Carnegie Mellon Portugal

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News from the Fence

CMU Portugal Academy opened its doors in Lisbon

The **CMU Portugal Academy** was launched at the event “Partnerships for Tomorrow’s Education: Building Future Jobs for a Digital Portugal” at the Unicorn Factory, Hub Criativo do Beato. Attendees included Portuguese Minister of Education, Science, and Innovation Fernando Alexandre; Santander Group's Miguel Belo de Carvalho; Inês Rocha de Gouveia from the Santander Foundation; FCT Vice-President Francisco Santos; and Instituto Superior Técnico President Rogério Colaço.

Applications are open to three advanced training programs: **AI, Data Science, and Machine Learning**; **Product Management**; and **User Experience and Service Design**. The deadline for applications is **September 9, 2024** and each program has 30 available positions,supported by the Santander Portugal Foundation.







CMU Portugal launched “Patient Innovation Accelerator” with Nova SBE and Nova Medical School and FCT

NOVA Medical School and the Nova School of Business and Economics (Nova SBE) signed an agreement with Fundação para a Ciência e a Tecnologia to launch the **CMU Portugal Patient Innovation Accelerator.** The signing event, held at NOVA Medical School, was attended by FCT President Madalena Alves; National Co-Director of the CMU Portugal Program Inês Lynce; NOVA SBE Dean Pedro Oliveira; and NOVA Medical School Dean Helena Canhão.

This joint initiative marks a significant milestone in Portugal's healthcare innovation landscape, aiming to advance healthcare solutions and foster entrepreneurship in the sector. The launch coincided with the 2nd anniversary of the Nova SBE Haddad Entrepreneurship Institute and featured interventions by Nuno Jardim Nunes, Co-Director of the CMU Portugal Program, and José Fonseca de Moura, CMU Portugal Director at CMU (via Zoom).

Recently, CMU Portugal at **CMU hosted the Pateint Innovation team** including NOVA Medical School Professors Helena Canhão (Dean), João Conde (Vice-Dean for Research), NOVA SBE Pedro Oliveira (Dean), and Leid Zejnilovic (Director of the Data Science Knowledge Center at Nova SBE and CMU Portugal almun). The group visited Carnegie Mellon University in Pittsburgh to explore partnerships with CMU’s Tepper School of Business and Heinz College of Information Systems and Public Policy.





CMU Portugal Welcomes 14 Undergraduate Students from CMU Pittsburgh

On May 10th, the CMU Portugal program hosted a delegation of **14 undergraduate students from Carnegie Mellon University**, representing various disciplines within the field of engineering, accompanied by Treci Bonime, Assistant Dean for Undergraduate Studies, with CMU's College of Engineering.

Following the networking lunch with CMU Portugal Ph.D. students and alumni, the delegation visited the Institute for Systems and Robotics (ISR) of Instituto Superior Técnico, in Lisbon, hosted by Alexandre Bernadino.







Acelera@UC distinguished Manuel Reis Carneiro for innovative idea developed under CMU Portugal Project

Manuel Reis Carneiro was among the **winners of the 2024 edition of Acelera@UC**, an acceleration program promoted by UC Business, the Technology Transfer Office at Universidade de Coimbra (UC).

The CMU Portugal Dual Degree Ph.D. student in Electrical and Computer Engineering (ECE) at UC and Carnegie Mellon University, presented one of the five winning business ideas "E-skins: Wearable bio stickers for long-term electrophysiology" based on results from the Large Scale Collaborative project WoW.

This follows his recent distinction in the 12th edition of ArriscaC, a business idea competition also promoted by Universidade de Coimbra. Manuel Carneiro, along with his Ph.D. supervisor Mahmoud Tavakoli and CMU Portugal researcher at FCTUC, Universidade de Coimbra, secured **2nd place in the Sustainability category**.







CMU Portugal Visiting Scholar Alexandra Mendes won FLAD Atlantic Security Award

Alexandra Mendes, a 2023 CMU Portugal Visiting Faculty & Researcher scholar from Universidade do Porto (FEUP), has been **recognized with the FLAD Atlantic Security Award,** promoted by Fundação Luso-Americana para o Desenvolvimento (FLAD).

The winning project idea emerged after her time at Carnegie Mellon University, visiting Professor Nicolas Christin at the Software and Societal Systems Department (S3D), where she came across a research project that analyzes fluctuations in prices in drug markets by analyzing dark web data.



