

**Fw: Semmelweis University Biomedical Data Science Conference and Summer School**

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ร่างจดหมาย

กองพัฒนามหาวิทยาลัยและกิจการต่างประเทศ  
มหาวิทยาลัยนครสวรรค์  
รับที่..... 0352  
วันที่..... 21 มี.ค. 2568 เวลา 10:59

From: Módos Diána (nemzetközi szakértő) <modos.diana@semmelweis.hu>  
Subject: Semmelweis University Biomedical Data Science Conference and Summer School  
Date: 20 March 2568 at 4:42:19 pm GMT+7  
Cc: SE - Biostatistikai és Hálózattudományi Intézet <biostat@semmelweis.hu>

Dear Colleagues,

We are pleased to invite you to the **BIOMEDICAL DATA SCIENCE Summer School and Conference**, organized by the Institute of Biostatistics and Network Science, Semmelweis University. This event consists of two interconnected and exciting opportunities: first, an intensive training program in health data science (July 28 – August 5), followed by a prestigious scientific conference (August 6 – 8), where researchers will share the latest advancements in data-intensive biological and medical research.

**Summer School: July 28 – August 5, 2025**

- **Description:** Intensive training in health data analytics with world-renowned speakers.
- **Modules:**
  - Medical data visualization
  - Biomedical network science
  - Machine learning for tabular medical data
  - Deep learning for unstructured medical data
- **Speakers:** Ferenc Krausz, Kosmas Kepesidis, Katy Börner, András Gézsi, Gergely Palla

**Application Deadlines:**

- **Early bird:** May 20, 2025
- **Final deadline:** June 30, 2025

**Conference: August 6–8, 2025**

- **Description:** A scientific conference focusing on data-intensive biological and medical research.
- **Keynote Speakers:** Katy Börner, Albert-László Barabási, Pál Maurovich-Horvat, Péter Horváth

**Relevant Topics:**

- Machine learning and AI applications in biomedical research
- Multi-omics data integration and analysis
- Medical imaging and computer vision in healthcare
- Natural language processing for clinical and biomedical texts
- Explainable AI and trustworthy machine learning in medicine
- Computational modeling of biological systems
- Wearable and sensor-based health data analytics
- Privacy-preserving techniques for biomedical data
- Digital health and personalized medicine
- Drug discovery and biomarker identification through data science
- Network science tools in biomedical research
- Causal inference in biomedical research
- Biostatistical approaches for biomedical data analysis

**Abstract Submission Deadline:** April 30, 2025

**Notification of Acceptance:** May 7, 2025

**Registration Deadlines:**

- **Early bird:** May 20, 2025
- **Final deadline:** June 30, 2025

**Organizer:**

Semmelweis University, Institute of Biostatistics and Network Science

Contact: [biostat@semmelweis.hu](mailto:biostat@semmelweis.hu)

More information: [biomed-data.semmelweis.hu](http://biomed-data.semmelweis.hu)

We look forward to welcoming you!

Best regards,

Diána Módos

กองกลาง สำนักงานอธิการบดี  
รับที่..... 204221  
วันที่..... 24 มี.ค. 2568  
เวลา..... 14:06 น.

๑ เขียน อธิกาขบศ

ด้วย the Institute of Biostatistics and Network Science, Semmelweis University, Hungary ประชาสัมพันธ์ การจัดกิจกรรม Biomedical Data Science Summer School and Conference ระหว่างวันที่ 28 กรกฎาคม ถึงวันที่ 8 สิงหาคม 2568 ณ Semmelweis University โดยมี รายละเอียดดังต่อไปนี้

1. Summer School ภายใต้หัวข้อ "Intensive Training in Health Data Analysis with World - Renowned Speakers" โดยจะจัดขึ้นระหว่างวันที่ 28 กรกฎาคม ถึงวันที่ 5 สิงหาคม 2568 โดยมีค่าลงทะเบียนท่านละ 850 ยูโร หากลงทะเบียนเข้าร่วมกิจกรรมภายในวันที่ 20 พฤษภาคม 2568

