

Hjertelig velkommen til FANS nettverksmøte Programmering

21. oktober

Pia Skare Rønnevik, Customer Success Manager, SAS Institute
pia.roennevik@sas.com

The agenda

- **13.00 - 13.10 Velkommen og info fra FANS/Education**
- **13.10 - 13.30 Akademisk kvarter - fra student til talent**
- **13.30 - 14.00 Proc network**
The presentation is held by Hans De Wit, Telenor. (in English)
- **14.10 - 14.40 Makro programmering for å styre prosesser i Viya**
Presentasjonen holdes av Trond Holmen, SAS Institute.
- **14.40-14.50 Konkurransen**
- **14.50 - 15.20 Custom transformation i DI Studio vs. Custom Step i SAS Studio**
Presentasjonen holdes av Tom Arne Orthe, SAS Institute.
- **15.20-15.30 Pause**
- **15.30 - 16.00 Deep learning i Python med SAS DLPy: Hva kan vi bruke det til og hvorfor?**

Presentasjonen holdes av Ina Conrado, SAS Institute.

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FANS Network Meeting & Platform Overview

- 14/9 FANS | Anti-Money Laundering Teams 8.30-11.30
- 16/9 SAS | Platform Overview Teams 13-16
- 23/9 FANS | Data Science (Nordic) Teams 9.30-12.30
- 29/9 FANS | Platform Teams 13-16
- 30/9 FANS | Analytics Teams 13-16
- 20/10 FANS | VA Teams 13-16
- 21/10 FANS | Programming Teams 13-16
- 28/10 FANS | CI (Nordic) Teams 12-14
- 28/10 FANS | Intro. til CI (Nordic) Teams 15-16
- 23/11 FANS | VA (Nordic) Teams 13-16
- 30/11 FANS | Data Science (Nordic) Teams 13-16
- 1/12 FANS | Cross Topics Teams 13-16
- 9/12 FANS | Platform Overview Teams 13-16
- 14/12 FANS | Intro. til CI (Nordic) Teams 13-14

[LINK](#)



Thanks to those who are presenting in a Network Meeting



Meet the Expert

Book a 30-minute 1:1 session with a SAS Expert

Topics:

- SAS Code - Trouble-shooting & Optimising
- SAS Customer Intelligence 360
- SAS Visual Analytics 8.5
- CAS Programming in SAS Viya
- SAS 9 Platform Administration
- SAS Data Management and DI Studio
- SAS Enterprise Guide
- SAS Studio
- SAS Analytics, AI and Machine Learning
- SAS Architecture & Administration

[Learn more and register](#)









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-  **Become a SAS Data Ninja**
-  **Fast Track Your Viya Adoption**
-  **Become a Viya Admin Superhero**
-  **The Art of Data Visualization**
-  **Next Gen AML & Transaction Monitoring**
-  **SAS Starter Kit**

<https://www.sas.com/sas/offers/choose-your-sas-journey.html?referid=CS1488>

Artificial Intelligence Game - Play your way towards an AI strategy!



- There is a game master for each country.
- It will be used for one individual customer or between customer in a FANS setup.



Keep yourself updated!

- The SAS documentation can be found [here](#).
- [SAS-L](#), the place for in-depth discussions online.
- [SASENSEI](#), an online game where you get to test your SAS knowledge.
- [Blogs](#), a great way to stay up to date on various fields.
- Github, where you can find SAS code that people share - recommend [Roger DeAngelis](#).
- Articles about SAS can be found here [Lexjansen](#).
- SAS User Groups, many regional user groups - recommend [The Boston Area SAS User Groups](#).
- [SAS Global Support Community](#), where you can ask questions and join discussions
- [SAS Nordic Communities](#)



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Proceedings from SAS Global Forum 2021

Review over 100 technical presentations and tutorials from SAS users and experts! They include written how-to content, demo videos and code. And they cover all SAS topics including analytics, administration, programming, data visualization and more!

[See all of the 2021 papers](#)

Making SAS® Tables Smaller and Faster Without Data...



