would prove to be the very last day anyone would see or hear of king Martijn IIX, hit by a van during the night of his dreams. Martijn IIX shall be remembered as a good king.

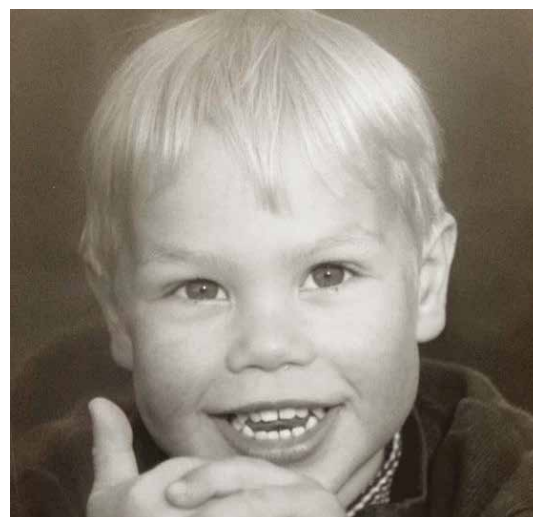


# YO MAMA

## JASPER IS A RUBY

**T**he deep vibrant red color of a ruby symbolizes passion and emotion. Jasper exuded energy and enthusiasm as a little boy. Full of passion he went for karate, for football and drumming was his greatest pleasure. What a rhythm, what a sound and what a power. He was never afraid and went straight to his goal.

**TEXT** Nancy Gregoire (Jasper's mother)



Rubies are known for their durability. Jasper is strong and persistent and we have learned a lot from this ourselves. When he was young and we went for a walk, he often didn't feel like it anymore or wanted to go in a different direction than we had thought of. If Jasper said no, then it was no...not to be confused. We hid behind trees quite a few times, so that maybe he would look for us after all. Unfortunately, that rarely worked out!



The shine and brilliance of a ruby makes it attractive and unforgettable! Look at that beautiful child and I don't have to add anything to this. Radiant and striking!

Jasper is unique and has his own unique characteristics. He is outspoken and has a firm opinion, but he is always there for everyone. He is sweet, enterprising, stubborn and shows leadership at the right time. His love of good food makes for delicious meals!



A ruby is valued for its beauty and rarity. Jasper is very valuable. Valuable for his family, his relatives, his friends and his environment. He is ready for others and if something needs to be arranged, he will never avoid it but go for it!

We are very proud of him and look how he has grown from a wonderfully enterprising, loving child to a beautiful man; a beautiful ruby!

# STUDY TRIP

**I** am excited to announce that I, Jesse, will be going on a study trip to South Korea soon. As a first-year master's student in Industrial and Applied Mathematics, I have a strong educational background in mathematics, having completed my bachelor's degree in mathematics here at the TU/e. During my bachelor's studies, I discovered a passion for the scientific computing aspect of mathematics, which has led me to pursue a master's degree in this field.

**TEXT** Jesse Schardijn

Last year, there was an announcement of a study trip to an unknown destination. With so much time spent behind a desk due to the Corona pandemic, I saw this as an opportunity to explore an interesting country in the world. The location was eventually revealed to be South Korea and I was immediately sold on the idea. The country is so different from the Netherlands, and I believe that this trip will provide a great opportunity for me to learn and grow as a person and as a student.

Next to paying a certain amount for the trip, I have been working on a case of 100 hours to make up the whole payment. I have been dedicating my time to working on a survey that would help academic institutes to choose the correct MOOC platform to put their courses online on. This project is a departure from my usual field of study, which typically involves complex computations.



I have, however, found this work to be an interesting and valuable challenge, as it has allowed me to apply my skills in a different context and make a tangible contribution to the academic community.

Along with the work case, I have had the opportunity to bond with all the students and lecturers that will join the trip through a variety of fun activities. Some examples include a taekwondo lecture, movie night, borrels, and a very important lecture on the Korean language. These activities have been a great way to get to know my fellow trip participants and build a sense of community before our departure.

I am really looking forward to embracing the South Korean culture, connecting with Korean people, and experiencing Korean food. As a well-developed country with many technological advancements, I am also eager to experience their expertise in the technical field by visiting companies and universities. I believe that this will provide me with valuable learning experiences that I can bring back to my studies and future career.

