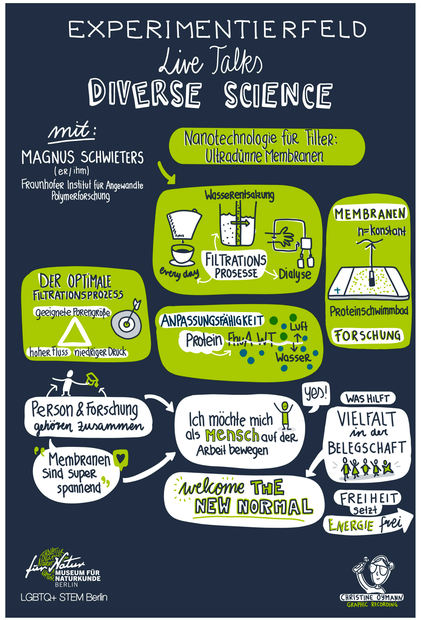
EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
mit:
MAGNUS SCHWIETERS
(er / ihm)
Fraunhofer Institut für Angewandte Polymerforschung
Nanotechnologie für Filter: Ultradünne Membranen
Wasserentsalzung
FILTRATIONS PROZESSE
every day
Dialyse
MEMBRANEN
n=konstant
Proteinschwimmbad
FORSCHUNG
DER OPTIMALE FILTRATIONSPROZESS
Geeignete Energiequelle
hoher Fluss / niedriger Druck
ANPASSUNGSFÄHIGKEIT
Protein
Luft
Wasser
Person & Forschung gehören zusammen
Membranen sind super spannend
Ich möchte mich als Mensch auf der Arbeit bewegen
yes!
WAS HILFT
VIELFALT in der BELEGSCHAFT
welcome THE NEW NORMAL
FREIHEIT setzt ENERGIE frei
LGBTQ+ STEM Berlin
CHRISTINE OSMANN GRAFIC RECORDING

EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
with:
NICOLAS BAIRD
(he / him)
Museum für Naturkunde Berlin
Integrative Taxonomy of Antelopes
Science-in-progress
DNA ≠ how do they talk to each other
find my family
tree of life
"how many species are we"
Scan to get information
DNA
bushbucks
DNA works
Spending time with species is so fascinating
PROXY = similar
my day to day:
computer-work
on my goal-list:
visiting bush-bucks in Africa
and finding the hidden NEW data is awesome!
OPPORTUNITY: depth of learning
Working in the MUSEUM is like being on a goose chase
change LINK the narrative
OPEN NEW POSSIBILITIES
OPEN
INSTITUTE OF QUEER ECOLOGY
how we see & interact with the natural world
A PROJECT of hope
Model = Metaphor translating the unknown to known
ART & SCIENCE
LGBTQ+ STEM Berlin
CHRISTINE OSMANN GRAFIC RECORDING

EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
mit:
LINA SAMIRA BAHR
(sie / ihr)
Charité Universitätsmedizin Berlin
NAMS-Studie - Ernährungswissenschaftliche Ansätze bei Multipler Sklerose
Ursache von MS unbekannt
Zusammenspiel aus Gene
Immun-System
Umwelt
MS - Autoimmunzellen greifen Nervenzellen an
(Modell-Krankheit)
Umweltfaktor Sonnenintensität
je weiter man weg vom Äquator ist...
VITAMINE D & ERNÄHRUNG
Proteine
ENERGIE liefern
Fett
Kohlenhydrate
Unterversorgung: Gehirn ist Abhängig von Glukose
Abhilfe durch KETOGENE Diät THERAPIE
220g
Autophagie = Zellrecycling
Was man essen darf:
Gemüse Plus
Öle, Nüsse Fisch & Co
Glückliche Fügung meiner BERUFUNG & INTERESSE
Ernährungsumstellung ist mit zunehmenden Alter schwieriger
- diverse - DIVERSITÄT "aber bitte doch"
Auslandsaufenthalte gaben mir das MINDSET der GRENZENLOSIGKEIT & Neue Sichtweisen auf alte Fähigkeiten
neues Konzept muss her: PERSON + SCIENCE
Wissenschaft muss verständlicher werden
PRO TIPP: Praxiserfahrung + Netzwerken + Fragen stellen
traut euch
Diskurs & Austausch ist wichtig
VORURTEILE erkennen & abbauen
ACHTUNG: KONSEQUENZ!!
LGBTQ+ STEM Berlin
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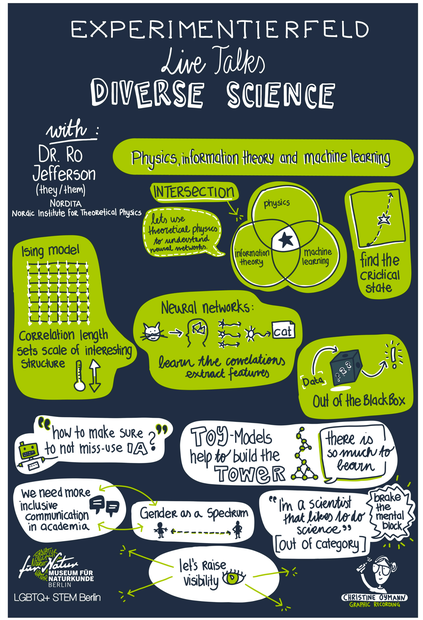
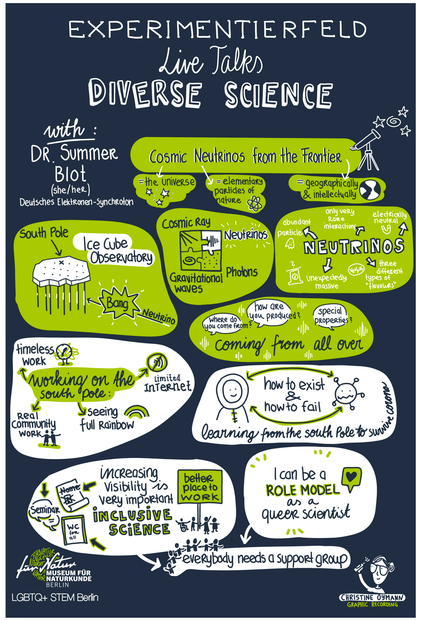
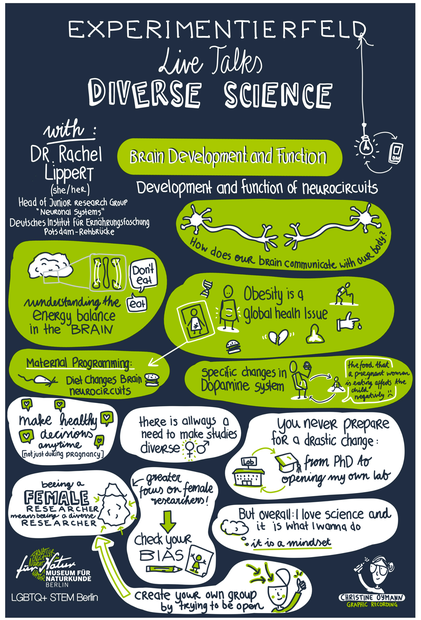

EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
with:
Dr. Ro Jefferson
(they / them)
NORDITA
Nordic Institute for Theoretical Physics
Physics, information theory and machine learning
INTERSECTION
physics
information theory
machine learning
find the critical state
Ising model
Correlation length sets scale of interesting structure
Neural networks:
cat
learn the correlations extract features
Data
Out of the Black Box
"how to make sure to not miss-use AI"
TOY-Models help to build the TOWER
there is so much to learn
We need more inclusive communication in academia
Gender as a Spectrum
"I'm a scientist that likes to do science" [out of category]
break the mental block
let's raise visibility
LGBTQ+ STEM Berlin
CHRISTINE OSMANN GRAFIC RECORDING


EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
with:
DR. Summer Blot
(she / her)
Deutsches Elektronen-Synchrotron
Cosmic Neutrinos from the Frontier
= the Universe
= elementare particles of nature
= Geographically & intellectually
South Pole
Ice Cube Observatory
Bang
Neutrino
Cosmic Ray
Neutrinos
Gravitational waves
Photons
abundant particle
NEUTRINOS
only very rare interaction
electrically neutral
unexpectedly massive
three different types of "flavours"
where do they come from?
how are they produced?
special properties
Coming from all over
timeless work
Working on the south pole:
limited internet
real community work
seeing full Rainbow
how to exist & how to fail
learning from the south Pole to survive
increasing Visibility is very important
INCLUSIVE SCIENCE
better place to WORK
Seminar
I can be a ROLE MODEL as a queer scientist
everybody needs a support group
LGBTQ+ STEM Berlin
CHRISTINE OSMANN GRAFIC RECORDING


EXPERIMENTIERFELD
Live Talks
DIVERSE SCIENCE
with:
DR. Rachel Lippert
(she / her)
Head of Junior Research Group "Neuronal Systems"
Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke
Brain Development and Function
Development and function of neurocircuits
How does our brain communicate with other body?
understanding the energy balance in the "BRAIN"
Don't eat
eat
Obesity is a global health Issue
Maternal Programming:
Diet Changes Brain neurocircuits
specific changes in Dopamine system
make healthy decisions anytime (not just during pregnancy)
there is always a need to make studies diverse
You never prepare for a drastic change:
from PhD to opening my own lab
being a FEMALE RESEARCHER means being a diverse RESEARCHER
greater focus on female researchers!
But overall: I love science and it is what I wanna do
it is a mindset
Check your BIAS
create your own group by trying to be open
LGBTQ+ STEM Berlin
CHRISTINE OSMANN GRAFIC RECORDING