by  cp18010 on 06-28-2021

Programming

0

COMMENTS

3536

VIEWS

Visualizing Your Data with SG Procedures



by  MicheleEnsor on 07-19-2021 • Latest post on 06-16-2021 by  Daryl

Data Visualization

Programming

SAS Presents

Tutorial

1

COMMENT

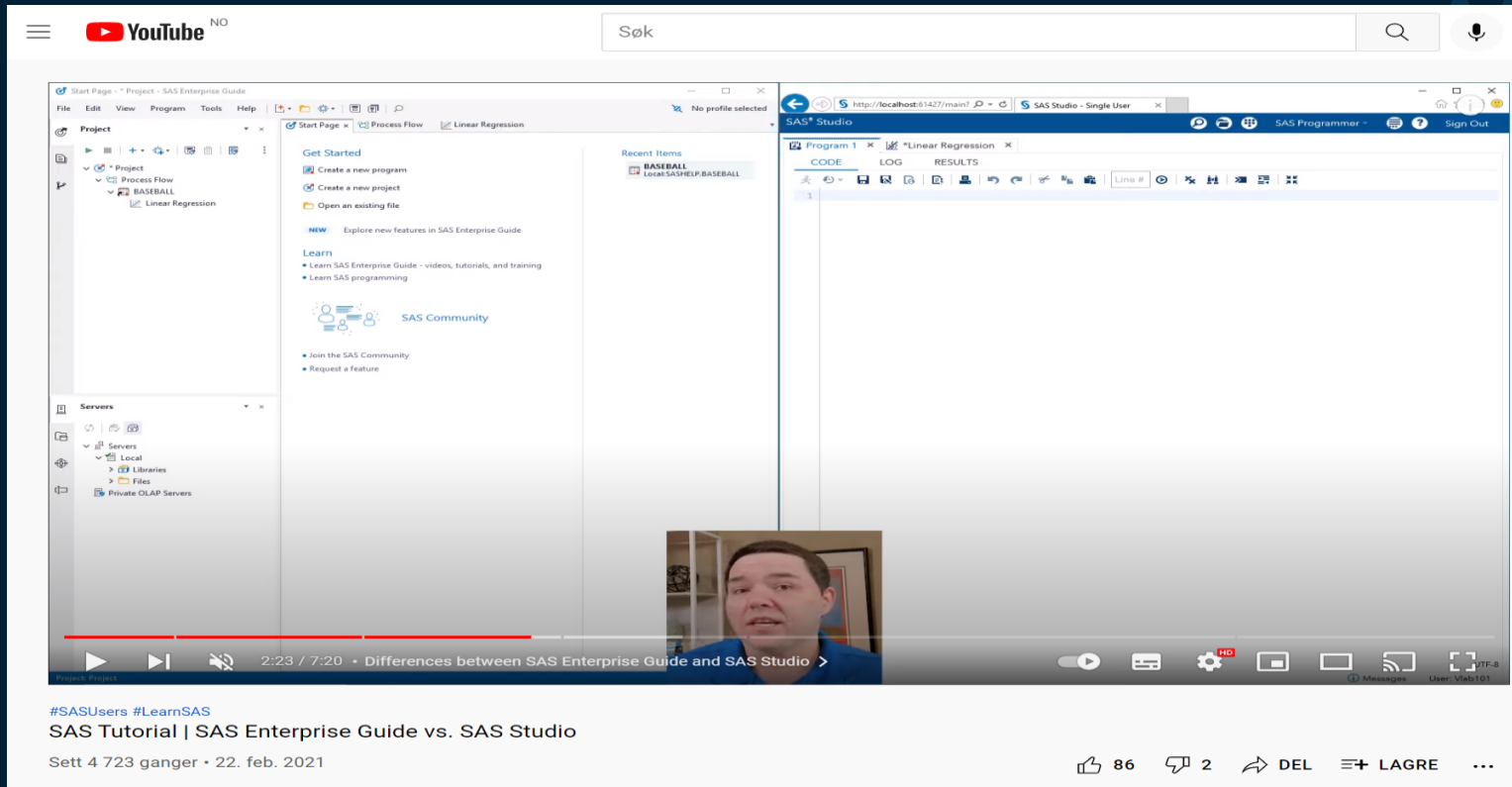
3523

VIEWS

<https://communities.sas.com/t5/SAS-Global-Forum-Proceedings/tkb-p/proceedings-2021>



Want to learn more about the difference between SAS Enterprise Guide vs. SAS Studio



#SASUsers #LearnSAS
SAS Tutorial | SAS Enterprise Guide vs. SAS Studio
Sett 4 723 ganger • 22. feb. 2021

86 2 DEL LAGRE ...

<https://www.youtube.com/watch?v=C7E4TTATfgw>

Want to learn more about Advanced Functions and Perl Regular Expressions!

- *A Survey of Some of the Most Useful SAS Functions*, by Ron Cody:
<https://support.sas.com/resources/papers/proceedings12/241-2012.pdf>
- *Don't Be a SAS® Dinosaur: Modernizing Programs with Base SAS 9.2 Enhancements*, by Warren Repole Jr.:
<https://support.sas.com/resources/papers/proceedings09/143-2009.pdf>
- *Unstructured Data Analysis: Entity Resolution and Regular Expressions in SAS*, by Matthew Windham:
https://support.sas.com/content/dam/SAS/support/en/books/unstructured-data-analysis/68578_excerpt.pdf
- *An Introduction to Perl Regular Expressions in SAS 9*, by Ron Cody and Robert Wood Johnson:
<https://support.sas.com/resources/papers/proceedings/proceedings/sugi29/265-29.pdf>

Want to learn more about Arrays!

