



# THE NEW NETWORK: YOUNG RESEARCHERS AND THE GLOBAL SCIENCE COMMUNITY

# PROGRAM

- Opening and presentation of the Experts and Young researchers – Maria Siwek
- Welcoming by Professor Tomasz Szwaczkowski, Chair of Committee of Animal Sciences and Aquaculture PAS
- Presentations by experts
- Panel discussion
- Voice of Young Researchers
- Q&A

## EXPERTS:

- Servet Yalcin – Vice president of **World's Poultry Science Association**
- Krzysztof Kozłowski – President of Polish Branch **World's Poultry Science Association**
- Giuseppe Bee – **Vice-President representing knowledge providers - Animal Task Force**
- Marcin Pszczoła – Vice – President of Commission on Animal Genetics, **European Federation of Animal Sciences**
- Elżbieta Martyniuk - former National Coordinator for AnGR, FAO and ERFP-AnGR
- Daniel Żarski - member of **European Aquaculture Society Board of Directors** and currently also **Treasurer**
- Anna Wolc – Iowa University, USA

## YOUNG RESEARCHERS:

- Rossella Debernardis – European **Aquaculture Society - Student Group Poland**
- Weronika Klecel - Faculty of Veterinary Medicine, Canada

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# World's Poultry Science Association

Servet Yalcin – Vice President

## THE LEADING GLOBAL NETWORK FOR POULTRY SCIENCE

- The objective of WPSA is to promote knowledge about poultry science and the poultry industry.
- WPSA was established in 1912
- It is a well-established non-profit organization.
- There are about 8000 members from 80 countries.

# **Congresses and Symposia are held regularly to promote the organization's objectives:**

- International congresses and conferences: by WPSA national branches.
- European Symposium: every 4 years in one of the European Countries.
- The World's Poultry Congress: every 4 years in one of the member countries.
- Working Groups Symposia: every two years in one of the European countries.

- The World's Poultry Science Journal is published four times per year.

# Support for students

- **WPSA Travel Grant for young WPSA members and students** to attend and participate in regional and global WPSA conferences.
- **PhD student research support programme** aims to support expenses directly related to the PhD project, such as *tuition fees, personal computers, software licenses, travel for data collection, and the dissemination of results, including publication costs*.
- *For more information visit <https://wpsa.com>*

# Polish Branch of World's Poultry Science Association

Krzysztof Kozłowski - President



<https://wpsa.pl>

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## POLISH BRANCH of WORLD'S POULTRY SCIENCE ASSOCIATION

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### BOARD

- prof. dr hab. Krzysztof Kozłowski - president
- ***dr hab. Monika Michalczuk, prof. SGGW***
- mgr inż. Adriana Jaroszek
- dr hab. Marcin Lis, prof. URK
- dr hab. Marcin Hejdysz, prof. UPP
- dr hab. Paweł Konieczka, prof. UWM
- prof. dr hab. Artur Kowalczyk

175 participants (researchers, PhD students, students, organizations)



## OUR ACTIVITIES

Organization of conferences

*Poultry TECH Fair 2025 – „Modern poultry farming - challenges and opportunities”*

*XXXVI Symposium of PB WPSA - 14-16 September 2026 in Zegrze/Warsaw*

Patronage (e.g., conferences, fairs)

Collaboration with poultry industry (poultry producers, organisations & companies)

Activation of young researchers

*Jerzy Będkowski competition – with awards for best young scientists*

*Prof. Andrzej Rutkowski fund – for research internship, participation in conferences*

*Prof. Andrzej Faruga fund – with awards for the best master's thesis competition*

Organization of webinars

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# Animal Task Force

Giuseppe Bee – Vice President representing knowledge providers



# Animal Task Force (ATF)

Giuseppe Bee – Vice President representing knowledge providers

The **Animal Task Force** the European Public-Private Partnership who aims to promote a sustainable and competitive livestock sector in Europe.

<https://animaltaskforce.eu/>

## Fostering knowledge-based innovation for a sustainable and competitive livestock sector in Europe

### Who we are?

#### Private sector organisations



#### Knowledge providers



#### In close cooperation with



**Members  
(Research &  
private sector)**

## What we do?

- Providing input for EU research and innovation agendas
- Engaging in dialogue on sector innovation with key stakeholders in EU
- Enhancing cooperation in EU research & innovation
- Enabling knowledge exchange and act as a source of expertise

**EU authorities  
NGOs and  
stakeholders**

### YEAR 2025

**Livestock farming systems in next  
generations:  
can we imagine the future?**

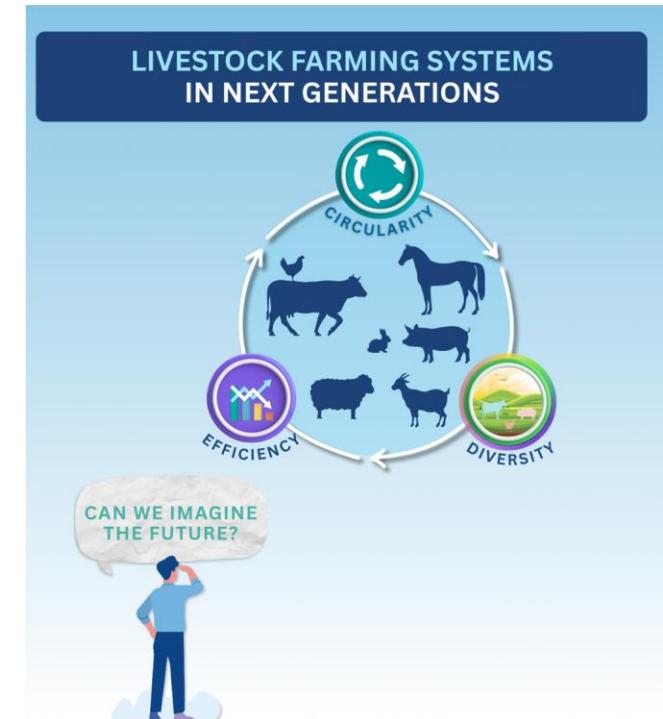
**Joint session of the ATF & EAAP  
commission on Livestock Farming  
Systems**

