

István Gellért Magyary



MSc Bioinformatics Student

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[Website](#) | [LinkedIn](#) | [GitHub](#) | [Medium](#) | [Buy me a coffee](#)

Education

MSc in Bioinformatics

Pázmány Péter Catholic University (2024–)

Thesis title: Epigenetic rejuvenation during embryogenesis

Relevant coursework: Data Mining and Machine Learning, Biostatistics, Parallel Programming, Quantitative Biology, Scientific Python

BSc in Biology

University of Szeged (2024)

Thesis title: Investigating the Relationship Between the Human Metabolome and Diseases Using the UK Biobank Dataset

Professional & Research Experience

Research Student

*BRC, Szeged / Computational Systems Biology Lab
2021–2025*

- Developed predictive survival models for multiple disease and metabolite level associations

Languages

- **English:** Fluent (C1 certificate)

Publications

- *Poster:* Lilla Széles, István Magyary et al.
What does the evolution of the mammalian metabolome reveal about human diseases?
Straub-Days, 2023
- *Poster:* István Magyary et al.
Different shapes of blood biomarker and disease risk relationships
Straub-Days, 2025

Achievements & Awards

- **2021–2025:** National Academy of Scientific Education – Szent-Györgyi Student Fellowship
 - **2023 Autumn:** SZTE Local Medical TDK – Participation
 - **2024 Spring:** SZTE Local Biology TDK – Finalist
 - **2025:** Biology OTDK – Participation
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Technical Skills

- **Programming:** Python (NumPy, Pandas, scikit-learn, PyTorch), R (tidyverse)
 - **Data Analysis:** Multi-modal integration (EHR, omics), statistical modeling
 - **Tools:** Jupyter Notebook, Git, Linux/HPC
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Volunteer & Teaching Experience

- Student mentoring at **HÖÖK Mentorprogram**
- Scouting – Patrol leader at **Kaposvár** (2015–2024)