I am looking forward to this exciting opportunity to expand my knowledge and gain new experiences in South Korea. I can't wait to see what this study trip has in store for me and I am eager to share my experiences with all of you upon my return.



# GELIMBO

**D**ear Limburgian culture enthusiasts, our dearest members of GEWIS, hi everyone, In the sixteen years of the existence of fraternity GELIMBO there were so many activities, happenings that were amazing, we could go on about it for hours. But we thought, how about sharing your personal memories of GELIMBO over the past years! Hereby the last words you have written to us at the goodbye party:

TEXT GELIMBO

**Rob:** "Ow kut, was die GELIMBYE Party op 19 december? Toen had ik de boekenclubbijeenkomst."

**Rob:** "Oh shit, was that GELIMBYE Party on December 19? Then I had the book club meeting."

**Mattijn:** "Oh joh, ik ben oprichter, ik mag dat." (vul zelf de misdaad maar in). "t Was leuk feesten met jullie."

**Mattijn:** "Oh dude, I am a founder, I can do that." (fill in the committed crime yourself). "It was fun to party with you."

**Martijn:** "Fijne uitvaart en tot de volgende!"

**Martijn:** "Have a beautiful funeral and see you next time!"

**Alex:** "Jullie zijn allemaal SCHATJES! Xxx-jes"

**Alex:** "You are all CUTIES! Xxx-jes"

**Mattijn:** "Het waren ongelofelijke jaren!"

**Mattijn:** "They were unbelievable years!"

**Ysabelle:** "Hoi GELIMBO, jullie hebben mij leren carnavallen, ondanks dat ik zelf een Limburger ben. Ik heb genoten van al de verschillende activiteiten die jullie hebben georganiseerd in de afgelopen jaren. Dankjewel voor de geweldige ervaringen!"

**Ysabelle:** "Hi GELIMBO, you guys have teached me how to carnaval, despite that I am a Limburger myself. I have enjoyed all the different activities you have organized over the years. Thank you for the great experiences!"

**Willem:** "Lief GELIMBO, bedankt voor de mooie avonden, hopelijk leeft jullie gedachtegoed voort. P.S. Aromat in bier is goor."

**Willem:** "Dear GELIMBO, thank you for the beautiful evenings, hopefully your legacy will live on. P.S. Aromat in beer is gross."

**Leon:** "Allerliefste GELIMBO, helaas, het is zover. Na menig van jullie activiteiten was ik al bang dat ik nooit meer op zou staan de volgende ochtend."

**Leon:** "Dearest GELIMBO, alas, the time has come. After many of your activities, I was already afraid that I would never get up the next morning."

**Liezeshotje:** "Lief GELIMBO, ik heb het zo leuk gehad met jullie. Van de shotjes tot de feestjes, super jammer dat jullie gaan. Xx"

**Liezeshotje:** "Dear GELIMBO, I had such a great time with you. From the shots to the parties, it's a shame you're going. Xx"

**Vinz:** "Mijn eerste jaar in het Zuiden ging ik mee op carnavalstocht naar Mestreech. De Aromat was lekker, m'n biershotjes wat minder. Nogmaals sorry, Ralph! Xoxo"

**Vinz:** "My first year in the South I went on a carnival trip to Mestreech. The Aromat was good, my beer shots a little less. Sorry again Ralph! Xoxo"

**Maureen:** "TERING TIETEN, kusjes."

**Maureen:** "TERING TIETEN, kisses."

**Ralph:** "Tering tietten, jo hè, feitelijk dan hè, feitelijk dan hè, gewoonlijk proosten we met Schrobblèr, maar iets anders mag natuurlijk ook, correct! Xxx"

**Ralph:** "Tering tietten, jo hè, feitelijk dan hè, feitelijk dan hè, gewoonlijk proosten we met Schrobblèr, maar iets anders mag natuurlijk ook, correct! Xxx"

**Nicky:** "Lief GELIMBO, vanavond is een bijzondere avond waarop wij de kans krijgen om afscheid van jullie te nemen. Door de jaren heen ben ik met veel plezier bij jullie activiteiten geweest; van de Dieszitting in mijn eerste jaar tot jullie laatste (of eigenlijk voorlaatste) avond samen vanavond. Met veel plezier denk ik terug aan al onze mooie momenten; carnaval in Mestreech, het winnen van jullie jaarlijkse quiz en nog zo veel meer! Bedankt! Liefs"

