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SENTER FOR TVERRFAGLIG UTDANNING



Styremøte 2025-12-03

SENTER FOR FREMRAGENDE UTDANNING

Develop programs, methods, pedagogies and approaches for interdisciplinary education

Establish a **community and culture** for interdisciplinary teaching and learning

Vision: Become a national and international hub for the research-based integration of interdisciplinary competence in higher education

Disseminate methods and approaches to interdisciplinary education locally, nationally and internationally

Measure the impact of our activities and build a **research basis** for interdisciplinary teaching and learning

Team



Anders Malthe-Sørenssen
Professor of Physics, Faculty of Mathematics and Natural Science



Ella Idsøe
Professor of Psychology, Norwegian Center for Science Education



Anja Røyne
Senior Lecturer, Center for Teaching and Learning in STEM



Victoria Haynes
Center Coordinator



Molly Sutphen
Professor of Education, LINK Center for Teaching and Learning



Nikolai Czajkowski
Assoc. Prof. of Psychology, Faculty of Social Sciences



Cato Bjørkli
Assoc. Professor of Psychology, Faculty of Social Sciences



Cathrine Holst
Professor Humanities



Pål Antonsen
Professor Humanities



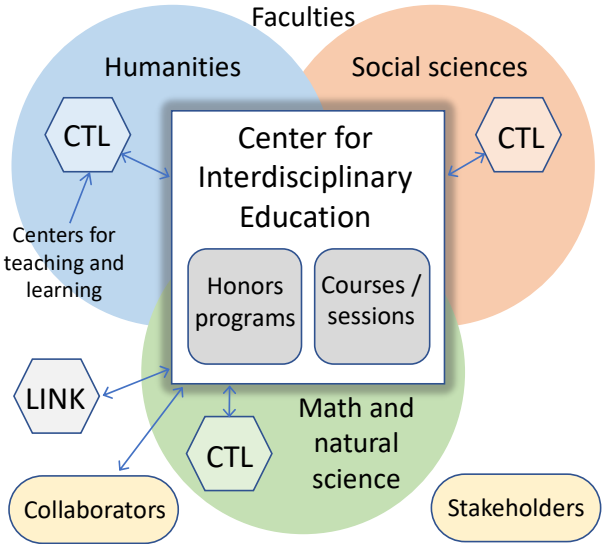
Mina Haaheim
Student, Honours program, Philosophy