- *Examples of Array Processing, SAS documentation:*
https://go.documentation.sas.com/doc/en/pgmsascdc/9.4_3.5/lrcon/p1avz8shjwggqorn1royv9tnys89y.htm
- *Arrays Made Easy: An Introduction to Arrays and Array Processing, by Teresa Schudrowitz :*
http://www.sys-seminar.com/WISUG_Presentations/Arrays_Made_Easy.pdf
- *Adventures in Arrays: A Beginning Tutorial, by Jane Stroupe:*
https://support.sas.com/content/dam/SAS/support/en/books/unstructured-data-analysis/68578_excerpt.pdf
- *Using Arrays in SAS Programming, Technical Paper:*
https://support.sas.com/resources/papers/97529_Using_Arrays_in_SAS_Programming.pdf

Want to learn more about Hash Objects!

- *Data Step Hash Objects as Programming Tools*, by Paul M. Dorfman and FL Koen Vyverman:
https://www.beoptimized.be/pdf/SUGI30_236.pdf
- *SAS® Hash Object Programming Made Easy*, by Michele M. Burlew:
<https://support.sas.com/publishing/pubcat/chaps/62230.pdf>
- *Data Management Solutions Using SAS Hash Table Operations: A Business Intelligence Case Study*, by Paul Dorfman and Don Henderson:
<https://www.amazon.com/Management-Solutions-Using-Table-Operations/dp/1629601438>
- *Hash Object Tip Sheet*:
<https://support.sas.com/content/dam/SAS/support/en/products-solutions/base-sas/tip-sheets/hash-tip-sheet.pdf>

Nordic SAS Community advent calendar 2021 – Juletips

#SAS Juletip

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<https://communities.sas.com/t5/tag/juletip2020/tg-p/board-id/nordic-group>

Juletip #5 How to add 0's before a character variable

So first, a simple example on how to use the REPEAT function:

```
data temp;
  x=REPEAT('Merry Christmas ', 1);
  put x;
run;
```

The REPEAT function returns a character value that consists of the first argument repeated $n+1$ time, hence this output:

Obs	x
1	Merry Christmas Merry Christmas

The second demonstration shows an example on how to add 0's before a numeric variable 'y':

```
data numeric;
  input x y;
  cards;
7896 44
5431 243
8934 1
6541 675
;
run;

data temp;
  set numeric;
  yy = put(y, z5.);
run;
```

The z5. is adding 'k' zeros before the variable y, so the total length of the new variable 'yy' is 5. The 'k' is calculated as 5 - number of values in the variable 'y', and gives us the following results:

Obs	x	y	yy
1	7896	44	00044
2	5431	243	00243
3	8934	1	00001
4	6541	675	00675

The Zw.d format doesn't work on a character variable, so the last example shows how to add 0's before a character variable 'y':

```
data character;
  input x y$;
  cards;
7896 A44
5431 A243
8934 A1
6541 A675
;
run;

data temp;
  set character;
  yy = cats(REPEAT('0',5-length(y)-1), y);
run;
```

The CATS function concatenates 0's with the variable 'y', while the REPEAT function calculates the repeat of 0's. The repeat of 0's is calculated as: 5 - number of letters and values in the variable y - 1. This SAS code gives the following output:

Obs	x	y	yy
1	7896	A44	00A44
2	5431	A243	0A243
3	8934	A1	000A1
4	6541	A675	0A675

FANS Competition



FANS board Norway

2020-2021

- Chairman of the board:
 - Nils Erik Fossum, Posten Norge
- Members of the board:
 - Viggo Skar, Oslo universitetssykehus
 - Hans de Wit, Telenor Norge
 - Anne Wike, Verdipapirsentralen
- Deputy:
 - Tore Borge, Storebrand
- Representatives from SAS Institute:
 - Pia Rønnevik (alt. Petter Dybvig/Vegard Hansen)
- Operating partner, SAS Institute:
 - Bettina Stibolt
 - Kaja Emilie Stræte

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FANS partners

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CGI

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FCG

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consulting group

INFOTREK

 **KMD**

knowit

FANS Network Meeting 21. oktober 2021

SAS Education



Ragnhild Skuland





Customer Training Advisor

ragnhild.skuland@sas.com

Mobile: 915 75 960

Norway course site: https://www.sas.com/no_no/training/overview.html

Hvilket kurs passer til?