**Nicky:** "Dear GELIMBO, tonight is a special evening where we get the chance to say goodbye to you. Over the years I have enjoyed attending your activities; from the Dieszitting in my first year to your last (or actually second to last) evening together tonight. With great pleasure I remember all our beautiful moments; carnaval in Mestreech, winning your annual quiz and so much more! Thank you! Love"

**Prins Sanne I:** "Lief GELIMBO, bedankt voor al jullie inzet en de fantastische activiteiten die jullie georganiseerd hebben. Jullie enthousiasme en creativiteit zijn eigenschappen waar de andere dispuuten jaloers op mogen zijn. Bedankt dat ik mijn mooiste carnaval met jullie heb mogen beleven. Xx"

**Prince Sanne I:** "Dear GELIMBO, thank you for all your efforts and the fantastic activities you have organized. Your enthusiasm and creativity are qualities that the other fraternities can envy. Thank you for letting me experience my most beautiful carnaval with you. Xx"

**Adjutant Laura I:** "Lief GELIMBO, het was mooi! Ik ga Dieszittingen, Prinsen en Prinsessen en carnavallen met jullie heel erg missen! Rust zacht! Jullie zijn op de piek gegaan! Liefs"

**Adjutant Laura I:** "Dear GELIMBO, it was beautiful!"

I'm going to miss Dieszittings, Princes and Princesses and carnivals with you very much! Rest in peace! You went on the peak! Love"

**Prins Romy I:** "Lief GELIMBO, ik vind het super jammer dat jullie 'niet meer opstaan'. Gelukkig hebben we (vind ik) super veel mooie herinneringen gemaakt (en verloren hihi). Bedankt voor alles!! Xx"

**Prince Romy I:** "Dear GELIMBO, I am very sorry that you 'don't get up anymore'. Fortunately we (I think) made a lot of great memories (and lost them hihi). Thanks for everything!! Xx"

**Irne:** "Lief GELIMBO, heel erg bedankt voor jullie heerlijke aanwezigheid bij GEWIS. Elk jaar was het weer genieten tijdens jullie altijd maar overtreffende activiteiten. De Dieszittingen blijven altijd een van mijn meest geliefde GEWIS-activiteiten. Hopelijk mogen we jullie nog veel bij GEWIS blijven zien. Rust in vrede <3. Xxx"

**Irne:** "Dear GELIMBO, thank you very much for your wonderful presence at GEWIS. Every year it was fun again during your always excelling activities. The Dieszittings will always be one of my favourite GEWIS activities. Hopefully we will still see you a lot at GEWIS. Rest in peace <3. Xxx"

Thank you all for your lovely messages. We got lots and lots of them and read every one of them together. We will remember our fraternity with lots of love and happy memories, also thanks to you guys! But for now it is our time to go.

## FAREWELL LETTER – GELIMBO

Dear GMM, dear members of GEWIS,

Last Monday, we celebrated together with you our existence, for one last time. And although quite some of you might not remember all details of that night anymore... we do hope that your memory of our fraternity will remain.

In 2006, on November 29, our fraternity was established by Yves Houben, Mattijn Schutte, Rob Ritzen and Kenneth van Koot. With the goal: to have GEWIS experience Limburgian initiatives with admiration and honor. And paraphrasing the words of Mattijn during the party last Monday: "When GELIMBO was established, we never thought for a second it would last more than five years. It was evident that we would dissolve once we would graduate".

But the contrary happened, and 16 wonderful years later, we are standing here to close off this great period with you.

In the meantime, we have seen multiple GEWIS rooms. We have had multiple logos in our beloved GEWIS room. A 'mergel' one, that sadly passed away in 2014 at its 'untergang' when falling off the wall. A cheap laser printed one, that, painfully, too many people couldn't distinguish from the valuable OG. And our current one, that appeared to be multifunctional. Rotatable, and perfectly suitable as a coat hanger, as noted by many parents during the parent days.

During those 16 years, we have always done our best to balance culture, fun, celebration, uniqueness and 'gekkigheid' in our activities for GEWIS. And moreover to balance our internal activities well, with the ones we organized for you.

Many of you will hopefully remember our Dieszittingen, with the announcement of the Prins and the carnival celebrations at GEWIS, in Lampegat and in Mestreech. Some of you might remember our theater workshops

from the past. The Mathematics or Computer Science lecture given in the Limburgian language, or 't kleintje bij Hubble' after the GELIMBO quiz.