In the Media: Carol J. Smith, AI Trust Lab Lead at CMU, "I don't believe regulating technology makes sense"

In **an interview with Lusa**, Carol J. Smith, AI Division Trust Lab Lead and a Principal Research Scientist at Carnegie Mellon University, expressed her perspective on regulating technology. While some argue for regulation, Carol emphasized the importance of prioritizing human rights and privacy in the development and deployment of technology.

Carol J. Smith was a keynote speaker, supported by CMU Portugal, at ICSE 2024, the international conference on Software Engineering, that took place in Lisbon.



"AI and the productivity challenge — an unknown frontier", opinion article by Nuno Jardim Nunes

In **an opinion piece published by Expresso**, Nuno Jardim Nunes offered a look into the growing apprehension and unease regarding large-scale language models (LLM) and their ability to potentially escape human control and develop autonomous, intentional behaviors.

"If the predictions are confirmed, we could be on the verge of a transformation comparable to the Industrial Revolution, or, to a lesser extent, the emergence of the PC, the internet and mobile computing", shares the CMU Portugal's National Director and Interactive Technologies Institute's President.

CMU Portugal alumnus André Martins Appointed to EuroHPC Advisory Group on Supercomputing



André Martins, CMU Portugal Dual Degree Ph.D. in Language Technologies alumnus, Professor at Instituto Superior Técnico and researcher in the field of artificial intelligence at Instituto de Telecomunicações, has been **selected as a member of the Research and Innovation Advisory Group** (RIAG) of the EuroHPC Partnership.

Upcoming events

- Current and Future Impact of AI on Work | June 25 | Lisbon
- Science 2024 Meeting | July 3 - 5 | Porto
- LxMLS 2024 | July 11 - 17 | Lisbon

CMU Portugal Publications

Papers

- Brancas, R., Terra-Neves, M., Ventura, M., Manquinho, V., Martins, R. (2024). Towards Reliable SQL Synthesis: Fuzzing-Based Evaluation and Disambiguation. In: Beyer, D., Cavalcanti, A. (eds) Fundamental Approaches to Software Engineering. FASE 2024. Lecture Notes in Computer Science, vol 14573. Springer, Cham.
- Canelas, P., Tabor, T., Ore, J.-P., Fonseca, A., le Goues, C., & Timperley, C. S. (2024). Is it a Bug? Understanding Physical Unit Mismatches in Robot Software.
- Colombo, P., Alves, D., Pombal, J., Guerreiro, N., Martins, P., Alves, J., Farajian, A., Peters, B., Rei, R., Fernandes, P., Alves, D. M., Guerreiro, N. M., Martins, P. H., Alves, J., Agrawal, S., de Souza, J. G., & Martins, A. F. (2024). TOWER: An Open Multilingual Large Language Model for Translation-Related Tasks.
- Ferreira, M. A., Atre, N., Sherry, J., & Sobrinho, J. L. (2024). Impossibility Results for Data-Center Routing with Congestion Control and Unsplittable Flows. Proceedings of the 43rd ACM Symposium on Principles of Distributed Computing, 358–368.
- Gomes, C., Fernandes, J. , Falcao, G., Kar, S., Tayur, S. (2024). Vehicle-to-Vehicle Charging: Model, Complexity, and Heuristics, arXiv:2404.08837v1 [cs.AI].
- Martins, C., Neves, B., Teixeira, A. S., Froes, M., Sarmento, P., Machado, J., Magalhães, C. A., Silva, N. A., Silva, M. J., & Leite, F. (2024). Identifying subgroups in heart failure patients with multimorbidity by clustering and network analysis. BMC Medical Informatics and Decision Making, 24(1), 1–14.

- Mendes, P., Romano, P., & Garlan, D. (2024), Error-Driven Uncertainty Aware Training, arXiv:2405.01205.
- Moreira,G., Hauptmann,A., Marques, M., Costeira,J.P. (2024). Learning Visual-Semantic Subspace Representations for Propositional Reasoning, arXiv:2405.16213v1 [cs.CV].
- Pereira, D., Oliveira, R., Member, S., Benevides da Costa, D., & Kim, H. (2024). Performance Analysis of Slotted-Aloha With Mandatory Access and Retries in a Finite Frame. IEEE NETWORKING LETTERS, 6(2).
- Viegas, C., Maxion, R., Hauptmann, A., & Magalhães, J. (2024). The Seven Faces of Stress: Understanding Facial Activity Patterns during Cognitive Stress.

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