Innlegg	Presentatør	Lær mer på kurs!
13:30 - 14:00 Proc network	Hans De Wit, Telenor	Network Analysis and Network Optimization in SAS Viya 
14:10 - 14:40 Makro programming for å styre prosesser i Viya	Trond	SAS Macro Language 1: Essential  SAS Macro Language 2: Advanced 
14:40 - 15:10 Custom transformation i DI Studio vs. Custom Step i SAS Studio	Tom Arne	SAS Data Management in SAS Viya 4: Fast Track
15:30 - 16:00 Deep learning i Python med SAS DLPy: Hva kan vi bruke det til og hvorfor?	Ina	Deep Learning Using SAS Software 

Fysiske klasseromskurs +
hybrid via Teams



Live Web med instruktør
via Zoom



E-læringskurs:
SAS Learning Subscription



+ Video Tutorials




SAS Learning Conference

The Power of Connectivity

- ✓ 18. november
- ✓ Virtuelt i 3 spor med 1-times sesjoner. Du velger fritt “der og da”!
- ✓ 1500,- pr. deltager - FANS-rabatt 25% = 1125,-

Time	Software & Technology	Advanced Programming	Practical Insights
09 am CET	Welcome & Key Note: Gloria J. Miller, maxmetrics		
10 am CET	Enhance Your SAS® Visual Analytics Skills (Speaker: Mark Geldart)	Transitioning from SAS®9 to SAS® Viya® (Speaker: Ian Sedgwick)	Protecting the Value of Your Machine Learning Investment (Speaker: Gregoire de Lassence)
11 am CET	Using DevOps to Improve Collaboration, Testing, and Deployment in SAS® Viya® (Speaker: Paul van Mol)	Enhancing Your SAS® Code with the DS2 Procedure (Speaker: Hanna Fenianos)	Practical Tips and Tricks for SAS® Viya® Administrators (Speaker: Paul Scheenaart)
12 pm CET	Connecting Data in SAS® Data Integration Studio (Speaker: Jim Watson)	Go Beyond the Ordinary: Taking Full Advantage of SAS® Cloud Analytic Services Using CASL (Speakers: Bruno Müller/Peter Styliadis)	Operational, Streaming Analytics from Data Source to the Cloud (Speaker: Peter Pugh-Jones)
01 pm CET	Lunch break out sessions in local language		
02 pm CET	Leveraging SAS® Visual Analytics Reports Using SAS® Add-In for Microsoft Office (Speaker: Mary Harding)	Calling Python Functions from SAS® Using the FCMP Procedure (Speaker: Marty Hultgren)	SAS® 9.4 to SAS® Viya®: Snippets You Need to Know (Speaker: Judy Orr-Lawrence)
03 pm CET	Using SAS/ACCESS Libraries and Viya Data Connector CASLIBS in the Azure Cloud (Speaker: David Ghan)	Working with REST APIs in SAS® (Speaker: Mark Jordan)	An Introduction to ModelOps (Speaker: Peter Christie)
04 pm CET	Coding Productively in SAS® Enterprise Guide® 8 (Speaker: Chris Chan)	Creating Your Own Macro Functions (Speaker: Jim Simon)	Importing SAS® Enterprise Guide® Projects or SAS® Data Integration Studio Jobs to SAS® Viya® (Speaker: Su Chee Tay)



Education is a continual process,
it's like a bicycle... If you don't
pedal you don't go forward.

[George Weah](#)

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Academic Quarter – From Student to Talent

Information from SAS Academic Program

FANS Network meeting – Programming
October 21th 2021

Vegard Hansen,
SAS Academic Program Manager
E-mail: vegard.hansen@sas.com
Phone: +47 977 44 445

SAS Academic Programs

Bridging the analytics talent gap



SAS Resources for Teaching and Learning Provided to Faculty



Build SAS Skill and Usage Among Students



Connect Students with SAS Customers for Hiring

SAS Software Certified Young Professionals (SCYP)



Build SAS Skill and Usage
Among Students



SAS® Software Certified Young Professionals

[Sign Up & Get Started](#)

SAS® Software Certified Young Professionals

Your Future Starts Here

[Sign Up & Get Started](#)

The demand for individuals with SAS knowledge and expertise is growing in organizations globally. To help close the analytics skills gap, we are offering students access to software, training for free. Participation in certification exams is possible at a discounted fee.

Join students from multiple countries in the SAS Software Certified Young Professionals program to get support and guidance from expert instructors while you learn. Once you are certified, we will connect you with organisations looking for young SAS Certified professionals.

If you are not sure that **SCYP** is right for you at this moment, once you sign-up, you can try our **free data literacy course** which will give you an idea of what to expect if you choose to continue learning.