For us, all these moments will remain unforgettable and close to our hearts. Not only because it was so fun organizing these things, but especially because it has been so much fun to do it with, and for you.

Carnaval and the Dieszitting wouldn't have been so great without the Princes of GEWIS. Without our other fraternities or the board doing a pre-show, without the BAC pouring drinks, or without you all, attending those activities. All of the activities wouldn't have been so great without you all, and all previous generations of GEWIS since 2006, attending them and supporting us in the organization.

And since we have expressed our desire to get in 'rest' as a fraternity during last GMM, all your reactions have moved us a lot. Many kind words and gestures from Prinsen, fraternities, committees, boards and members. A group of people that said: "We can't let carnaval leave from our traditions" and brought forward an initiative to keep the tradition of having a carnival celebration at GEWIS in honour.

After today, we hope to remain a small place in the heart of GEWIS. That after 16 years, we have managed to bring some Limburgian culture into the culture of GEWIS as well.

For now, we will remain a great group of friends, that will keep on doing great internal activities, and will cherish the moments we have had with all of you.

We hope you experienced our Limburgian initiatives with admiration and honour.

With a southern greet, thank you all so much.

## DOOD – GELIMBO

[Verse 1]

We zijn een dispuut van 16, horen bij GEWIS  
We houden van carnaval, van vlaai en van een quiz  
En hebben we op een borrel, Schrobbeleer voor onze bek  
Dan schreeuwen we, "TERING TIETEN", maar dat gaat nu weg

[Chorus]

Want wij zijn dood, zo dood  
We zijn dooierder dan ooit  
Volg je de Babbel, weet je precies wat er speelt  
En daarom willen we graag dat je dit leed met ons deelt  
Ja, wij zijn dood, zo dood  
We zijn dooierder dan ooit  
En waar we voor stonden, al sinds 2006  
Dat kun je echt niet vervangen, ook al doe je je best  
Ja, wij zijn dood

[Verse 2]

Als je een Prins tegenkomt dan heeft die altijd plezier  
Met veren, met mantel, met scepter en bier  
En WPF1, die weet precies hoe het hoort  
Ze kozen alle Prinsen uit, maar geven nu die taak door  
Stoppen is kut, het doet ons veel pijn  
Dus wat fijn om te weten dat er nieuwe opties zijn  
Want elk ander dispuut wil onze plek aan de muur  
Dus stuur snel je mail, dan beslist het bestuur

[Chorus]

Ja, wij zijn dood, zo dood  
We zijn dooierder dan ooit  
We gaan eruit met een knal en dat wordt gewaardeerd  
Dus beslis voor jezelf of je daar iets van leert  
Ja, wij zijn dood

[Verse 3]

Deel van ons is hetero, maar het zit ze niet mee  
Want heel de vereniging denkt, we zijn gay  
Maar helaas, zo kun je ons niet kleineren  
Je mag je homofobie ergens anders parkeren  
Deze is voor jullie, het lied des leeuweriks

We doen het niet voor de likes of de clicks  
't nachtegaaltje zingt, "het is tijd voor pensioen"  
Dus we trekken ons terug, naar het vaderlands  
bronsgroen

[Bridge]

Ja we zijn dood, dood  
Maar nu wordt alles anders  
Ons dispuut gaat ten ruste, dus we doen nu niet meer mee  
Op onze verjaardag maakten we grapjes  
Met een liedje en een dansje  
En jullie lachten allemaal mee  
Men weet dat we houden van theater  
Met achteraf een mooie kerstsoiree  
Maar de voorstelling is over, het doek valt  
Het was zo mooi, we zijn tevree

[Chorus]

We zijn dood, zo dood  
We zijn dooierder dan ooit  
Het is voorbij nu, maar bedankt aan ons publiek  
We gingen zo goed, maar hebben te hard gepiekt  
Ja, wij zijn dood, zo dood  
We zijn dooierder dan ooit  
En we wilden aspi's wenken, maar de timing zat niet mee  
Nu kunnen wij alleen nog denken aan een tijd van lang gelee'

[Drop]

Nu zijn we dood  
Nu zijn we dood

[Outro]

Dood



*Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via [inf.gewis.nl](http://inf.gewis.nl).*

*\*During a statistical learning theory lecture\**

**Vincent E.:** "What does the pi mean?"

**Rui Castro:** "3.1415"

**Max O.:** "Sorry ik ben niet zo goed in trio's"

**Samuel:** "I would like all of your attention.. Koen heb je 'm nou gevouwen?!"

**Niek (tijdens 30 Seconds):** "Wat is de slogan van onze hoofdstad?"

**Cas:** "Eindhoven de gekste"

**Sven tegen Sanne:** "Is het dan dat je bij GELIMBO gaat en homo wordt en dat je bij ATHENA gaat omdat je al homo bent?"