EAAP Annual Meeting, 25<sup>th</sup> August 2025  
Innsbruck, Austria

**15<sup>th</sup> ATF Seminar**

Brussels, 26<sup>th</sup> November 2025

WEBINAR



# Can ATF help build Your Network

## 1. NETWORKING & CONFERENCES:

- **Annual Scientific Meeting: Joint session of the ATF & EAAP commission on Livestock Farming Systems** - opportunity to exchange
- **Policy focused Meeting** (onsite & online): **Meet policy makers in the Bruxelles bubble.**

## 2. VISION PAPER & SRIA (Strategic Research and Innovation Agenda):

- Challenges, ways of progress and suggested priorities for research for Horizon Europe to enhance innovation and sustainability in the livestock production sector of Europe's food supply chains - **Contribute to the development of the documents**

## 3. LEARN ABOUT INTERNATIONAL ORGANISATIONS:

- Read the reports of the ATF presidency with the organizations. Learn about “current” issues of the different organizations.

# EAAP

Marcin Pszczoła – Vice President of Commission on Animal Genetics

# EAAP: Your Gateway to the Global Animal Science Community

## **Who We Are:** The European Federation of Animal Sciences

- A network of scientists, researchers, and industry partners.
- Connecting 35+ member countries.

## **What We Do (Our 3 Pillars):**

- 1. The Annual Meeting:** Europe's largest animal science congress.
- 2. Publications:** Home of the high-impact journal *animal*.
- 3. Study Commissions:** 11 specialized groups (Genetics, Nutrition, Health, etc.).

# How EAAP Builds Your Network

## 1. Networking & Conferences:

- **Annual Meeting:** Meet 1,000+ experts.
- **EAAP Young Scientists Club:** Dedicated sessions, workshops, and social events.
- **Travel Grants & Awards:** We help you get there (addressing the "money" problem ).

## 2. Resources & Platforms:

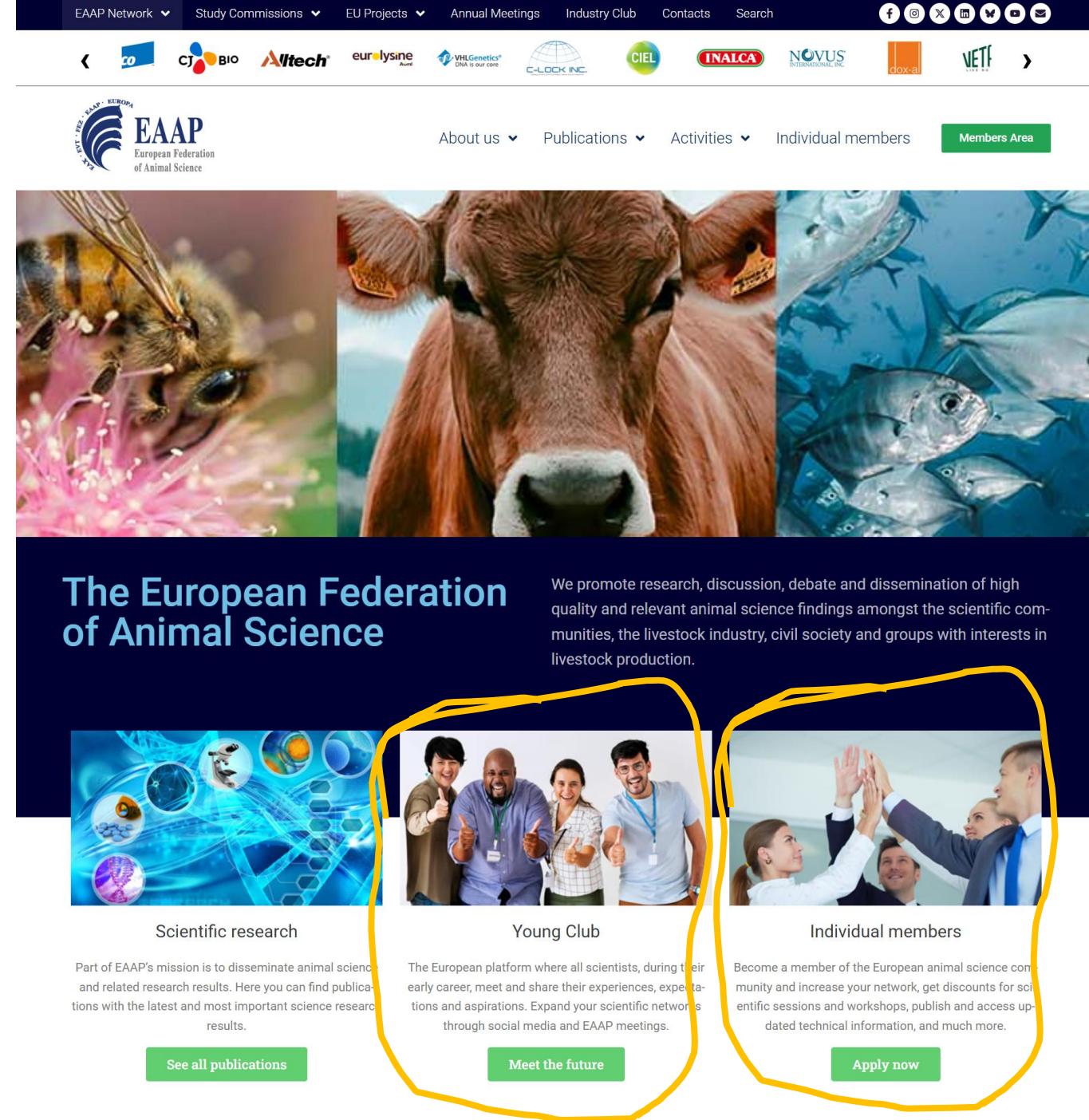
- **Study Commissions:** Join a specialized network (like mine in Genetics).
- **PhD Workshops:** Get specialized training and mentorship.