SAS® Software Certified Young Professionals (SCYP)

SCYP offers you the possibility to get up to 5 different certificates

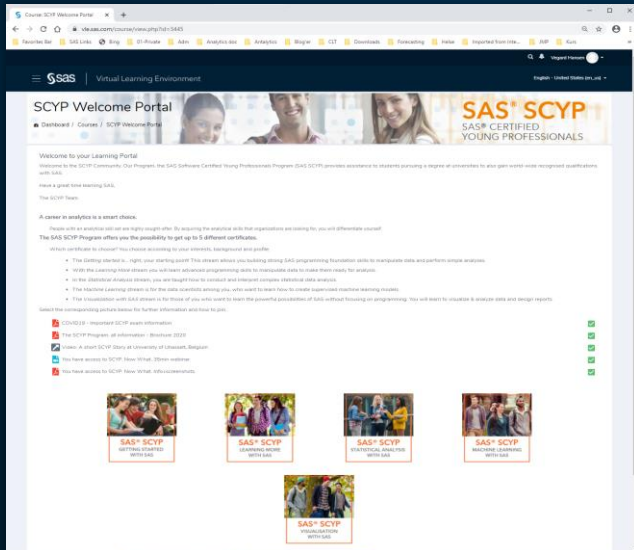
The **Getting started** is... right, your starting point! This stream allows you building strong SAS programming foundation skills to manipulate data and perform simple analyses.

With the **Learning More** stream you will learn advanced skills to manipulate data to make them ready for analysis.

In the **Statistical Analysis** stream, you are taught how to conduct and interpret complex statistical data analysis.

The **Visualization with SAS** stream is for those of you who want to learn the powerful possibilities of SAS without focusing on programming. You will learn to visualize & analyze data and design reports

The **Machine Learning** stream is for the data scientists among you, who want to learn how to create supervised machine learning models.



SAS Software Certified Young Professionals – SCYP

SAS® Certified Young Professionals

Get Started Today



Free SAS software for academic, noncommercial use. An interactive, online community. Free access to superior training and documentation. Free registration for the certification exam.
Gain the analytical skills you need to secure your future.

Software for Learning

Free

SAS OnDemand

SAS Studio
Enterprise Guide
Enterprise Miner
Forecast Server
Text Miner

AWS hosted
5gb data upload

Free

Viya for Learners

Viya 3.5
VDMML
Python & R
JupyterLab

SAS hosted
No data upload
Available through eLearning,
Coursera, and Universities

2021 Students' Segmentation

Job focus

Data
Engineer

Data
Analyst

Business
Analyst

Data
Scientist

Open door : SAS VA on V4L

Base Programming
(BA)
Advanced
Programming (AP)

Statistical Business
Analyst (SBA)

Visual Modeling using
SAS® VS
Or SAS VA

Machine Learning
Using SAS Viya





Connect Students with SAS
Customers

Three-way Collaborations for Talent Development



- Articulate skills requirements
- Curriculum Inputs
- Industrial Research Projects
- Student Projects & Internships
- Guest Lectures
- Financial Support for:
 - Sustainability Funding
 - Bursaries
 - Industrial Research



- Analytics Software
- Training Curriculum
- Technical Workshops
- Certifications
- Curriculum Development



- Specialised curriculum
- Sustained Skills Pipeline
- Industry Model Validation
- Independent Research Service
- Industry Regulation Interpretation
- Knowledge & Innovation Hub
- New Technology Scan
- Thought-Leadership

SAS Norway Internship Program – Talent Connecting

What – The Internship

- Internship period of (least) 10 weeks – autumn
- Students should work with issues that have both academic and industrial relevance and include components of SAS Software.
- Fulltime (100%) period.
- The Internship is a mandatory practice period in the study (non-paid), part of the curriculum and non-paid.
- As part of the study, students will summarize the results after completing the Internship - practice report with presentation.
- 6 students in 2020, 7 students in 2021
- 3 use cases each year

Qualifications:

- *Completed at least one SAS e-learning course through SAS Software Certified Young Professionals (SCYP).*
- Have an analytical mindset and are a passionate problem solver.
- Curious about technology, analytics and how things work.
- Ready to tackle difficult challenges, Service-minded and able to deliver excellent customer service with confidence.
- Willing to ask for help and share knowledge, willing to learn new things and can work both independently and goal-oriented and be part of a team.
- Since you probably will be working with clients it is important that you are outgoing and business-focused.



- Articulate skills requirements
- Curriculum Inputs
- Industrial Research Projects
- Student Projects & Internships
- Guest Lectures
- Financial Support for:
 - Internship Funding
 - Bursaries
 - Industrial Research



- Analytics Software
- Training Curriculum
- Technical Workshops
- Certifications
- Curriculum Development



- Specialised curriculum
- Sustained Skills Pipeline
- Industry Model Validation
- Independent Research Service
- Industry Regulation Interpretation
- Knowledge & Innovation Hub
- New Technology Scan
- Thought Leadership



SAS Norway Internship Program – Talent Connecting

Why – SAS involvement, obligations and responsibility

- Part of the partnership with the MSc Business Analytics program at BI Business School in Oslo
- The Intention and purpose - Perform master and bachelor students' best practice of strategic and tactical methods and models in analytics; How to impact organizations for analytics success by real case learning formats.
- Consist three parts; Tailored services as integrated part of curriculum, access to SAS Software and e-learning courses and a volunteer part - possibility to qualify for Internships, Master Thesis, etc..
- It is SAS that enters into an agreement, with a 'Learning Contract' - agreement between BI Business School, the Students and customers.
- Find tasks/projects/cases that which motivates the students, give them a good (real) work experience as junior consultants, which at the same time has business value both for the customer and for SAS.
- Provide the necessary training and follow-up of the students along the way, in the form of courses, access to mentors and the like.
- Arrange administratively for the Internship period