**Bartjan tegen de nummer 7 van 40:** "Ik wil graag met 40 en 41 de laatste lustrumbiertjes opdrinken."

**Rink:** "Dan moet je er 14, hè?"

**Bartjan:** "Wacht, zijn jullie met 7?"

**Bartjan H.:** "Voordat ik aan kinderen zit vraag ik het wel even aan Rink."

**Ollie:** "Rink, ben jij het vriendje van Naomi?"

**Rink:** "Nee, hélaas."

**Rens:** "Hoe jonger, hoe meer ik er mee vibe."

*\*Lizzy explaining how to pronounce something in Greek\**

**Lizzy:** "No.. it's like meth"

*\*Wietske schrijft brak / moe een email naar eerstejaars Inge\**

**Wietske:** "Hoi Wietske, ... Met vriendelijke groet, Wietske de Bondt"

**Samuel tegen Jasper:** "Is jouw vriendin nog single?"

**Lora having trouble with InDesign:** "Can you please be white"

*\*Noem zoveel mogelijk schrijvers\**

**Ciska:** "Noem ten minste de grootste drie van de Nederlandse literatuur"

**Martijn:** "Carry Slee"

**Sjaars M.:** "The girl chose tails, so you get head"

**Roy talking about extra money spent during BAC excursion:** "So we had to spend about 200 euros more on parking, which was not really the fault of Russia."

**Jelte (tijdens de ALV):** "Oooohhh GEWISKI, omdat ze gaan skiën! Ik dacht eerst dat ze gewoon whisky gingen drinken ofzo."

**Frederik O.:** "Ja, ik heb de assignment niet gelezen. We hebben de taken verdeeld: Robert heeft de assignment gelezen en ik heb hem gemaakt."

**Arend:** "Wil je dieper, wil je verder?"

**Sanne:** "Tabaksvervanger? Is dat de tofu van de tabak?"

**Rink:** "Heeft Samuel die RAM opgeruimd? Niet dat we het geheugen straks kwijt zijn."

**Leon:** "Ik ben mijn geheugen ook wel eens kwijt op vrijdagochtend."

**Ingmar tegen Samuel en Gijs:** "Zijn jullie nu een augurkenpot aan het leegdrinken?"

**Naomi:** "Kom op jongens ik wou hier geen natte poes van maken"

**Sam:** "Als er een schaap over de dam is"

**Ollie:** "Dan rent de rest weg"

**Jeroen:** "Jezus snappt niet hoe een penis werkt"

**Liselotte:** "Mogen wij de "we" van stampot?"

**Sven ruikt aan wijn:** "proeft naar kurk"

**Roy over alle troep op de keukentafel:** "Waarom staat die ice er tussen?"

**Robin van D.:** "Ik ben geen moslim, denk ik."

**Leon tegen Bartjan:** "Jij komt uit België, vertel eens wat leuke feitjes over Frankrijk"

**Alexandra:** "Dat worstje was goed op smaak, en ik kan het weten!"

**Wim die wiskunde studeert:** "Ik vind het eigenlijk wel fijn als een vak niet zoveel wiskunde heeft"

**Sanne:** "Ik ben op donderdagmiddag om 17:00 zonder bier echt geen sociaal wezen"

**Celine op de naborrel:** "Waarom zit overal alcohol in?"

*\*Physical aspects of digital security\**

**Frederik O.:** "Ik heb thuis nog een oplader waarmee ik iemands kop kan inslaan."

**Sjoerd:** "Ik kan niet stelen, niet liegen, ..."

**Tim:** "Je kan niet praten."

**Ollie:** "Dus dan moet ik ook nog met rechts?"

**Praeses Oosterholt:** "anti 'Vo"

**Job zit de risicoanalyse voor intro in te vullen:** "Denk je dat er overcrowding gaat zijn?"

**Daan:** "Denk je dat of doe je dat?"

*\*Arend vertelt een verhaal over Pythagorisme\**

**Tessa:** "Volgens wikipedia wordt het beschreven als een sekte waar religie en wiskunde hand in hand

gingen."

