OLYMPIA GALLOU

● PHD STUDENT ● JUNIOR RESEARCHER

✉ olympia.gallou@uzh.ch 📞 +41 762280378 📍 Schwandenacker 41, 8052 Zurich, Switzerland
in linkedin.com/in/olympia-gallou   github.com/olympiaGallos   ⓘorcid.org/0000-0001-8022-8379
Date of birth: 12/02/1997   Nationality: Greek

EDUCATION

PHD IN NEUROSCIENCE
University of Zurich, Faculty of Science   📅 June 2022 – present

- **Research Groups**: NCS Group / Institute of Neuroinformatics (supervised by Giacomo Indiveri), HFO Zurich / University Hospital of Zurich (supervised by Johannes Sarnthein)
- **Doctoral Thesis**: "On-edge Seizure Detection in Electrophysiological Recordings with Neuromorphic Hardware"
- **Doctoral Program**: Neuroscience ZNZ in division "Computational Sciences and Neuroinformatics"

INTEGRATED MASTER OF ENGINEERING
Technical University of Crete, School of Electrical and Computer Engineering   📅 Sep 2015 – Oct 2021

- 310 ECTS, GPA: 7.91/10.0, ECE TUC
- **Master Thesis**: "Delineating the Epileptogenic Zone by Accurately Determining the High Frequency Oscillation (HFO) Area using Classification of the Extracted Features" (10/10)
- **Selected Coursework** (Grades): Telecommunications Systems (10/10), Digital Signal Processing (9.5/10), Advanced Electronics II (9.5/10), Statistical Modeling and Pattern Recognition (9.5/10), Digital Image Processing (9/10), Statistical Signal Processing for Telecommunications (9/10), Autonomous Agents (9/10), Software Development Tools and Systems Programming (8/10).

HIGH SCHOOL DIPLOMA
General High School of Kanithos Chalkida, Greece   📅 Sep 2012 – Jun 2015

- Excellence in all grades, Honors Diploma
- School certificate: "Excellent" (18.9/20.0)

WORK EXPERIENCE

RADICOS TECHNOLOGIES - L&V DESIGN   SOFTWARE ENGINEER INTERN
📍 Lausanne, Switzerland   📅 Feb 2022 – May 2022

- Designed and implemented a user-friendly software Graphical User Interface (GUI) using Python and Qt Designer, which led to a more intuitive and automated testing process, reducing the time-to-test for circuit boards by 25%. The testbench system used in testing circuit boards is part of the Radicos Twin Master project, a powerful fault-tolerant sensor actuator network used in fire detection, shiphold monitoring, greenhouse and livestock housing monitoring.
- Technologies: Python, C++, Eric 7 IDE, Qt designer, VS 2017, Git, JIRA

VITRUVIAN SHIELD SA   R&D SOFTWARE ENGINEER INTERN
📍 Lausanne, Switzerland   📅 Mar 2022 – May 2022

- Focused on the Vitruvian Shield smartwatch as a short-term intern, an e-Health software for remote monitoring, which combines web and mobile applications, and a wearable device that collects biometric data.
- Technologies: Python, PHP, Javascript

TELECOMMUNICATION SYSTEMS RESEARCH INSTITUTE (TSI)   RESEARCH INTERN
📍 Chania, Greece   📅 Jun 2019 – Aug 2019

- Worked under the supervision of Prof. Liavas on transceivers, mathematical models and algorithms for wireless networks, various system modulations in SISO and MISO networks.
- Technologies: MATLAB, USPR, RTL-SDR

TECHNICAL AND OTHER SKILLS

- **Operating Systems**: Windows, Linux, Mac OS X
- **Techniques**: Software Development, Data Modeling, Statistical Analytics, Predictive Analytics, Machine Learning Algorithms, Pattern Recognition, Signal Processing, Neural Networks
- **Programming Languages**: Matlab, Python, C, R, Java, SQL, C++, VHDL, HTML
- **Hardware and Circuits Development Tools**: Xilinx ISE, Arduino IDE, VLSI, Neuromorphic Circuits

LANGUAGES

- Greek (Native)
- English (Level C1, Certificate of Proficiency in English, University of Michigan)
- German (Level B2, Goethe-Zertifikat B2)
- Spanish (Level A2, Beginner)
- French (Level A1, Beginner)

TEACHING ASSISTANCE

- Institute of Mathematics (UZH), Introduction to Statistics (STA120), Grading/120 hours - Spring Semester 2023
- Institute of Neuroinformatics (UZH/ETH), Neuromorphic Intelligence (INI508), Labs/50 hours - Spring Semester 2024

RESEARCH GRANTS

- UZH Candoc Grant 2024 for young academics

CONFERENCES AND SYMPOSIUMS

- International Conference for Technology and Analysis of Seizures 2022 (ICTALS)
- Swiss Society for Neuroscience (SSN) meeting 2023 (poster presentation)
- Early-Career Researchers Symposium ySSN 2023 (poster presentation)
- Zurich Center for Neuroscience Symposium 2023 (poster presentation)
- Epilepsy Research Symposium (EPI, Klinik Lengg) 2023

WORKSHOPS AND SEMINARS

- ZNZ Research Retreat at Roche 2022 (poster presentation)
- Neuroimaging Block Course USZ 2022
- Day of Clinical Research USZ 2023
- BCI & Neurotechnology Spring School 2023

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Swiss Society of Neuroscience (SNN)
- Hellenic Society of Neuroscience (HSfN)
- Institute of Electrical & Electronics Engineers (IEEE)

VOLUNTEERING

- Team leader in Womentors - Empowerment program for young women, 180 hours of training and practice in leadership, delivered seminars for 50 young women (2021-2023)
- Youthpass – ESC, short-term project mobility for environmental awareness in Spain by European Solidarity Corps and Erasmus+ (2021)
- Technical Support, Robotics presentations and AI Workshops in TUC Open Scientific Days, School Festivals and STEM events (2017-2020)