SAS Norway Internship Program – Talent Connecting

How – Working on real business cases for real customers

- The students are part of SAS' daily work and work as junior consultants on real cases - being part of the “SAS family”.
- The students work in teams – in pairs – with at least one SAS mentor (advisors) per team/use case.
- Before the Internship period starts – use cases are selected and qualified and seen as important for the clients and for SAS.
- The first days (week) of their Internship there is an onboarding to prepare the students for the work – more SAS learning, learn about SAS culture, intro to the customer and case.
- The Internship is finalized by presenting the results of their work to customer and SAS resources - Often to people in current management.

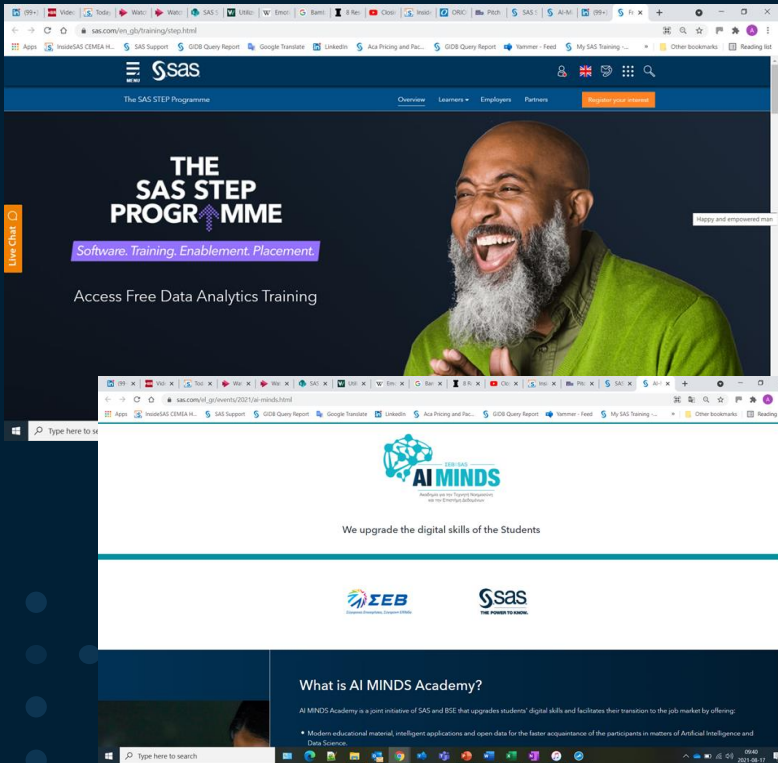


Example - Internship 2021 High Level Plan and activities



Bridging the gap between business and academia

Example – Insurance Company



- Persona: Ms S., Academic Relations, HR
- The company has an internship program, apprenticeships and offers dual study
- Looking for talents to fill their IT pipeline
- Although the brand is well known the students, they are looking for are not aware of the wide possibilities to work in the IT of an insurance
- They are not seeking for many SAS skilled students
- Data Science skills would fit better
- Their headquarter's location is not very attractive for young people

Possible support from SAS Academic Program:

- Train internship students online in (Basic Data Science) Skills before they start (SAS SCYP)
- Identify target universities and programs nearby where SAS is taught
- Establish connection to the existing collaboration between company and university
- Organize presentation / event together with company to attract students

Talent Connection: Bridging the gap between business and academia

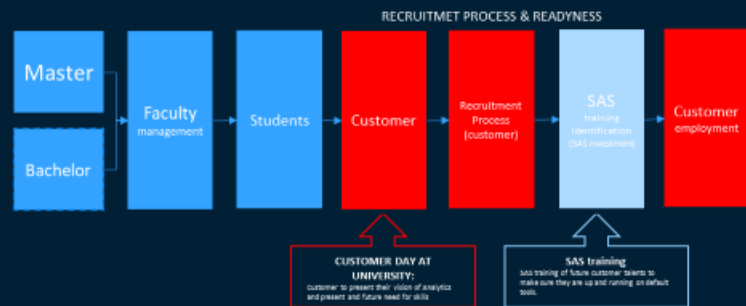
Connect you with our university network and develop new ones together

- For internships, thesis, etc.
- For new hires (full-time, part-time, student engagement)
 - identify & match by industry or topic

Upskill student internships and trainees:

- Offer online upskilling in techniques (i.e. Data Science Basics, programming, etc.)
- Ideally before interns start so they can be used differently in the company
- About methods and skills, not necessarily about SAS
- Using SCYP/Academic HUB or a customized mix of our offerings