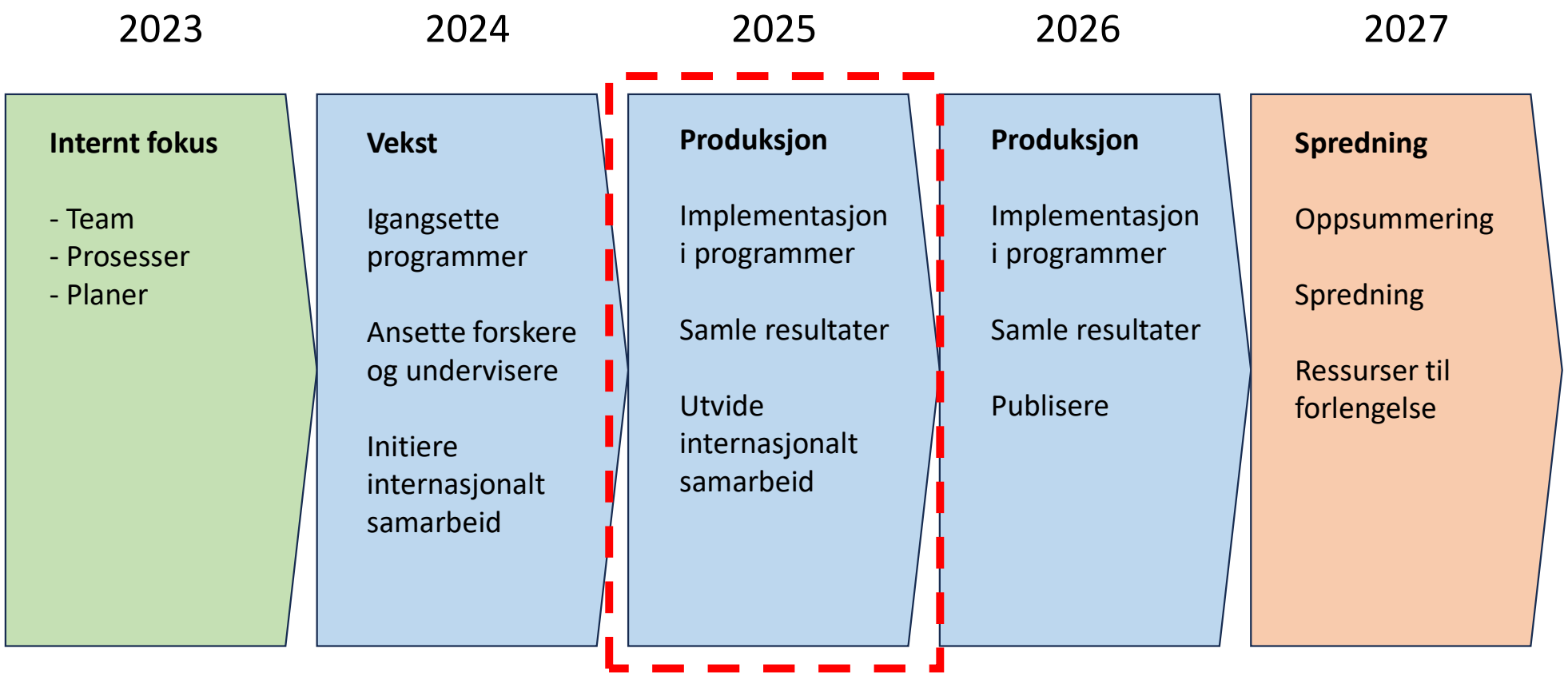


Julie Bjørnstad
Student, Honours program, Mathematics



Helene L. Bygnes
Student, Honours program, Political Science




2023
2024
2025
2026
2027
Internt fokus
- Team
- Prosesser
- Planer
Vekst
Igangsette programmer
Ansette forskere og undervisere
Initiere internasjonalt samarbeid
Produksjon
Implementasjon i programmer
Samle resultater
Utvide internasjonalt samarbeid
Produksjon
Implementasjon i programmer
Samle resultater
Publisere
Spredning
Oppsummering
Spredning
Ressurser til forlengelse

WP1: Develop programs, methods, pedagogies and approaches for interdisciplinary education

- Tverrfaglig verksted
  - Arrangert 2 verksteder i 2025
- Tverrfaglig fasilitator program
  - Fokus på sertifikater
  - FPØ
  - Andre ”kunder” for fasilitator-programmet?

WP2: Establish a community and culture for interdisciplinary teaching and learning

- Nettverk for admin ansatte
- Deltagelse i tverrfaglig-utdanner kurs i Nederland (Victoria og Nikolai)
- Kartlegging av tverrfaglig utdanning
- Definere tverrfaglighet og bygge språk for tverrfag utdanning
- Honours-konferanse 2025
- Sommerprosjekter 2025

Establish a community and culture for interdisciplinary teaching and learning

Supporting change

- Pedagogical advice
- Training
- Building community

Interdisciplinary facilitator program

Based on Learning Assistant model (UC-Boulder)

Three principles:
- Pedagogical training
- Regular meetings
- Teaching in active learning environments

Establish community of practice



Establish a community and culture for interdisciplinary teaching and learning

The interdisciplinary skills ladder



Leader:
Design workshop

Facilitator program:
educational design

Facilitator:
Facilitate workshop

Facilitator program:
pedagogies

Team member:
Participate in workshop

Develop theoretical framework

Build repertoire of approaches

WP3: Disseminate methods and approaches to interdisciplinary education

- Honours-konferanse i oktober 2025
- Sommerprosjekter 2025
  - Oversikt over tverrfaglige tilbud
  - Oversikt over styringsdokumenter
  - Oversikt over pensum i tverrfaglige emner

WP4: Measure the impact of our activities and build a **research basis** for interdisciplinary teaching and learning

- Intervjuer av ansatte og studenter
- Longitudinal studie
- Tverrfaglig fasilitator program
- Kvalitativ analyse med text embeddings
  - Literatur-analyse
  - Surveys
  - Intervjuer

Honours conference 2025



Michael O'Rourke, Professor of Philosophy and Director of the Toolbox Dialogue Initiative at Michigan State University, shared insights on interdisciplinary theory and communication in collaborative research.



Marca Wolfensberger, Professor of Transdisciplinary Collaboration in Education at Avans UAS and Chair of the European Honours Council, reflected on her pioneering work in honours education and the transformative power of talent development.



Machiel Keestra, Central Diversity Officer at the University of Amsterdam and past president of the Association for Interdisciplinary Studies, discussed embedding honours education and fostering diversity in academic culture.

