

# FOITOS ANDREI-MIRCEA

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## EDUCATION

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University of Groningen 2025 — 2027 (Expected)

Faculty of Science and Engineering

- Master's in **Artificial Intelligence**
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University of Groningen 2022 — 2025

Faculty of Science and Engineering

- Bachelor's in **Artificial Intelligence**
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National College "Gheorghe Sincai", Cluj-Napoca 2018 — 2022

Mathematics and Informatics

- Baccalaureate Diploma
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## EXPERIENCE

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*(Academic and independent research projects)*

**Bachelor's Project —** *Disentangling Aleatoric and Epistemic Uncertainty in Regression*

- Investigated the behavior of **aleatoric and epistemic uncertainty** in a **face-age recognition** task.
  - Implemented **DenseNet121** for age prediction.
  - Achieved a **grade of 9** for the project.
  - Paper: University of Groningen Repository
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**O<sub>3</sub> and NO<sub>2</sub> Forecasting**

- Developed a forecasting model to predict **ozone (O<sub>3</sub>)** and **nitrogen dioxide (NO<sub>2</sub>)** concentrations **three days ahead**.
  - Built a **user-friendly interface** for residents to check air quality based on **WHO guidelines**.
  - Received a **grade of 9.5**.
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**Generating Drumming Patterns Using a Feedforward Neural Network**

- Designed and trained a **Feedforward Neural Network (FNN)** to generate **drum sequences** from MIDI data.
  - Produced rhythmically coherent and musically plausible sequences from seed inputs.
  - Received a **grade of 8**.
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## Applying Temporal Decay to DQN + PER

- Enhanced a **Dueling Deep Q-Network (DQN)** with **Prioritized Experience Replay (PER)** by introducing **temporal decay**.
  - Applied an **exponential decay factor** to prioritize recent transitions, improving agent learning efficiency.
  - Received a **grade of 8.5**.
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## Insights Dashboard for Neolook

- Developed a **full-stack web application** to monitor and analyze data from **neonatal intensive care units**.
  - The app is currently used by **Neolook**.
  - Worked as a **full-stack developer** in a **collaborative, company-like environment**.
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## WORK EXPERIENCE

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### Electric Castle Festival

Cluj-Napoca, 2024

#### Bartender

- Provided fast and friendly service in a high-pressure festival environment.
  - Managed transactions efficiently and ensured hygiene and safety standards.
  - Collaborated closely with teammates to keep bar operations smooth.
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### Electric Castle Festival

Cluj-Napoca, 2023

#### Event Helper

- Assisted with event setup, logistics, and coordination between vendors.
  - Ensured smooth operations during one of Romania's largest music festivals.
  - Strengthened teamwork and communication skills under pressure.
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### Auchan Retail Romania

Cluj-Napoca, 2017 – 2018

#### Store Assistant (Part-Time)

- Stocked shelves, managed inventory, and assisted customers with inquiries.
  - Maintained store organization and supported daily operations.
  - Developed strong attention to detail and time management skills.
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## SKILLS

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**Programming Languages:** Python, Java, C, C++, SQL, Lisp

**Web Development:** HTML, CSS, TypeScript, JavaScript, React, Django, REST, JWT, Angular, PrimeNG, Tailwind CSS

**Other Tools:** Git, Docker, Scrum, Agile, Conda, Microsoft Office

**Operating Systems:** Windows, Linux, Ubuntu

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## ACHIEVEMENTS

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- **World Karate Champion** — 2020, 2021, 2023
- **European Karate Champion** — 2020, 2021, 2022, 2023