## 3. Joining International Consortia:

- Commissions and Working Groups are where projects (like Horizon Europe) are born. It's the #1 way to find partners.

# How to build Your Network with EAAP?

Visit [eaap.org](http://eaap.org)



The screenshot shows the EAAP website homepage. At the top, there is a navigation bar with links to EAAP Network, Study Commissions, EU Projects, Annual Meetings, Industry Club, Contacts, and Search. Below the navigation bar are several logos of partner organizations: CTO BIO, Alltech, eurolysine, VHLGenetics, CLOCK INC, INALCA, NOVUS INTERNATIONAL, INC, and VET&CO. The EAAP logo is on the left, and a green "Members Area" button is on the right. The main content area features a collage of images: a bee on a flower, a cow's head, and a school of fish. Below the collage, the text "The European Federation of Animal Science" is displayed. To the right, a descriptive text states: "We promote research, discussion, debate and dissemination of high quality and relevant animal science findings amongst the scientific communities, the livestock industry, civil society and groups with interests in livestock production." Three circular call-to-action sections are highlighted with yellow outlines: "Scientific research" (with a blue abstract background image), "Young Club" (with a group of diverse people giving thumbs up), and "Individual members" (with a group of people high-fiving). Each section has a green "See all publications", "Meet the future", and "Apply now" button at the bottom.

EAAP  
European Federation of Animal Science

About us [Publications](#) [Activities](#) [Individual members](#) [Members Area](#)

The European Federation of Animal Science

We promote research, discussion, debate and dissemination of high quality and relevant animal science findings amongst the scientific communities, the livestock industry, civil society and groups with interests in livestock production.

Scientific research

Young Club

Individual members

See all publications

Meet the future

Apply now

Part of EAAP's mission is to disseminate animal science and related research results. Here you can find publications with the latest and most important science research results.

The European platform where all scientists, during their early career, meet and share their experiences, expectations and aspirations. Expand your scientific network through social media and EAAP meetings.

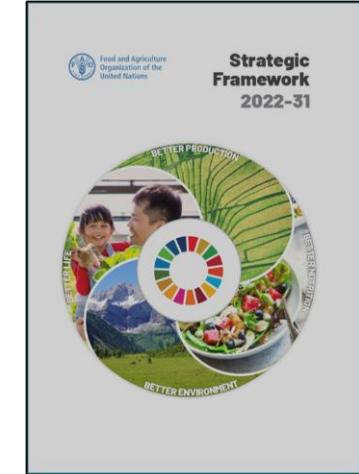
Become a member of the European animal science community and increase your network, get discounts for scientific sessions and workshops, publish and access updated technical information, and much more.

# FAO

Elżbieta Martyniuk - former National Coordinator for AnGR, FAO and ERFP-AnGR

# Let there be bread

- Established on 16 October 1945 in Quebec City, CA
- 195 members, 194 countries and the EU



## FAO's Strategic Framework 2022-2031

support the 2030 Agenda through the transformation to MORE efficient, inclusive, resilient and sustainable, agri-food systems for:

- better production,
- better nutrition,
- a better environment, and
- a better life

leaving no one behind.



**David Lubin**

1849, Kłodawa - 1919, Rome  
International Institute  
of Agriculture, 22  
1905

# Talent and Professional Opportunities

- **Internship Programme**
- **Volunteer Programme**
- **Young Professionals Programme**
- **Junior Professional Officers Programme (GOV)**
- Fellows Programme
- Consultancies and Personal Services Agreements (PSAs)

# Talent and Professional Opportunities

Probably your best option

## Internship Programme

- Offers a learning experience for students or recent graduates to apply academic knowledge in real-world settings and contribute to FAO work.
- **Designed for graduates and students:** targets individuals who are enrolled in or have recently completed a university degree.
- **Age range:** 21–30 years old.
- **Learning focus:** provide practical experience and exposure to FAO's work, helping you apply academic knowledge in a professional setting.
- **Duration:** Typically, 3–11 months, offering a clear timeframe for skill-building and networking.

# Talent and Professional Opportunities

It requires investment  
from your side!- Applying through FAO's career  
portal via **Calls for Expression of Interest**.