2. Conference ภายใต้หัวข้อ "A Scientific Conference Focusing on Data-Intensive Biological and Medical Research" โดยจะจัดขึ้นระหว่างวันที่ 6-8 สิงหาคม 2568 โดยผู้ที่สนใจสามารถส่งผลงานได้ถึงวันที่ 30 เมษายน 2568 และมีค่าลงทะเบียนท่านละ 350 ยูโร และ 60 ยูโร สำหรับ Gala Dinner หากลงทะเบียนเข้าร่วมการประชุม ภายในวันที่ 20 พฤษภาคม 2568

ทั้งนี้ หากมีความประสงค์ในการลงทะเบียนเข้าร่วม กิจกรรม Summer School และ Conference โดยมีแพคเกจ ค่าธรรมเนียมท่านละ 1,100 ยูโร รวม Gala Dinner เป็นที่เรียบร้อยแล้ว โดยสามารถศึกษารายละเอียดเพิ่มเติม และลงทะเบียนเพื่อเข้าร่วมกิจกรรมได้ตาม QR Code ที่ปรากฏ ข้างท้ายนี้ (รายละเอียดตามเอกสารแนบ)

จึงเรียนมาเพื่อโปรดพิจารณา และเห็นควรมอบกองพัฒนา ภาษาและกิจการต่างประเทศ เวียนแจ้งคณะวิทยาศาสตร์ คณะวิศวกรรมศาสตร์ และกลุ่มวิทยาศาสตร์สุขภาพ เพื่อประชาสัมพันธ์ต่อไป



ปัทมา  
24 มี.ค. 2568

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ลงชื่อ .....

(นายจิตรกฤษณ์ เทืองปรางค์)

ผู้อำนวยการกองพัฒนาภาษาและกิจการต่างประเทศ

วันที่ ๒๔ มีนาคม ๖๘

- ๒๕๖๘  
- หัว COE ฟ้าสีชมพู/ชมพู  
150 ๖๕๕. ๕๖๖๖

ลงชื่อ .....

(ดร.พิศุทธิ์ อภิษยกุล)

รองอธิการบดีฝ่ายวิเทศสัมพันธ์และการถ่ายทอดเทคโนโลยี  
ปฏิบัติราชการแทน อธิการบดีมหาวิทยาลัยนครสวรรค์

วันที่ ๒๔/๓/๖๘



**MS. DIANA MODOS**

SENIOR INTERNATIONAL PROJECT COORDINATOR

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**SEMMELWEIS**  
UNIVERSITY 1769

# BIOMEDICAL DATA SCIENCE

## SUMMER SCHOOL & CONFERENCE

July 28 to August 8, 2025

Semmelweis University, Budapest, Hungary

### SUMMER SCHOOL



July 28 to August 5,  
2025



7-day intensive  
training



Topics:

- Network Science
- Data Visualization
- Machine Learning
- Deep Learning

### CONFERENCE



August 6 to 8, 2025



Abstract submission  
deadline: April 30

#### CALL FOR PAPERS

The conference welcomes abstracts addressing a variety of data-intensive biological and medical research challenges

Join us for the BIOMEDICAL DATA SCIENCE Summer School & Conference 2025 — two interconnected events where students receive intensive training in health data science, followed by a scientific conference to share cutting-edge work in data-intensive biological and medical research.

## KEYNOTE SPEAKERS

### CONFERENCE



Katy  
Börner



Albert-László  
Barabási



Pál Maurovich-  
Horvat



Péter  
Horváth

### SUMMER SCHOOL



Ferenc  
Krausz



Kosmas  
Kepesidis

[biomed-data.semmelweis.hu](http://biomed-data.semmelweis.hu)



SEMMELWEIS  
UNIVERSITY 1769

# BIOMEDICAL DATA SCIENCE

## SUMMER SCHOOL & CONFERENCE

July 28 to August 8, 2025

Semmelweis University, Budapest, Hungary


## CONFERENCE

August 6 to 8, 2025

### CALL FOR ABSTRACTS

The conference welcomes abstracts addressing data-intensive biological and medical research challenges, including but not limited to:

- Machine learning and AI applications in biomedical research
- Multi-omics data integration and analysis
- Medical imaging and computer vision in healthcare
- Natural language processing for clinical and biomedical texts
- Explainable AI and trustworthy machine learning in medicine
- Computational modeling of biological systems
- Wearable and sensor-based health data analytics
- Privacy-preserving techniques for biomedical data
- Digital health and personalized medicine
- Drug discovery and biomarker identification through data science
- Network science tools in biomedical research
- Causal inference in biomedical research
- Biostatistical approaches for biomedical data analysis