Customer talent acquisition process endorsed by SAS
- Customer need to be presented as a attractive learning institution for young talents

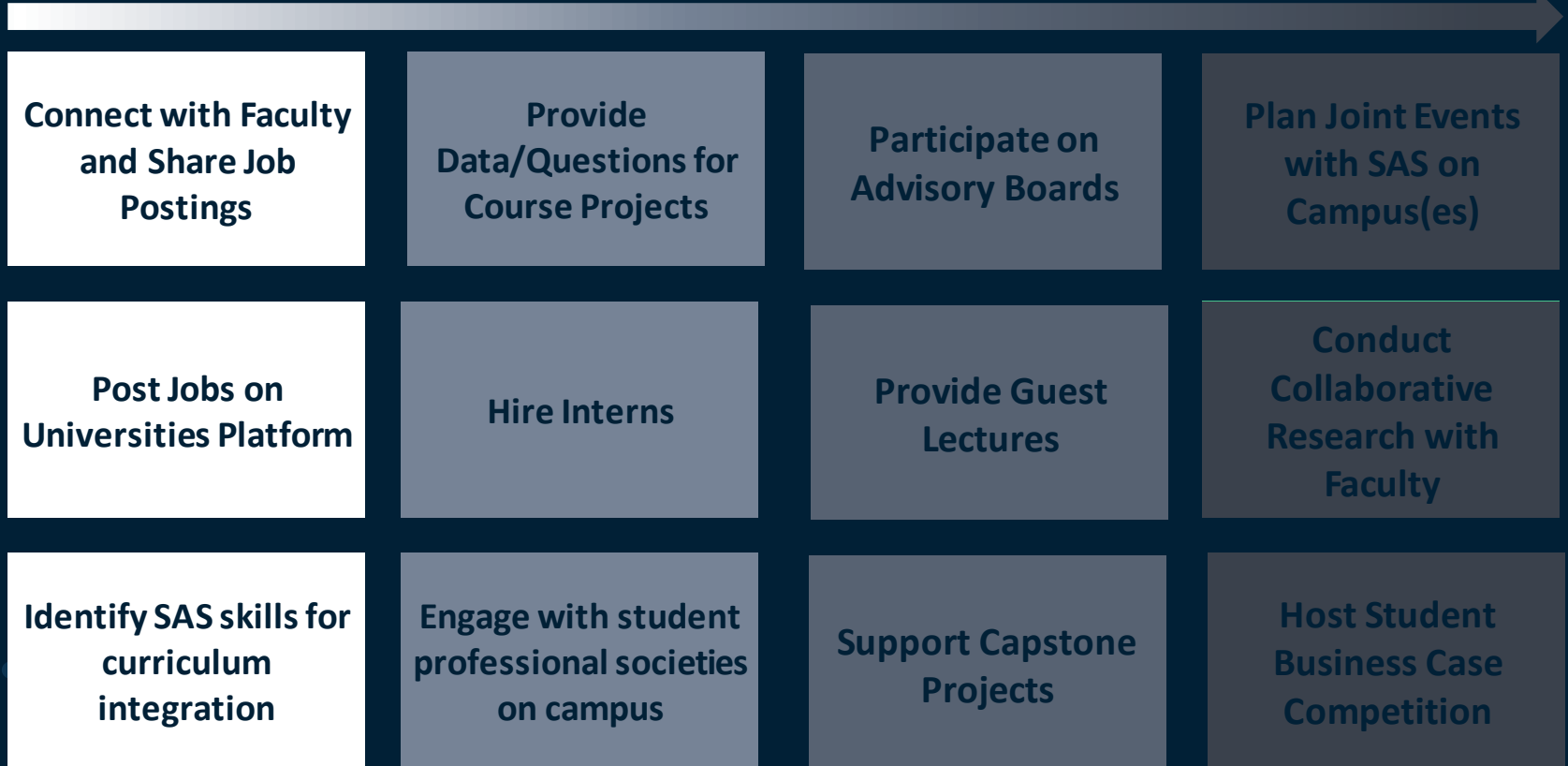


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SAS

SAS

Grow Academic Engagement



Some useful links / More information

- SAS for students (Nordic)
 - <https://www.facebook.com/SASforStudents/>
- Register for SCYP-program here
https://www.sas.com/sv_se/learn/certified-young-professionals.html
- SCYP community on facebook
 - www.facebook.com/sasscyp
- SAS Academic Programs
 - https://www.sas.com/sv_se/learn/academic-programs.html
- Documentation,
 - <https://support.sas.com>
- SAS Course on Coursera and LinkedIn Learning

You can read stories out there....

SAS Curiosity Forever

WE MAKE ANALYTICS
OUR CUSTOMERS'
MOST POWERFUL ALLY.