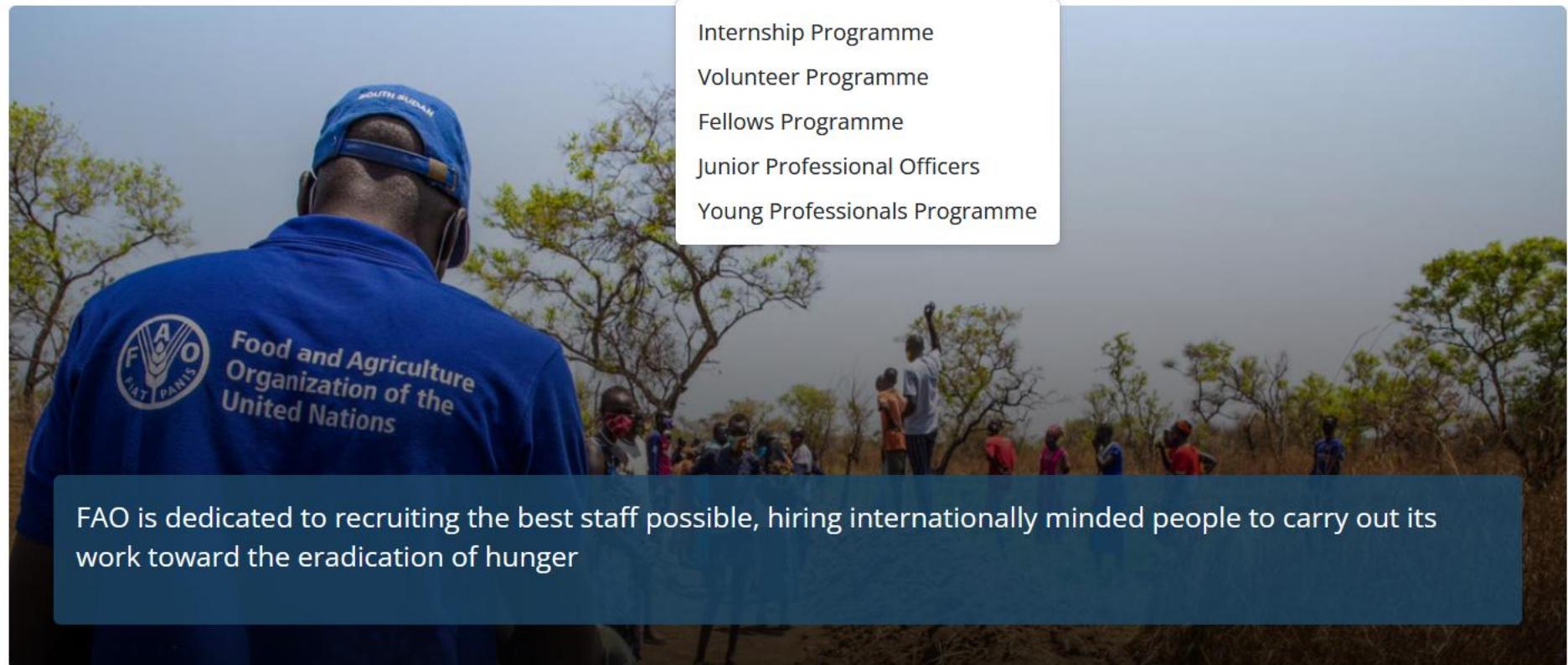
## Volunteer Programme

- **Age:** At least 18 years old/between 21 and 30 at start date.
- **Education:** At least an undergraduate degree (a master's is an advantage)/enrolled in undergrad/graduate programme or a recent graduate.
- **Languages:** Working knowledge of at least one FAO language.
- **Availability:** Flexible/Assignments usually last **3 to 11 months**.
- **Motivation:** Commitment to FAO's mission (ending hunger, promoting sustainable agriculture, etc.).

Home

<https://www.fao.org/employment/home/en/>

# Employment at FAO

[What we offer](#) [Who we need](#) [How to apply](#) [Vacancies](#) [Young Talent Programmes](#) ▾

FAO is dedicated to recruiting the best staff possible, hiring internationally minded people to carry out its work toward the eradication of hunger

# A shift in FAO to engage young researchers: The World Food Forum: 2021

- an independent global network of partners; facilitated by FAO;
- created for and led by youth to spark a global movement to shape our agrifood systems with the aim to achieve the SDGs and a better food future for all;
- more than **40,000 young and young-at-heart** people involved;
- **over 75 youth and youth-allied partners** from all sectors  
(such as: AGCO, IFSA, ICA, Worldchefs - multilateral institutions, regional youth bodies, private foundations, and academia).

# Research and Innovation Programs for young scientists

06.05.2022, Rome

- The FAO and the World Food Forum (WFF) have launched the WFF's first-ever cohort of the **Young Scientists Group**



the independent, youth-led body providing scientific knowledge and guidance to the various activities of the WFF Youth Initiative, including the Youth Assembly, Youth Innovation Lab and Youth Education Programme.

- called for applications to the second edition of the WFF **Transformative Research Challenge.**

# WFF Transformative Research Challenge:

- A global competition for young university students and researchers to receive mentorship and visibility to advance knowledge and translate innovative research ideas into tangible solutions for food systems transformation;
- The TRC has collaborated with 18 prominent organizations;

- Over **2 000 applications** submitted globally;
- **71 youth-led innovative research projects;**
- TRC has awarded more than **USD 500 000** in grants and in-kind support.

Project proposal  
has to be great!

# FAO information systems

**DAD-IS (Domestic Animal Diversity Information System):**  
a global information system (database/website) for AnGR)

## Other Information Systems/Data Hubs:

- **FAOSTAT** (data on food, agriculture, and related economic indicators for over 245 countries and territories)
- **CountrySTAT** (Web-based system for food and agriculture statistics)
- **Empres-i** (Global Animal Disease Information System)
- **Pastoralist Knowledge Hub** (platform dedicated to pastoralist communities and stakeholders)
- **AQUASTAT** (Water resources and management)
- **WIEWS** (World Information and Early Warning System on Plant Genetic Resources for Food and Agriculture.)

Net | Animal genetics | Foo X Domestic Animal Diversity Infor X +

www.fao.org/dad-is/en/ ENHANCED BY Google Zaloguj się

FAO Food and Agriculture Organization of the United Nations

العربية 中文 English Français Русский Español

## Domestic Animal Diversity Information System (DAD-IS)

Data In Focus Publications National Coordinators Regional/National Nodes

DAD-IS is the Domestic Animal Diversity Information System maintained and developed by FAO. It provides you with access to searchable databases of breed-related information and photos and links to other online resources on livestock diversity. Furthermore, you can find the contact information of all National Coordinators for the Management of Animal Genetic Resources. It allows you to analyse the diversity of livestock breeds on national, regional and global levels including the status of breeds regarding their risk of extinction.



### Key facts

-  The roles and values of animal genetic resources remain diverse, particularly with regard to the **livelihoods of poor**
-  There are around **8800** livestock breeds of **38** different species in the world, providing a diversity of products
-  Many breeds have **unique characteristics** that can contribute to meeting challenges related to **climate**
-  The threats to animal genetic resources **need to be better identified** and their potential effects better assessed, so that

Wyszukaj

23:17 09.11.2025

**PAN**  
POLSKA AKADEMIA NAUK  
Komitet  
Nauk Zootechnicznych  
i Akwakultury

NCs:  
your primary  
contacts to help  
in finding right people

genetics | Foc x

www.fao.org/animal-genetics/fora/dad-net/en/ Zaloguj się

# Animal genetics

Background Global Policy Breed database Resources **Fora** Events



**DAD-Net**  
Pastoralist knowledge hub

## DAD-Net

The Domestic Animal Diversity Network (DAD-Net) is an e-mail-based network that provides an informal forum for the discussion of issues relevant to the management of animal genetic resources. It was established in 2005, and by late 2016 had about 3000 subscribers worldwide.