**Thijmen:** "Dat klinkt als GEWIS."

**Randy:** "It's so weird. Once you read the lecture notes you actually understand what the question says!"

**Frederik:** "Nee jij bent niet zo lang, jij bent maar 1.84 volgens je Bumble"

**Wietske:** "Of het is Wouter met een pistool tegen het hoofd van Alexandra aan"

**Vinz:** "Dan is het sowieso goed, oh nee wacht"

**Lucas:** "Ik kom hier voor m'n plezier"

**Ruben:** "Wat een kut idee, ik kom hier voor een schreeuwende Jasper"

**Jasper:** "BAM!!!!"

**Tessa:** "Ja Euler, van de Euclidian distance"

**Daan:** "Jij krielt mijn bolletje"

**Liselotte S.:** "Een kerk is een soort van Cantus zonder bier"

**Lotte:** "Hoe kwam je daarin?"

**Pim:** "Ctrl + Y"

**Lotte:** "Met de Griekse Y?"

**Pim:** "Nee met de lange ij."

### Rectificatie

In Supremum 54.2 werd de volgende infima gepubliceerd:

**Anne van den E.:** "Waarom zoen je nou weer met een Jorn?"

**Leon V.:** "Ik wist z'n naam niet."

**Anne van den E.:** "Oh, dan is het goed"

**Sanne de W.:** "Jorn is kaal!"

Jorn heeft ons gevraagd om te rectificeren dat hij niet kaal is, hooguit donzig. Bij deze Jorn!

## COMMITTEES & FRATERNITIES

**G**EWIS is built on top of committees. Besides, Study Association GEWIS has several fraternities which contribute to the atmosphere and organize activities.

Find out more at: [www.gewis.nl/association](http://www.gewis.nl/association).

### FRATERNITIES

**ATHENA**  
ATHENA



**B.O.O.M.**

Buitenplezier Op Onze Manier

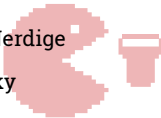


**Défi**  
Défi



**GEPWNAGE**

GEWIS Plant Weer Nerdige  
Activiteiten en Geeky  
Evenementen



**I.V.V**

In Vino Veritas



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ApplicatieBeheer Commissie

**AC**

Activiteiten Commissie

**AVICO**

Audio- en VideoCommissie

**BAC**

BAr Commissie

**C4**

Corporate Communication and  
Contact Committee

**CBC**

Computer Beheer Commissie

**CC**

CarnavalsCommissie

**FYC23-0 50/50**

First Year Committee

**FYC23-1 DeBugKing**

First Year Committee

**FYC23-2 De Klok Blok**

First Year Committee

**FYC23-3 AAlgora**

First Year Committee

**FYC23-4 Amplify**

First Year Committee

**GEBALLMERPIEK**

GEWIS'sers Ervaren BALLen MEt

Rigoreuze Precisie In

Excentrieke Kups

**GEBEP**

GEWIS Borrows Euler's Proofs

**GEBEUN**

GEWIS'ers Beunen Enkele

Unieke Nuttigheden

**GEDWAAL**

GEWIS'ers Dwalen Waar

Anderen Anders Lopen

**GEFLITST**

GEWIS Fotografeert Leden In

Toffe Situaties, Toch?

**GEHACK**

GEWIS Ervaart Het

Algoritmisch Code Kloppen

**GELIFT**

GEWIS'ers Liften Ieder

Fantastisch Traject

**GEPLONSDT**

GEWIS'ers Producing Lots Of

New Stories with Delft and

Twente

**GESPORT**

GEWIS sport

**GETAART**

GEWIS'sers Eten TAART

**GEWISKI**

GEWISers Ervaren Wintersport

In Super Koele Ijstijden

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GEWIS Zeilt Weer Een Meter

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**ODC**

Ouderdagcommissie

**SNIC 2022**

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StudentenRaad

**SUPREMUM**

Supremumcommissie

**TRAIN**

Training

**YBC22**

YearBook Committee 2022

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### SUPREMUM

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