Erlend Bjorstad • 1st
Leading SAS Growth Initiatives | Strategic Partnering & Business Development ...
I invite you to take a moment to read this short article where #SASinterns turn data into insight for Widerøe. Personally I enjoyed to read about the opportunity Lorenz Eichhorn and Abhijeet Singh took to take a #SAS Young Professional certification (SCYP). Then to combine this knowledge together with their conceptual knowledge from BI Norwegian Business School to transform data to insight just in weeks. Really great work by #youngtalents aspiring for #datasciencecareers.

Widerøe is one of many clients which have been heavily impacted by #COVIDchallenges this year, and we are proud of these students both for their personal achievements and what they have learnt, but also for the actual business value they were able to contribute with in a challenging time for Widerøe. Great work, and best of luck on your Master thesis this spring which you are also writing about Widerøe.

Also a thank you to Widerøe and Nicolai Berg Johansen for your support to our #SASinterns program in partnership with BI Norwegian Business School

#mentorsmatter #mentoringmatters #analyticseconomy #growthmindset



From theory to practice: Our journey as interns at SAS Institute – as analytics consultants

Before the Internship Started

We are BI Norwegian Business School students of MSc in Business Analytics with a deep passion for data-driven analytics. What we learn about data science is the journey towards achieving three significant kinds of results: discovery, insight, and innovation. Data science has been an interdisciplinary field about processes and systems to extract knowledge or insights from data in various forms, either structured or unstructured, which is a continuation of some of the data analysis fields such as statistics, machine learning, data mining, and predictive analytics. Still, without the expertise of professionals who turn cutting-edge technology into actionable insights, Big Data is nothing. Now, more and more organizations are opening up their doors to big data and unlocking its potential—increasing the value of a data scientist who knows how to tease actionable insights out of gigabytes of data.

The Connection between academia and industry

Being Business Analytics students at BI, we had an opportunity to get SAS Software Certification Young Professionals (SAS SCYP) and then also to complete an internship at SAS Institute – the leader in analytics – and to work closely with their client Widerøe, the largest regional airline operating in the Nordic countries.

We were placed under the customer advisory department as Junior Analytic Consultants in Norway. The department is responsible for helping potential clients of SAS in determining which type of software package is best suited for them and also demonstrating the use of software in a use case.

Viktige lærdommer fra min dataanalyse praksis hos SAS

Over en periode på 10 uker, fra midten av august, hadde jeg den fantastiske muligheten til å være en del av SAS Institute Norway som en av deres analytics intern.

Dette var en stor mulighet til å tilegne seg viktig lærdom og nye erfaringer, og utbyttet overgikk forventningene. Denne erfaringen og muligheten ville jeg ikke hatt foruten om det akademiske samarbeidet mellom Handelshøyskolen BI og SAS Institute, og ikke minst innsatsen lagt inn av Vegard Hansen og hans team i SAS. Den første midtveisplassen på hvordan interenshipet ville utforme seg, ville også vise seg å være noe av hva jeg verdsette mest: gjennombrøken og arbeidet som var lagt ned for å sikre at jeg fikk hele opplevelsen flytende og behagelig.

Mitt prosjekt

Prosjektet jeg ble tildelt var et proof-of-value prosjekt for Norges Fotballforbund (NFF). NFF har en egen avdeling for breiddefotballen, som ønsket å ta deres analyser til det neste nivået. I Norge er breiddefotballen et stort tema hvor stadig nye artikler blir skrevet og diskusjoner formet – så naturligvis baserte prosjektet seg på noe som er nærliggende for mange. Som en stor fotballinteressert selv, var det en glede å være involvert i prosjektet hvor vi bygget broen mellom SAS' analytiske evner og NFF's ønske om å maksimere deltakelse innenfor breiddefotballen.

For at en skal lykkes er det viktig med støttepillere og et nettverk rundt seg, noe som fort viste seg å være en del av SAS kulturen. Gjennom å tilegne oss mentor og sette oss på et team med representanter fra ulike avdelinger erfarte vi arbeidet som reitt og viktig, og ikke «bare et interenship».

- [Digi.no](#) (only in Norwegian unfortunately 😊)
- MSc students making real impact on lives and business' with SAS Analytics - [Erlend Bjorstad](#)
- My Data Analytics Internship Experience at SAS Norway - [Kashmeel Bisseru](#)
- Digitale kundeopplevelser (in Norwegian) - [Marius Karlsen](#)
- Creating personalized digital customer experiences - [Juan Manuel Ruiz Acosta](#)
- Lærdommer fra min dataanalyse praksis hos SAS (Norwegian) - [Joakim Martinsen](#)
- From theory to practice: Our journey as interns at SAS Institute – as analytics consultants - [Lorenz Eichhorn & Abhijeet Singh](#)





Questions?

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https://www.sas.com/no_no/learn/academic-programs.html