DAD-Net is open to anyone who wishes to join. Registration is free of charge. Messages can be posted in English, French or Spanish. FAO moderates the network and periodically contributes information. Members can choose to receive messages immediately or via daily, weekly or monthly digests. The DAD-Net web site (available in a range of interface languages) provides access to active and archived discussions, as well as a calendar of events and a library.

Subgroups have been established for the following regions and subregions:

- Asia and the Pacific;
- Latin America and Caribbean;
- East Africa;
- North Africa;
- West and Central Africa; and
- Eastern Europe and Central Asia (Russian speaking)

niedziela, 9 listopada 2025  
niedz. 23:15 (Czas lokalny)

23:15 09.11.2025

PAN  
Komitet  
Nauk Zootechnicznych  
i Akwakultury

- E-mail based communication network
- Around 3500 users globally
- Wide scope of topics
- You are **welcome to join**



# European Aquaculture Society

Daniel Żarski – member of Board of Directors & Treasurer



Team of Reproduction and Development in fish

## The 2024-2026 EAS Board of Directors

**President:** Marc Vandepitte, INRAE, France.

**President Elect** – becoming EAS President in 2026. Damien Toner, BIM, Ireland.

**Board Members:** Alessio Bonaldo - University of Bologna Italy, Benjamin Costas - CLIMAR (University of Porto) Portugal, Antonios Chalaris - Devenish UK, Nikos Papandroulakis - HCMR Greece and Daniel Źarski - Polish Academy of Sciences Poland.

**Student Representative:** Silvia Natale - University of Bologna, Italy

**Past President:** Bente Torstensen – NOFIMA Norway.





- 1000+ members
- Annual scientific conference and tradeshow (3000+ participants)
- Various workshops and associated events for young researchers
- Networking platform combining youth and experience
- Scientists and entrepreneurs

# Even the best networking platform won't do job for you

## Show up — and show interest!

- Attend conferences **not only to be there and have great photos.**  
*Present, listen, ask, and discuss.*
- Volunteer for **organizing committees**, workshops, or student mentoring.
- Be visible *for the right reasons*: **reliability, enthusiasm, and generosity.**

# European Aquaculture Society

Rossella Debernardis – management team of the student group



# EAS-SG: “The Future of Aquaculture”

## Who are we?



37 National Coordinators representing 21 European countries

## What do we do?

*Bring Aquaculture Students Together*



**STUDENTS @AQUA2024**  
EAS Student Workshop  
LET'S BRAINSTORM AND DEVELOP INNOVATIVE APPROACHES TO TACKLE EXCITING INDUSTRY CHALLENGES IN AQUACULTURE.  
28 AUG, 2024 2:00 - 5:30 PM  
ROOM: MR19 BELLA CENTRE, COPENHAGEN  
EAS-SG sponsors: SPRIOS PannoniaBio



**FISH'N'CHIT** 1/3  
Saturday, July 12, 20-22h CET  
Registration is mandatory!  
Organised by: EAS-SG

## QUESTION →

What is the best way to build a strong network of connections in the scientific community, both online and offline ?

## QUESTION →

How to get involved in international research consortia?

# From Poznań, Poland to Iowa, USA

Anna Wolc

# Dr Anna Wolc

## International journey

### Poland-The Netherlands-Scotland-USA

13.11.2025

WEBINAR



# Poznan University of Life sciences

Biology, Biotechnology, Landscape Architecture, Agriculture, Horticulture, Forestry, Wood technology, Environmental Protection, Animal Science, Veterinary Medicine, Food Technology, Economics...

Over 7 000 students, and almost 1 300 employees.

3-level system: I) studies for the degree of Engineer or undergraduate (bachelor) studies, II) graduate studies ending with a Master's degree, and III) doctoral studies (PhD



# Koepon foundation

<https://koepon.com/>



# Wageningen

During MSc: 2 trimesters (6 weeks classes, week brake, exam week) at Wageningen University.

Advanced, high-level classes.

Grades 1-10, Group projects

Less hierarchy, professors happy to discuss and encourage questions

Very international

Bike is the main mean of transportation (tough in winter)

Coffee breaks for grad students and faculty to chat

Single rooms in the dorms

Eye opening experience

# Socrates Erasmus

Taught a 3 day course at Humboldt University  
Built collaboration – published some papers  
Got invited to a conference  
New people – new opportunities



# Postdoc University of Edinburgh



Sent out 50CVs  
got 3 replies  
1 negative





# Conference in Bedlewo EPGS – invitation to ISU

Show up

Present your research, publish

Help out

Who knows where your next job offer  
may come from?



# Why ISU?



ISU is within top 10 (possibly top 5) Animal Breeding and Genetics groups globally

Prof. Jack Dekkers is one of the best

Came for 1 year postdoc with possible extension to second year based on performance

That was in 2010...

Hired by Hy-Line Int in 2012 to lead genomic selection program. Company donates 30% of my time to ISU as affiliate faculty.

I do research, write papers, present at conferences, teach graduate students, POS committee member