 Abstract submission  
deadline: April 30

## SUMMER SCHOOL LECTURERS & COURSES

July 28 to August 5, 2025



**Katy Börner**  
Medical Data  
Visualization



**Kosmas Kepesidis**  
Deep Learning for  
Unstructured  
Medical Data



**András Gézsi**  
Machine Learning  
for Tabular Medical  
Data



**Gergely Palla**  
Biomedical Network  
Science



Early bird registration  
deadline: May 20, 2025

[biomed-data.semmelweis.hu](https://biomed-data.semmelweis.hu)

# BIOMEDICAL DATA SCIENCE SUMMER SCHOOL

July 28 to August 5, 2025

Semmelweis University, Budapest, Hungary

# SUMMER SCHOOL

How can networks help us identify critical relationships in biomedical systems? How can we uncover hidden connections between genes and predict disease pathways? How can visualizing medical data improve diagnostics and treatment outcomes? How can machine learning and deep learning models transform the analysis of complex medical data?

If you're eager to explore these questions, join us at the Biomedical Data Science Summer School! This program equips participants with the theoretical foundation and practical skills to apply **network science, data visualization, and machine learning** to real-world **biomedical** challenges.

The curriculum focuses on four key areas:

## 1. Biomedical Network Science

Learn how networks can model relationships between genes, proteins, diseases, and patient data to uncover patterns and predict interactions.

## 2. Medical Data Visualization

Explore practical methods for creating clear, interactive visualizations of complex medical datasets, improving interpretability and decision-making.

## 3. Machine Learning on Tabular Medical Data

Apply machine learning techniques to structured datasets, such as electronic health records, to predict outcomes and identify risk factors.

## 4. Deep Learning on Unstructured Medical Data

Gain hands-on experience with deep learning models to analyze unstructured data, including medical images, text, and genomic sequences.

## GROUP PROJECTS

Participants will **work in teams** on **data-driven projects**, applying what they learn in the courses. **Mentors will provide guidance**, and teams will **present their results to an expert jury** at the end of the program.

Dedicated time is set aside for project work and presentations, ensuring a

# CREDITS INFO

Participants who successfully complete the summer school will be awarded **4 ECTS**. A **certificate of completion** will be provided by Semmelweis University, which can facilitate credit transfer to your home institution.

# PREREQUISITES

- Participants are expected to have a good command of both spoken and written **English**.
- They should be comfortable programming in **Python**, as the language will be used throughout the course.  
For those who are not familiar with Python, it is highly recommended that they watch **online tutorial videos** or complete an introductory online course before attending.
- **Basic** knowledge of **mathematics** and **statistics** is also beneficial. If you feel like you need a refresher, we recommend **this video**.

# REGISTRATION INFO



- Early bird: **850 EUR** (deadline: May 20, 2025)
- Standard: **950 EUR** (deadline: June 30, 2025)

## **SUMMER SCHOOL & CONFERENCE BUNDLE**

- Early bird: **1,100 EUR**
- Standard: **1,250 EUR**

### **FEE INCLUDES:**

- Application fee for courses and course material
- Coffee breaks and daily lunch
- Exciting social activities
- Certificate of attendance

### **FEE DOES NOT INCLUDE:**

- Travel expenses
- Accommodation costs
- Meals (except lunch)
- Insurance and personal expenses
- Extra activities (not included in the program)

Ready to take part in the **Biomedical Data Science Summer School**?

Register now using the button below!

As part of the registration process, applicants are **required to upload their CVs**. This helps us understand your background, skills, and interests so we can tailor the course content to better match the experience levels of our participants.

Click the button below to start your application — **we look forward to having you on board!**

**REGISTER →**

If you wish to finance your participation in our event(s) through your university, department, or a European Union grant, and require an official confirmation, please indicate this in the "Additional Information" section at the bottom of the registration form.



# BIOMEDICAL DATA SCIENCE CONFERENCE

August 6 to August 8, 2025

Semmelweis University, Budapest, Hungary

We invite submissions for the Biomedical Data Science Conference in three presentation formats:

- **Regular Talk** – Full-length presentation
- **Lightning Talk** – Short, focused presentation
- **Poster** – Visual presentation and discussion

During submission, authors can indicate their **preferred format(s)**, but final acceptance and presentation type will be determined by the program committee based on availability and fit.

