

DOMNULE DIRECTOR,

Subsemnata, **Pavel Irina, student doctorand** la Facultatea de **Electronică, Telecomunicații și Tehnologia Informației**, admis la doctorat în anul **2021**, vă rog să-mi aprobați candidatura pentru ocuparea poziției de **membru al Consiliului pentru Studiile Universitare de Doctorat (CSUD)** din cadrul IOSUD-Universitatea Tehnică „Gheorghe Asachi” din Iași, legislatura 2024-2029.

Anexez dosarul de candidatură care conține următoarele documente:

- CV Europass.

(Data)

04.06.2024

(Semnătura)

drd. Ing. Irin Pavel

Domnului Director al CSUD-IOSUD TUIASI



Irina Pavel

Data nașterii: [REDACTED] | **Cetățenie:** română | **Număr de telefon:** [REDACTED]
E-mail: irina.pavel@etti.tuiasi.ro | **LinkedIn:** <https://www.linkedin.com/in/irina-pavel-a83901165/> |
Adresă: Bd. Carol I nr. 11A , 700506, Iasi, România (Muncă)

EXPERIENȚA PROFESIONALĂ

10/2023 – ÎN CURS

ORE DE LABORATOR UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI, ETTI, IAȘI, ROMÂNIA

Elemente de inteligență artificială (Anul 1, Master) | Information Theory (Anul 2, Licență, program în limba engleză)

03/2023 – ÎN CURS

STUDENT REPREZENTANT INGENIUM - EUROPEAN UNIVERSITY

WP5 Innovation Committee, echipa TUIASI: Iulian Aurelian Ciocoiu, Adrian Alexandrescu, Irina Pavel

06/2023 – 11/2023

CO-FONDATOR & MACHINE LEARNING MINODORA, IAȘI, ROMÂNIA

Startup pentru producția de haine inteligente pentru monitorizarea semnelor vitale ale nou-născuților.
Launch 2023, How To Web Conference 2023, Romanian AI Days 2023, Health Innovation Zone by Digital Innovation Zone.

07/2023 – 08/2023

VIZITĂ DE CERCETARE INSTITUTUL FRAUNHOFER IPA - CLINICAL HEALTH TECHNOLOGIES, MANNHEIM, GERMANIA

Măsurarea parametrilor precum latența, banda, fiabilitatea rețelei 5G optimizată pentru mediul medical-clinic.

06/2018 – 08/2018

INTERN SUDOTECHS STARTUP, CAIRO, EGIPT

R&D, IOT, Robotică , Educație, Fabricație Digitală, Global Entrepreneur AIESEC

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

10/2021 – ÎN CURS

STUDII UNIVERSITARE DE DOCTORAT Universitatea Tehnică "Gheorghe Asachi" din Iași, Iași, România

- Curs de scriere academică (Școala Doctorală TUIASI)
- Health Innovation Zone by Digital Innovation Zone
- Imago-Mol cluster (Hack the funding days, workshopuri din domeniul inteligenței artificiale în medicină)
- BrainTwin - A Horizon 2020 funded Twinning action
- Reducerea abandonului școlar al studenților din anul I prin activități remediale și de consiliere în cadrul Centrului de Învățământ în cadrul grantului TUIAȘI (decembrie 2022), *Irina Pavel, student tutore*

Domeniu de studiu Facultatea de Electronică, Telecomunicații și Tehnologia Informației, Deep learning algorithms in medical applications

03/2024 – 05/2024

DOCTALENT4EU SUMMER SCHOOL ON ENHANCING COMMUNICATION AND NEGOTIATION SKILLS FOR PHD CANDIDATES (25.03.2024 - 30.05.2024), UNIVERSITY OF LIMERICK, IRELAND University of Limerick, Ireland

10/2021 – 06/2023

CURSURI ORGANIZATE DE DEPARTAMENTUL PENTRU PREGĂTIREA PERSONALULUI DIDACTIC, NIVEL I ȘI NIVEL II Universitatea Tehnică "Gheorghe Asachi" din Iași, Iași, România

10/2019 – 07/2021

DIPLOMĂ DE MASTERAT Universitatea Tehnică "Gheorghe Asachi" din Iași, Iași, România

Electrocardiogram Signals Synthesis using Generative Adversarial Networks

Domeniu de studiu Facultatea de Electronică, Telecomunicații și Tehnologia Informației, Information technologies for telecommunications (IT4T) – în limba engleză

10/2019 – 08/2020

MOBILITATE ERASMUS+ Reutlingen University, Reutlingen, Germania

Driver's Fatigue Detection using a single-channel EEG OpenBCI

Domeniu de studiu Mechatronică

10/2015 – 07/2019

DIPLOMĂ DE LICENȚĂ Universitatea Tehnică "Gheorghe Asachi" din Iași, Iași, România

LS ETC | Clubul de Electronică | Practică de vară - ANCOM (Autoritatea Națională pentru Administrare și Reglementare în Comunicații) | Proiectul Do IT&C | Continental Learning Laboratories