Volunteer at One Heart Equestrian Therapy, Sing at Ames Choral Society



# International experience

See places



Meet people, make friends



Learn about cultures



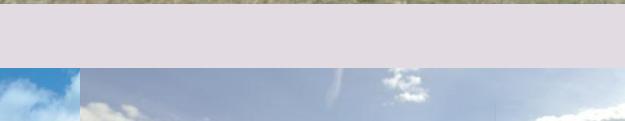
Experience food, music, nature



Become more open-minded



Open new opportunities



Find jobs,



Find things which are meaningful to you



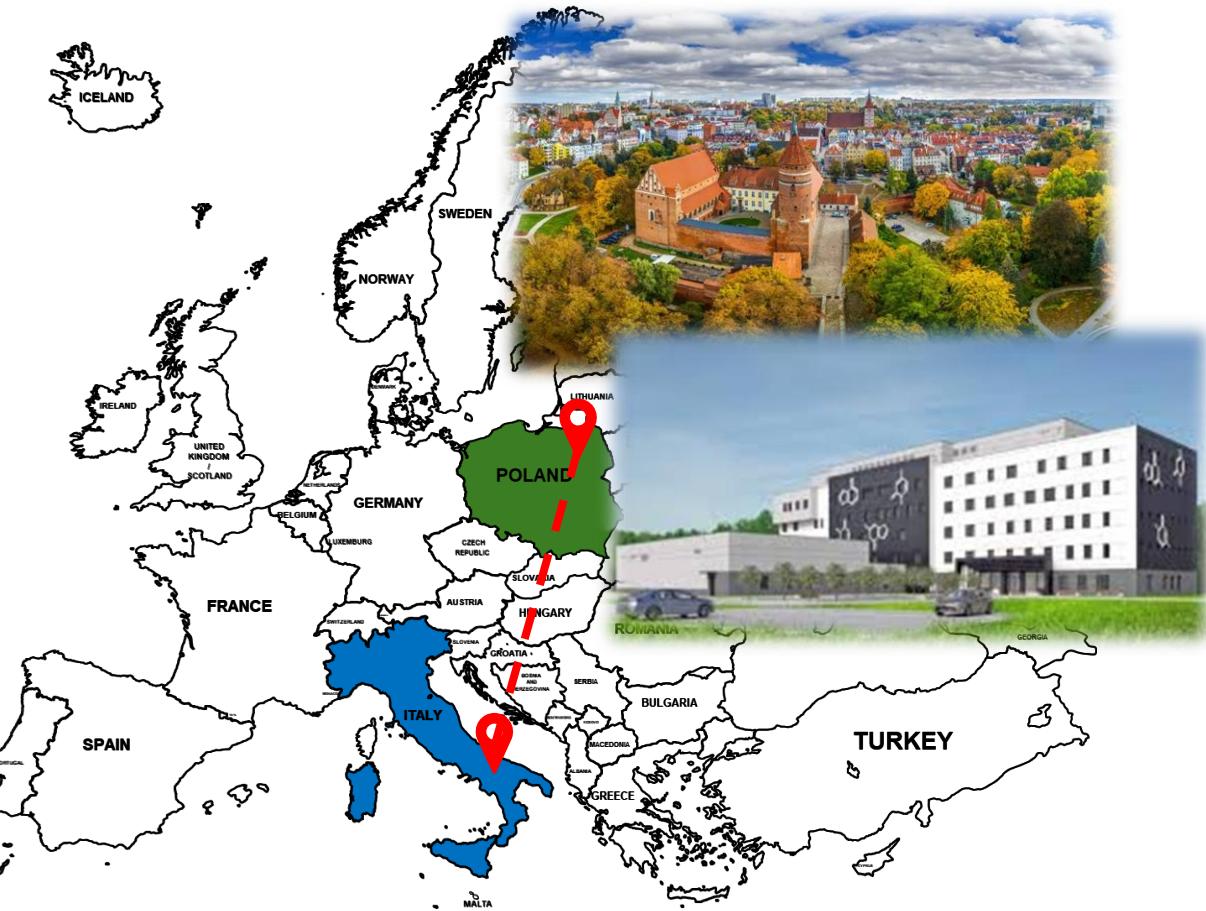
## QUESTION →

The role of conferences, training courses, and short internships abroad.

# The voice of Young researchers

Rossella Debernardis

# My Journey: From Italy to Poland



PhD candidate in the Team of Reproduction and Development in Fish



# My Journey: From Italy to Poland

- ❖ Why did you choose to move abroad - and why Poland in particular?
- ❖ How did you adjust to living in a new environment, food and language?
- ❖ What has this experience taught me?
- ❖ What advice would you give to someone considering a similar move?

# The voice of Young researchers

Weronika Klecel

Step 1: With whom do I want to work?

# Four Loci Explain 83% of Size Variation in the Horse

Shokouh Makvandi-Nejad<sup>1</sup>, Gabriel E. Hoffman<sup>2</sup>, Jeremy J. Allen<sup>1</sup>, Erin Chu<sup>1</sup>, Esther Gu<sup>1</sup>,  
Alyssa M. Chandler<sup>1</sup>, Ariel I. Loredo<sup>1,3</sup>, Rebecca R. Bellone<sup>4</sup>, Jason G. Mezey<sup>2</sup>, Samantha A. Brooks<sup>5</sup>,  
Nathan B. Sutter<sup>1\*</sup>

## Differential Gene Expression of *TRI* Congenital Stationary Night Blind Patterns (*LP*) in the Appaloosa

Rebecca R. Bellone,<sup>\*,1</sup> Samantha A. Brooks,<sup>†</sup> Lyi  
George Forsyth,<sup>\*\*</sup> Sheila Archer,<sup>††</sup> Ernest Bailey<sup>†</sup> and B

## Seven novel *KIT* mutations in horses with *wl* phenotypes

B. Haase<sup>\*,†</sup>, S. A. Brooks<sup>‡</sup>, T. Tozaki<sup>§</sup>, D. Burger<sup>¶</sup>, P.-A. Poncet<sup>¶</sup>,  
C. Penedo<sup>‡‡</sup> and T. Leeb<sup>\*,†</sup>

University of Florida, Gainesville, FL, USA

Regula Hauswirth<sup>1,2,3</sup>, Bianca Haase<sup>3,6</sup>, Marlis Blatter<sup>4</sup>, Samantha A. Brooks<sup>5</sup>, Dominique Cord Drögemüller<sup>1,2</sup>, Vincent Gerber<sup>7</sup>, Diana Henke<sup>8</sup>, Jozef Janda<sup>9</sup>, Rony Jude<sup>10</sup>, K. Jacqueline M. Matthews<sup>12</sup>, Pierre-André Poncet<sup>4</sup>, Vilhjálmur Svansson<sup>13</sup>, Teruaki To Lorna Wilkinson-White<sup>12</sup>, M. Cecilia T. Penedo<sup>15</sup>, Stefan Rieder<sup>4</sup>, Tosso Leeb<sup>1,2,\*</sup>

## Whole-Genome SNP Association in the Horse: Identification of a Deletion in Myosin Va Responsible for Lavender Foal Syndrome

