

# Martin Ferenc Dömény

Research Intern

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## Profiles

[in](#) [Martin Ferenc Dömény](#)  
LinkedIn

[R<sup>g</sup>](#) [Martin Ferenc Dömény](#)  
ResearchGate

[📖](#) [Martin Ferenc Dömény](#)  
Google Scholar

## Experience

**Óbuda University** 2022 - Present  
Research Intern Budapest

- Physiological Controls Research Center (PhysCon)

**Óbuda University** 2022 - Present  
Teaching Assistant

- Introduction to Computer Architectures (2022 - 2023)
- System Theory (2023 - Present)
- Control Theory (2023 - Present)

## Education

**Óbuda University** 2024 - Present  
Computer Science Engineering Msc.

**Óbuda University** 2019-2024  
Computer Science Engineering Bsc.

**Jade Hochschule** August 2023- September 2023  
Biomedical Engineering Summer School Erasmus

- Biomechanics
- Brain-Computer Interfaces
- Project Management

## Skills

### Programming

C#, LaTeX, MATLAB, Python, SQL, Arduino, Java, C++

### Embedded systems

Arduino, Electronics, Node-RED, MQTT

### Publication Writing

LaTeX, Documentation, Presentation

### Data Science

MATLAB, Python, AI, Evolutionary Algorithms, Optimization

## Certifications

**NVIDIA DLI Certificate – Fundamentals of Deep Learning** December 2023  
NVIDIA Deep Learning Institute  
<https://courses.nvidia.com/certificates/811dd8715f33464f8360adba2355dedf/>

## Awards

**TDK I. place** November 2023  
Óbuda University

**TDK I. place** May 2023  
Óbuda University

**IEEE HS Student Paper Contest Bsc. II. place** March 2024  
IEEE Hungary Section

- TDK thesis titled "Kemoterápiás kezelések in silico optimalizálása genetikus algoritmusal"

**New National Excellence Program Scholarship** September 2023- July 2024  
Óbuda University

**NFÖ Scholarchip** September 2023 - July 2024  
Óbuda University

**Óbuda University Scholarship** 2022 - July 2024  
Óbuda University

## Publications

**In silico chemotherapy optimization with genetic algorithm** May 2023  
2023 IEEE 17th International Symposium on Applied Computational Intelligence and Informatics (SACI)  
<https://ieeexplore.ieee.org/document/10158619>

**Population-Based Chemotherapy Optimization Using Genetic Algorithm** September 2023  
2023 IEEE 21st Jubilee International Symposium on Intelligent Systems and Informatics (SISY)  
<https://ieeexplore.ieee.org/document/10417965>

**Mastering Control: A Digital Toolkit for Understanding PID Controllers** November 2023  
2023 IEEE 23rd International Symposium on Computational Intelligence and Informatics (CINTI)  
<https://ieeexplore.ieee.org/document/10381906>

## Languages

**Hungarian (Native)**

**English (C1)**

**Russian (A2)**