Domeniu de studiu Facultatea de Electronică, Telecomunicații și Tehnologia Informației, Telecommunication Technologies and Systems - în limba engleză

10/2016 – 02/2017

MOBILITATE ERASMUS+ Universidade do Minho, Guimarães, Portugalia

Curs de limba portugheză

Domeniu de studiu Masterat integrat în Ingineria Telecomunicațiilor și Informatică

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **ROMÂNĂ**

Altă limbă (Alte limbi):

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
ENGLEZĂ	C2	C2	C2	C2	C2
RUSĂ	A2	A2	A1	A1	A1
SPANIOLĂ	B1	B1	B1	B1	A1
PORTUGHEZĂ	A2	A2	A1	A1	A1

Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat

PERMIS DE CONDUCERE

Permis de conducere: B

VOLUNTARIAT

10/2015 – 12/2017

Membru activ și coordonator de proiecte - Liga Studenților Electroniști din Iași - LS ETC

INFORMAȚII ACADEMICE

Afilieri Academice

Membru IEEE nr. 98537253, IEEE Young Professionals

Publicații și conferințe

1. I. Pavel and I. B. Ciocoiu, "Evaluation of Bag-of-Words Classifiers for COVID-19 Detection from Cough Recordings," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991276.
2. Pavel, I.; Ciocoiu, I.B. "COVID-19 Detection from Cough Recordings Using Bag-of-Words Classifiers". Sensors 2023, 23, 4996. <https://doi.org/10.3390/s23114996>
3. I. Pavel, "Ethical Considerations of Artificial Intelligence Algorithms in Medicine", 2023 6th International Conference of the Doctoral School, Iasi, Romania
4. I. Pavel, I. Ciocoiu, "State-of-the-art deep learning approaches to early detection of Alzheimer's Disease", 2023 6th International Conference of the Doctoral School, Iasi, Romania
5. I. Pavel and I. B. Ciocoiu, "COVID-19 Detection from Cough Recordings Using Spatial Representations and Convolutional Neural Networks," 2023 18th Iberian Conference on Information Systems and Technologies (CISTI), Aveiro, Portugal, 2023, pp. 1-4, doi: 10.23919/CISTI58278.2023.10211679.
6. I. Pavel and I. B. Ciocoiu, "COVID-19 Detection Using ECG Signals and Bag-of-Words Classifier," 2023 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2023, pp. 1-4, doi: 10.1109/ISSCS58449.2023.10190963.
7. I. Pavel and I.B. Ciocoiu, Forearm electromyogram-based biometrics using bag-of-words classifiers, 2024 7th International Conference of the Doctoral School, Iasi, Romania

Certificări și calificări

1. **Intro to AI Ethics**, Kaggle, 2022
2. **Fundamentals of Deep Learning**, NVIDIA, Certificate ID Number: 24e07daa732b4e1b9effead880c4403e, 2022
3. **AI for Medicine Specialization**, Coursera, Credential ID DRGJDSVE3VAB, 2021
4. **Generative Adversarial Networks (GANs) Specialization**, Coursera, Credential ID 46QQLJWFAFU, 2021
5. **Neural Networks and Deep Learning**, Coursera, Credential ID SCH8EREHMS9F, 2021
6. **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization**, Coursera, Credential ID LBWSBTU67W5F, 2021
7. **Structuring Machine Learning Projects**, Coursera, Credential ID Q8N7VMTX4HYY, 2021
8. IELTS (International English Language Testing System), British Council, 2014

APTITUDINI

Digitale

Python, MATLAB, Linux OS Basics, LaTeX, Deep Learning, Machine Learning, Microsoft Office

Abilități de comunicare și abilități profesionale

Bun comunicator, fire idealistă, investigatoare și empatică | spirit de echipă.



Irina Pavel

Date of birth: [REDACTED] | **Nationality:** Romanian | **Phone number:** [REDACTED]
Email address: irina.pavel@student.tuiasi.ro | **LinkedIn:** <https://www.linkedin.com/in/irina-pavel-a83901165/> | **Address:** Romania (Home)

WORK EXPERIENCE

10/2023 – CURRENT

LABORATORY CLASSES "GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IASI, IASI, ROMANIA

Elements of Artificial Intelligence Laboratory (WS) | Information Theory Laboratory (SS) - English section

03/2023 – CURRENT

STUDENT REPRESENTATIVE INGENIUM - EUROPEAN UNIVERSITY

WP5 Innovation Committee, TUIASI team: Iulian Ciocoiu, Adrian Alexandrescu, Irina Pavel

06/2023 – 11/2023

CO-FOUNDER & MACHINE LEARNING MINODORA, IASI, ROMANIA

Manufacturing of smart clothes for monitoring the vital signs of newborns.

Launch 2023, HOW TO WEB 2023 conference, Health Innovation Zone by Digital Innovation Zone 2023 program, Romanian AI Days 2023

07/2023 – 08/2023

RESEARCH VISIT FRAUNHOFER INSTITUTE IPA - CLINICAL HEALTH TECHNOLOGIES, MANNHEIM, GERMANY

Measuring parameters such as latency, bandwidth, and reliability of the 5G network optimised for the clinical environment.