Samantha A. Brooks<sup>1\*</sup>, Nicole Gabreski<sup>1</sup>, Donald Miller<sup>2</sup>, Abra Brisbin<sup>3</sup>, Helen E. Brown<sup>2✉</sup>, Cassandra Streeter<sup>1</sup>, Jason M. McLean<sup>3</sup>, Deborah Scott<sup>4</sup>, Douglas E. Antczak<sup>2</sup>

## Genome Diversity and the Origin of the Arabian Horse

Elissa J. Cosgrove<sup>1,13</sup>, Raheleh Sadeghi<sup>2,4,13</sup>, Florencia Schlamp<sup>1</sup>, Heather M. Holl<sup>3</sup>, Mohammad Moradi-Shahrabak<sup>4</sup>, Seyed Reza Miraei-Ashtiani<sup>4</sup>, Salma Abdalla<sup>5</sup>, Ben Shykind<sup>5,6</sup>, Ma Stefania Bucca<sup>10</sup>, M Donald C. Miller<sup>2</sup>, A



# Recalibrating *Equus* evolution using the genome sequence of an early Middle Pleistocene horse

Ludovic Orlando<sup>1\*</sup>, Aurélie Enrico Cappellini<sup>1</sup>, Bent Pe Thorfinn Korneliussen<sup>1</sup>, Al Andrei Dolocan<sup>12</sup>, Jesper S Grant D. Zazula<sup>13</sup>, Andaine Jacobo Weinstock<sup>16</sup>, Kristi Douglas F. Antczak<sup>21</sup>, Mad John Mundy<sup>26</sup>, Anders Krog Jesper V. Olsen<sup>10</sup>, Michael

## Ancient genomic changes associated with domestication of the horse

### of domestic and Przewalski's horses

Charleen Gaunitz,<sup>1\*</sup> Antoine Fages,<sup>1,2\*</sup> Kristian Hanghøj,<sup>1,2</sup> Anders Albrechtsen,<sup>3</sup> Naveed Khan,<sup>1,4</sup> Mikkel Schubert,<sup>1</sup> Andaine Seguin-Orlando,<sup>1,2,5</sup> Ivy J. Owens,<sup>6,7</sup> Sabine Felkel,<sup>8</sup> Olivier Bignon-Lau,<sup>9</sup> Peter de Barros Damgaard,<sup>1</sup> Alissa Mittnik,<sup>10</sup> Azadeh F. Mohaseb,<sup>11,12</sup> Hossein Davoudi,<sup>12,13,14</sup> Saleh Alquraishi,<sup>15</sup> Ahmed H. Alfarhan,<sup>15</sup> Khaled A. S. Al-Rasheid,<sup>15</sup> Eric C. Sandra Olsen,<sup>17</sup> Dorcas Brown,<sup>18</sup> David Anthony,<sup>18</sup> Ken Aleksei Kasparov,<sup>20</sup> Gottfried Brem,<sup>8</sup> Michael Hofreiter,<sup>21</sup> Nurbol Baimukhanov,<sup>23</sup> Lembi Lõugas,<sup>24</sup> Vedat Onar,<sup>25</sup> Johannes Krause,<sup>10</sup> Bazartseren Boldgiv,<sup>26</sup> Sainbileg Un Diimaajav Erdenebaatar,<sup>27</sup> Sébastien Lepetz,<sup>11</sup> Marjan M. Barbara Wallner,<sup>8</sup> Victor Merz,<sup>29</sup> Ilja Merz,<sup>29</sup> Viktor Za Pablo Librado,<sup>1</sup> Alan K. Outram,<sup>6</sup> Ludovic Orlando<sup>1,2,†</sup>



## Prehistoric genomes reveal the genetic foundation and cost of horse domestication

Mikkel Schubert<sup>a,1</sup>, Hákon Jónsson<sup>a,1</sup>, Dan Chang<sup>b,1</sup>, Clio Der Sarkissian<sup>a</sup>, Luca Ermini<sup>a</sup>, Aurélien Ginolhac<sup>a</sup>, Anders Albrechtsen<sup>c</sup>, Isabelle Dupanloup<sup>d,e</sup>, Adrien Foucal<sup>d,e</sup>, Bent Andaine Seguin-Orlando<sup>a,h</sup>, Thorfinn S. Korneliussen<sup>a</sup>, Ahmed M. Carl-Johan Rubin<sup>i</sup>, Ahmed H. Alfarhan<sup>k</sup>, Saleh A. Alquraishi<sup>k</sup>, Khaled Ted Kalbfleisch<sup>n</sup>, James N. MacLeod<sup>o</sup>, Edward M. Rubin<sup>i</sup>, Thomas Sir Tomas Marques-Bonet<sup>q,r</sup>, M. Thomas P. Gilbert<sup>a</sup>, Rasmus Nielsen<sup>s</sup>, I and Ludovic Orlando<sup>a,2</sup>

## Ancient genomic changes associated with domestication of the horse

Pablo Librado,<sup>1\*</sup> Cristina Gamba,<sup>1\*</sup> Charleen Gaunitz,<sup>1</sup> Clio Der Sarkissian,<sup>1</sup> Mélanie Pruvost,<sup>2</sup> Anders Albrechtsen,<sup>3</sup> Antoine Fages,<sup>1,4</sup> Naveed Khan,<sup>1,5</sup> Mikkel Schubert,<sup>1</sup> Vidhya Jagannathan,<sup>6</sup> Aitor Serres-Armero,<sup>7,8</sup> Lukas F. K. Kuderna,<sup>7,8</sup> Inna S. Povolotskaya,<sup>7,8</sup> Andaine Seguin-Orlando,<sup>1,9</sup> Sébastien Lepetz,<sup>10</sup> Markus Neuditschko,<sup>11</sup> Catherine Thèves,<sup>4</sup> Saleh Alquraishi,<sup>12</sup> Ahmed H. Alfarhan,<sup>12</sup> Khaled Al-Rasheid,<sup>12</sup> Stefan Rieder,<sup>11</sup> Zainolla Samashev,<sup>13</sup> Henri-Paul Francfort,<sup>14</sup> Norbert Benecke,<sup>15</sup> Michael Hofreiter,<sup>16</sup> Arne Ludwig,<sup>17</sup> Christine Keyser,<sup>4,18</sup> Tomas Marques-Bonet,<sup>7,8,19</sup> Bertrand Ludes,<sup>4,20</sup> Eric Crubézy,<sup>4</sup> Tosso Leeb,<sup>6</sup> Eske Willerslev,<sup>1</sup> Ludovic Orlando<sup>1,4,†</sup>