Saturday 01.11.25 - Connecting thoughts

09:00 - 09:30	Opening day two, connecting thoughts	Room: EG
Student track	Academic track	
Toolbox workshop: Interdisciplinary communication by Michael O'Rourke, Michigan State University Time: 09:30 - 11:45 (including break) Room: EG This workshop will feature dialogue structured to facilitate communication across disciplines. Designed according to the Toolbox dialogue method, it will give participants an opportunity to experience an interdisciplinary education modality used extensively by the US National Science Foundation and NASA, among many others. Participants should enhance	**Workshop: Waddenlab, fieldtrip at sea and mud for honours students from all educations by Ron Weerheijm, Netherlands** Time: 09:30 - 10:30 Room: Tage Erlander 1 Waddenlab is an honours activity for students from all programmes and studies. Students prepare a session about the Wadden sea based on their own chosen theme that will be carried out during the sailing week in July, on the Wadden Sea, the water, an island or .... The central theme is: How do we keep the	**<u>Presentations: Teaching students</u>** Time: 09:30 - 10:30 Room: Tage Erlander 2 1) Motivational profiles among honours students *Elenor Kamans, Annegien Langeloo, Roorda, Vugteveen and Canrinus,The Netherlands* 2) Taking perspective to support personal growth *Langeloo, Zijlstra, Kamans*

Measure the impact of our activities and build a **research basis** for interdisciplinary teaching and learning

Interviews
Surveys

Molly Sutphen



Nikolai Czajkowski



Interdisciplinary facilitator program

Nicoline Birkeland





Martine Nyheim



Victoria Haynes

Text analysis

Amanda Bowerman



Ane Kristine Espeseth



Tor Ole Odden





Jonas T. Mjaaland

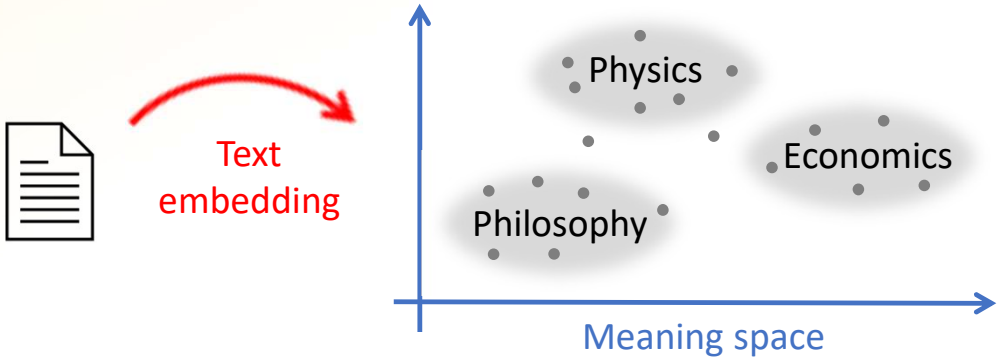


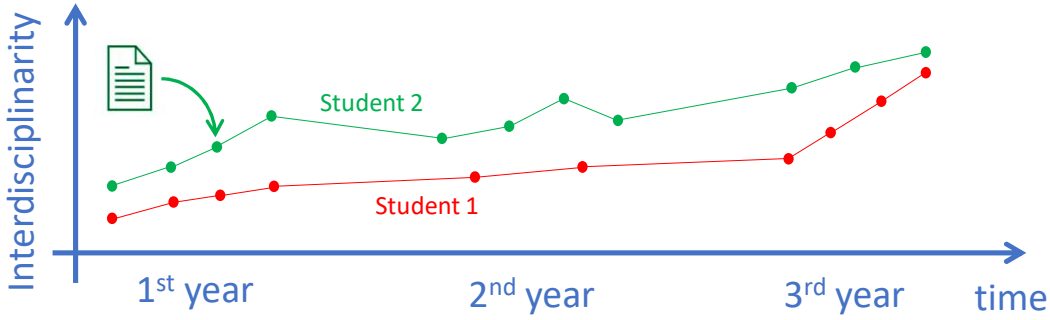
Halvor Tyseng



Markus F. Kreutzer

Qualitative research at scale using text embeddings





Odden, Tyseng, Mjaaland, Kreutzer, Malthe-Sørenssen, Using text embeddings for deductive qualitative research at scale in physics education, *Physical Review Physics Education Research*, **20**, 020151 (2024)

Mjaaland, Kreutzer, Tyseng, Fussell, Passante, Holmes, Malthe-Sørenssen, Odden, Scalable and consistent few-shot classification of survey responses using text embeddings, *arXiv*:2508.19836 (2025)

Nyansettelser

Nyansettelser

Ansatt:

PhD – Studere tverrfaglig fasilitator program

PhD HF – Intervjuet, starter i 2026

PhD MN & SV – Oppstart 2026

Nye student-ledere i 2025 fra SV og MN