06/2018 – 08/2018

INTERN SUDOTECHS STARTUP, CAIRO, EGYPT

R&D, IOT, Robotics, Education, and Digital Fabrication, Global Entrepreneur AIESEC Project

EDUCATION AND TRAINING

10/2021 – CURRENT

DOCTORAL STUDIES "Gheorghe Asachi" Technical University of Iasi

Field: Medical applications of deep learning algorithms

Supervisor: Prof. Iulian-Aurelian Ciocoiu, PhD

Activities:

- Academic writing course (TUIASI Doctoral School)
- Imago-mol Cluster
- BrainTwin - A Horizon 2020 funded Twinning action
- Reduction of School Dropout of First Year Students through Remedial and Counseling Activities in the Learning Center within TUIAȘI Grant (2022), Prof. Neculai Eugen Seghedin, PhD, grant director, *Irina Pavel*, **student tutor**

25/03/2024 – 30/05/2024

DOCTALENT4EU SUMMER SCHOOL ON ENHANCING COMMUNICATION AND NEGOTIATION SKILLS FOR PHD CANDIDATES University of Limerick, Ireland

10/2021 – 06/2023

PSYCHO-PEDAGOGICAL TRAINING Department for Teacher Training, "Gheorghe Asachi" Technical University of Iasi

10/2019 – 08/2020

ERASMUS+ STUDY MOBILITY Hochschule Reutlingen – Reutlingen University, Reutlingen, Germany

Driver's Fatigue Detection using a single-channel EEG OpenBCI Project

10/2019 – 06/2021

MASTER'S STUDIES "Gheorghe Asachi" Technical University of Iasi

Faculty of Electronics, Telecommunications and Information Technology, English section

Thesis: Electrocardiogram signals synthesis using Generative Adversarial Networks

Activities: 1st Student BarCamp taking place from May 26-27, 2021, first prize with the idea *Early detection and automatic classification of neurological disorders using retinal imaging and AI algorithms*

10/2016 – 02/2017

ERASMUS+ STUDY MOBILITY Universidade do Minho - University of Minho, Guimaraes, Portugal

10/2015 – 06/2019

BACHELOR'S STUDIES "Gheorghe Asachi" Technical University of Iasi

Faculty of Electronics, Telecommunications and Information Technology, English section

Thesis: Handwritten digits recognition using artificial neural networks

Activities:

- Active member and Project coordinator | Electronic Students League of Iasi - LS ETC
- Electronics Club
- ANCOM Summer Practice
- DO IT&C Project

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
SPANISH	B1	B1	A2	A2	A1
RUSSIAN	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Python | MATLAB | Linux OS | LaTeX | Deep Learning | Machine Learning | Microsoft Office | Windows OS

NETWORKS AND MEMBERSHIPS

Academic Affiliations

IEEE Member no. 98537253, IEEE Young Professionals

Publications and Conferences

1. I. Pavel and I. B. Ciocoiu, "Evaluation of Bag-of-Words Classifiers for COVID-19 Detection from Cough Recordings," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991276.
2. Pavel, I.; Ciocoiu, I.B. "COVID-19 Detection from Cough Recordings Using Bag-of-Words Classifiers". Sensors 2023, 23, 4996. <https://doi.org/10.3390/s23114996>
3. I. Pavel, "Ethical Considerations of Artificial Intelligence Algorithms in Medicine", 2023 6th International Conference of the Doctoral School, Iasi, Romania
4. I. Pavel, I. Ciocoiu, "State-of-the-art deep learning approaches to early detection of Alzheimer's Disease", 2023 6th International Conference of the Doctoral School, Iasi, Romania
5. I. Pavel and I. B. Ciocoiu, "COVID-19 Detection from Cough Recordings Using Spatial Representations and Convolutional Neural Networks," 2023 18th Iberian Conference on Information Systems and Technologies (CISTI), Aveiro, Portugal, 2023, pp. 1-4, doi: 10.23919/CISTI58278.2023.10211679.
6. I. Pavel and I. B. Ciocoiu, "COVID-19 Detection Using ECG Signals and Bag-of-Words Classifier," 2023 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2023, pp. 1-4, doi: 10.1109/ISSCS58449.2023.10190963.
7. I. Pavel and I.B. Ciocoiu, Forearm electromyogram-based biometrics using bag-of-words classifiers, 2024 7th International Conference of the Doctoral School, Iasi, Romania

- **COMMUNICATION AND INTERPERSONAL SKILLS**

Good communicator, empathetic, attentive listener, investigator | Teamwork, completer finisher

I have developed professional communication and teamwork abilities through my psycho-pedagogical training with the Department for Teacher Training, the BrainTwin and REMEDIUM projects, international study mobilities, and my Ph.D. programme. My capacity to effectively cooperate and explain complicated ideas has been further refined through participation in conferences and the Health Innovation Zone initiative.

- **DRIVING LICENCE**

AM, B1, B