## Tracking Five Millennia of Horse Management with Extensive Ancient Genome Time Series

### Graphical Abstract

Past Population Structure and Diversity

### Authors

Antoine Fages, Kristian Hanghøj, Naveed Khan, ..., Alan K. Outram, Pablo Librado, Ludovic Orlando

**Step 2: How do I get to them?**

Strategy	Pros	Cons
Cold emails	Low (zero) cost, both money- and time-wise No real risks	Small chances of success
Mutual contacts	Low (zero) cost, both money- and time-wise Higher chances of success	Risking the relationship with the mutual contact if something goes wrong
Conferences	Very high chances of success Opportunity to present your work and gain experience	Expensive and logistically difficult What if they don't show up?



Step 3: How to make them invite  
me to their lab?

1. Ask questions about their research. Show them you know their work!
2. Ask for advice regarding your research.
3. Ask directly about externship opportunities.

**Step 4: How to fund the trip(s)?**

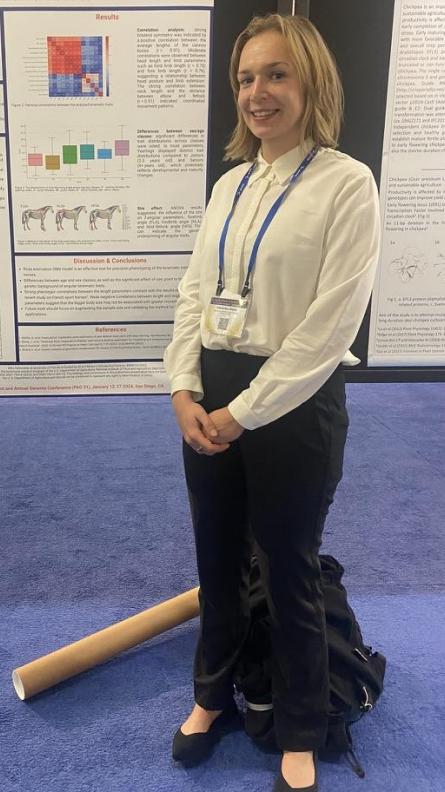
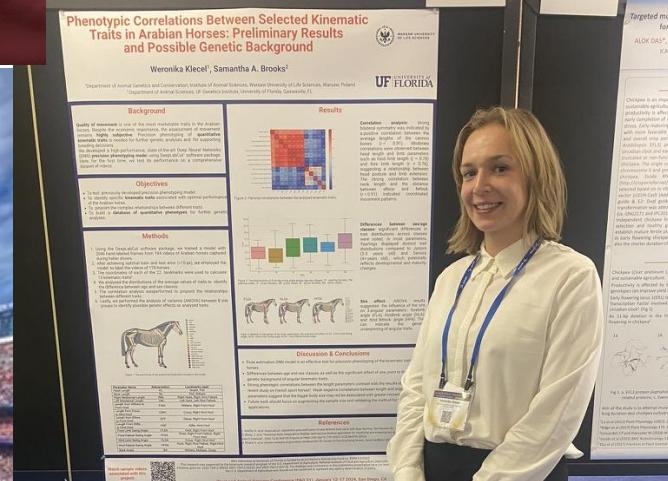
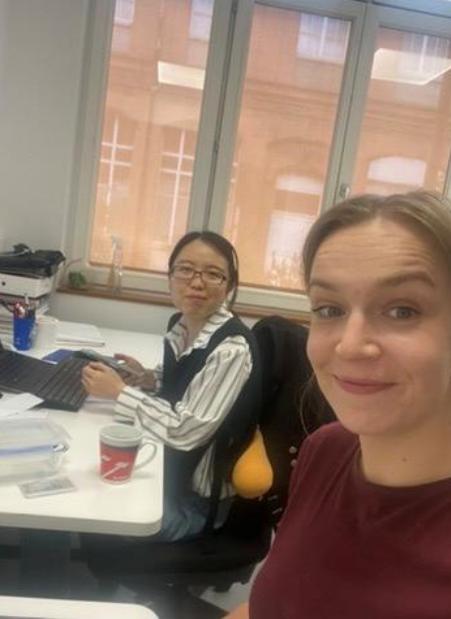
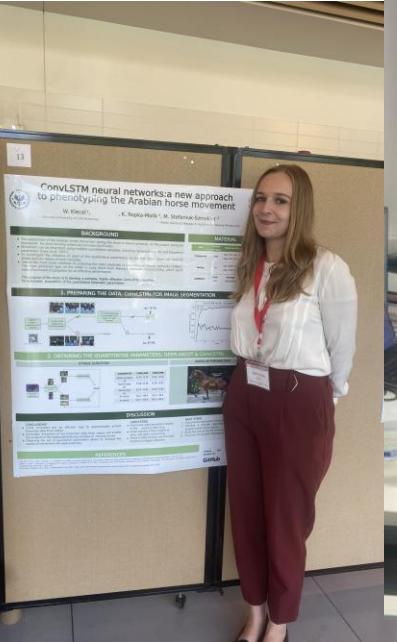
1. Apply for every funding you're eligible for.
2. Ask for money instead of gifts.
3. Spend your stipend.
4. Get another job/side hustle.
5. Get a loan.



# The most important factors (IMO)

- Passion for research (!)
- Clear goal & hierarchy of priorities
- Seizing *every* opportunity

# Good luck!



## QUESTION →

Problems with networking i.e. language, money, culture.

How to overcome them?

## QUESTION →

Do young scientists need international scientific societies in the era of the Internet and AI?

# Q & A.....

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# THANK YOU !



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