We kindly ask that abstracts be submitted on the **abstract submission** page. Each author may present a maximum of two abstracts; however, there are no restrictions on co-authorship or the total number of abstracts submitted. All abstracts must be submitted in **English**. Please do not submit duplicate copies of the same abstract. All abstracts will be forwarded to the Scientific Program Committee for review.

After the review by the Scientific Program Committee, the authors will be **notified of the results by May 7, 2025**.

If an abstract is accepted, the presenter **must register and pay the registration fee by July 4, 2025**, for the abstract to be included in the conference program. For the payment details, scroll down to the next section or check the [REGISTRATION](#) page.

## ABSTRACT REQUIREMENTS

Since abstracts will be published in the Conference Final Program and Abstract Book (with ISBN), authors are requested to adhere to the following guidelines:

**Language:** English

**Abstract word limit:** 400 words (excluding authors' names and affiliations)

1. abstract should be **structured** and divided into the following sections:

- BIOMED-DATA 25 ABOUT SUMMER SCHOOL CONFERENCE
- **Introduction**
- **Objectives**
- **Methods**
- **Results**
- **Conclusion**

The text may include references, provided the total word count does not exceed the 400-word limit mentioned above.

## REGISTRATION INFO

### REGISTRATION FEES

- Early bird: **350 EUR** (+60 EUR for the gala dinner)  
deadline: May 20, 2025
- Standard: **400 EUR** (+60 EUR for the gala dinner)  
deadline: June 30, 2025

### SUMMER SCHOOL & CONFERENCE BUNDLE

- Early bird: **1,100 EUR** (Gala dinner included)
- Standard: **1,250 EUR** (Gala dinner included)

- Attending/presenting at the conference
- Book of Abstracts with ISBN
- Coffee breaks and daily lunch
- Reception with exhibition
- Certificate of attendance

#### FEE DOES NOT INCLUDE:

- Travel expenses
- Accommodation costs
- Meals (except lunch)
- Insurance and personal expenses
- Extra activities (not included in the program)

**REGISTER →**

If you wish to finance your participation in our event(s) through your university, department, or a European Union grant, and require an official confirmation, please indicate this in the "Additional Information" section at the bottom of the registration form.

# CONFERENCE PROGRAM

August 6 to August 8, 2025

Semmelweis University, Budapest, Hungary



Registration

9:00 AM - 9:40 AM

**Keynote speaker 1: Katy Börner** 

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9:40 AM - 10:30 AM

**Session 1/1**

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10:30 AM - 11:00 AM

Coffee break

11:00 AM - 12:30 PM

**Session 1/2**

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12:30 AM - 2:00 PM

Lunch break

2:00 PM - 2:40 PM

**Keynote speaker 2: Albert-László Barabási**

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2:40 PM - 3:30 PM

**Session 2/1**

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3:30 PM - 4:00 PM

Coffee break

4:00 PM - 5:30 PM

**Session 2/2**

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**Poster**



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6:30 PM - 9:00 PM

**Exhibition by Katy Börner and Reception**



**THURSDAY (August 7)**

9:00 AM - 9:40 AM

**Keynote speaker 3: Pál Maurovich-Horvat**



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9:40 AM - 10:30 AM

**Session 3/1**



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10:30 AM - 11:00 AM

Coffee break

11:00 AM - 12:30 PM

**Session 3/2**



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12:30 AM - 2:00 PM

Lunch break

2:00 PM - 2:40 PM

**Keynote speaker 4: Albert-László Barabási**



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2:40 PM - 3:30 PM

**Session 4/1**



Coffee break

4:00 PM - 5:30 PM

**Session 4/2**



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5:30 PM - 6:30 PM

**Poster**



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7:00 PM - 9:30 PM

**Gala dinner**



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**FRIDAY (August 8)**

9:00 AM - 9:40 AM

**Keynote speaker 5: Péter Horváth**



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9:40 AM - 10:30 AM

**Session 4/1**



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10:30 AM - 11:00 AM

Coffee break

11:00 AM - 12:30 PM

**Session 4/2**

