

# FROMSA TESHOME NEGASA

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## OBJECTIVE

Seeking a Master's Thesis Internship with the goal of pursuing a PhD in the field of AI applications, particularly in computer vision, and biomedical imaging. Eager to contribute to innovative projects and leverage advanced technologies to drive progress in these interdisciplinary areas.

## EDUCATION

- **ERASMUS MUNDUS JOINT MASTER'S DEGREE (EMJMD)** September 2023 – Ongoing  
*EMJMD in Photonics for Security Reliability Sustainability and Safety (PSRS)* [🔗](#)  
Saint-Étienne, France
  - Earned 30 ECTS credits at Université Jean Monnet with a grade of 16.13/20
  - Earned 37 ECTS credits at University of Eastern Finland with 4.8 / 5 grade
  - Currently enrolled in the 3rd semester of the program at UPEC specializing in biometrics and computer vision
- **TIANJIN UNIVERSITY** June 2022  
*Bachelor of Engineering in Chemical Engineering and Technology* Tianjin, China
  - Completed a Propaedeutic Education program in Chinese Language prior to commencing major coursework
  - Earned 175 credits with a GPA of 3.01 / 4.00
- **UNIVERSITY OF THE PEOPLE** January 2025  
*Associate of Science in Computer Science* Online
  - GPA: 3.59 / 4.00

## EXPERIENCE

- **LISSI Laboratory and IMRB (Mondor Institute of Biomedical Research)** October 2024 – Ongoing  
*M2 Research Internship* Paris, France
  - Developing ML/DL methods to analyze cell migration patterns in Duchenne Muscular Dystrophy research
  - Implementing automated tracking systems to study myoblast migration through optical microscopy data
  - Collaborating with interdisciplinary teams to evaluate disease progression using cell migration analysis
- **Tianjin University** September 2022 – August 2023  
*Graduate Student Assistant, School of Chemical Engineering* Tianjin, China
  - Developed ML models for industrial applications and image processing at SMART Bio-informatics Lab

## PROJECTS

- **GoogLeNet on Labeled Faces Wild (LFW) Dataset** November 2024  
*Tools: GoogLeNet, TensorFlow, GPU, Python* [🔗](#)
  - Trained a GoogLeNet model for face recognition on the LFW dataset over GPU
- **Face Verification and Face Recognition GUI Application** October 2024  
*Tools: OpenCV, PyQt5, SQL, Python* [🔗](#)[🔗](#)
  - Built a GUI application to verify two faces
  - Integrated database-backed face recognition into a GUI application
- **Text-Based LLM Chat Interface and Multi-Modal LLM App with Text and Image Inputs** October 2024  
*Tools: Python, Colab, ngrok, FastAPI* [🔗](#)[🔗](#)
  - Developed a GUI for LLMs with text and image inputs through Colab-hosted APIs.
- **Hyperspectral Imaging: Spectral Image Analysis** April 2024  
*Tools: Nuance Ex-VIS Camera, MATLAB* [🔗](#)
  - Captured and analyzed spectral images with a Nuance Ex-VIS camera under simulated daylight.
- **Undergraduate Thesis Project: Amharic Character Recognition with U-Net** January 2022 - June 2022  
*Tools: Sequential CNN, Factored CNN, U-Net, Python* [🔗](#)
  - Pre-processed datasets from literature sources and implemented on different architectures.
  - Achieved 93% accuracy on Amharic character recognition.
- **IChemE Process Design Project: Process Simulation and Optimization** November 2021 - June 2022  
*Tools: Aspen Plus, AutoCAD*
  - Optimized vertical flash drum equipment sizing and developed a comprehensive process flow by integrating P&IDs.
- **Research Project: China-ASEAN Online Program on Data Science and Big Data** September 2020 - December 2020  
*Tools: Python, Keras* [🔗](#)
  - Led a four-person research team on Named Entity Recognition (NER) in Natural Language Processing.
  - Designed and implemented NLP models for entity extraction and classification.

## SKILLS

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- **Programming Languages:** Python, MATLAB, Java, Kotlin
- **Deep Learning and Computer Vision Frameworks:** TensorFlow, OpenCV, PyTorch
- **Web & Database Technologies:** HTML, CSS, JavaScript, SQL
- **Other Tools & Technologies:** Microsoft Office, L<sup>A</sup>T<sub>E</sub>X(Overleaf), GitHub
- **Research Skills:** Literature Review, Data Analysis, Good Laboratory Practice, Problem Solving
- **Languages:** English (Duolingo: 135/IELTS: 7.0), Mandarin Chinese (HSK 5), Amharic (Native)

## HONORS AND AWARDS

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- **Erasmus Mundus Joint Master's Degree Scholarship** September 2023  
*Education, Audiovisual and Culture Executive Agency, European Commission* [!\[\]\(31b03e46ee8a80a1f1467b8c03bd76e8\_img.jpg\)](#)
  - Associated with Erasmus Mundus Joint Master Degree Photonics for Security Reliability and Safety (PSRS)
- **Distinguished International Student Award** July 2018  
*Tianjin University*
  - Awarded the Full Attendance Scholarship and the Second Prize Scholarship of Propaedeutic Education of Chinese Language.
- **Chinese Government Scholarship** September 2017  
*Chinese Scholarship Council* [!\[\]\(7d9665ff04f9d2270c38081c6215a724\_img.jpg\)](#)
  - Associated with Tianjin University, School of Chemical Engineering

## CERTIFICATIONS

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- Android Developer Fundamentals, *Udacity*, [!\[\]\(815df092dd722ee9268ef8e6d0193e3a\_img.jpg\)](#) Oct 2024
- OpenCV Bootcamp, *OpenCV University*, [!\[\]\(c72edb9626cad660f3a9f5fb0f22a68c\_img.jpg\)](#) Feb 2024
- Google Data Analytics Professional Certificate, *Google via Coursera*, [!\[\]\(0c564128c6342bd2f601e97f4518828a\_img.jpg\)](#) Jun 2023
- MATLAB Onramp, *MathWorks*, [!\[\]\(5cb79a1c9acdf5d94bce345803852578\_img.jpg\)](#) Mar 2023
- Chinese Proficiency Test, HSK (Level 5), *Center for Language Education and Cooperation*, [!\[\]\(cc23775bf31a648cde5902baa397f9aa\_img.jpg\)](#) May 2022
- Machine Learning, *Stanford University via Coursera*, [!\[\]\(0f607256894bb1ede5f4e367e10faa26\_img.jpg\)](#) Apr 2021

## REFERENCES

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1. **Nathalie Destouches**  
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