

UT Austin | Portugal INTERNATIONAL COLLABORATORY FOR EMERGING TECHNOLOGIES, CoLAB


■ Welcome Note from Mathematics' Directors

The UT Austin | Portugal program in the area of Mathematics is now on the fourth year, and we are quite proud of our achievements so far. Several education and research initiatives in mathematics in collaboration with UT Austin, such as the yearly workshops in Austin, summer schools and workshops in Portugal, research training groups for undergraduates, the PhD and post-doctoral programs, as well as the exchange faculty program have been extremely successful.

This academic year, three Portuguese faculty have already spend extended periods at UT. Agnieszka Malinowska and Delfim Torres from University of Aveiro were at UT during September. They have started a research project with Cristina Caputo, from UT, and she will be spending this Summer in Portugal to continue this work. Daniel Abreu, from the university of Coimbra, is now working with John Gilbert at the Mathematics Department of UT. Quite soon, February 28th, the applications for post-doctoral positions will close. We believe we will attract several high quality post-docs which can help to create a critical mass in Portugal areas of possible interaction with the University of Texas at Austin. Also under review is the last research call on selected areas of applications of mathematics. We believe that these research calls are critical to establishing for long term research projects with UT.

The workshop Classical and Random Dynamics in Mathematical Physics will be held at UT between March 30th and April 1st. This will bring together several Portuguese researchers with UT Austin faculty. This is now the third yearly workshop at UT. Also this summer in Coimbra, July 15-23, we will organize a Summer School and Workshop on Imaging Sciences and Medical Applications. This event focuses on a selected range of interdisciplinary topics handled from both a mathematical and an engineering applications point of view. In addition to mathematicians and engineers, the target audience includes graduate and PhD students with a research interest in problems related to Mathematics, Medical Imaging, Biomechanics, Biology, and Bioengineering. A number of future events are being planned but, nonetheless, the direction of the program welcomes all interesting suggestions on future activities.

Diogo Gomes
Portugal

Luís Caffarelli
UT-Austin

MARK YOUR CALENDARS:

- **CONFERENCE "ROSA PÚRPURA DO CAIRO AO CONTRÁRIO" (DIGITAL MEDIA)** – February 24th, 6pm – Auditorium II at FCSH/UNL, Lisbon, Portugal – for more information visit www.utaustinportugal.org
- **MATHEMATICS DEADLINE FOR POST DOCTORAL SCHOLARSHIPS APPLICATIONS** – February 28th – For more information please visit http://www.utaustinportugal.org/news/deadline_for_current_round_of_math_post-doc_applications_is_february_28

■ COLAB News Center

UT Austin | Portugal Program (CoLab) and ZON launch Intensive Script Development Lab

ZON INTENSIVE SCRIPT DEVELOPMENT LAB AT UT AUSTIN

Colab together with ZON has created a unique initiative in Portugal. The ZON intensive Script Development Lab at UT Austin will be an advanced formation in film scriptwriting, direction and production for 10 students of a few selected universities that have been associated with this project (University of Aveiro, University of Beira Interior, University Catholic of Porto, University Lusófona, University of Minho, New University of Lisbon and University of Porto).

The goal of this Lab is to educate film students in a multicultural environment, allowing them to have access to specialized and

work oriented teaching methods. The studies will take place in the US and in Portugal, during the summer of 2010 and includes paid trips, room and board. The 10 finalists will be chosen based on a short story synopsis that they will submit.

For two months, the students will develop their script at UT Austin, supervised by renowned professors, such as Richard Lewis and Stuart Kelban.

Filming and post-production will then be made in Portugal supervised by their respective universities.

■ COLAB participates in FUTURÁLIA 2010, at FIL, March 10th-13th

futuralia



CoLab will be represented at the fair Futuralia 2010, an event that will take at FIL, in Lisbon, between March 10th and 13th.

Futuralia 2010, a fair for youth, qualification and employment, is the biggest education related event being organized in Portugal and it presents an unique opportunity for students to directly contact with most of the country's education institutions and programs, such as the UT Austin | Portugal Program.

If you wish to know more about the Program and its opportunities, please visit us at the Graduate Training (Formação Avançada) section of the fair. For more information on Futuralia, please visit www.futuralia.fil.pt.

■ HEITOR ALVELOS (CoLab Post-Doc in Digital Media and FUTURE PLACES curator) on the International Advisory Committee at Prix Ars Electronica



Heitor Alvelos has been officially invited to be part of the International Advisory Committee of the Digital Communities category of Prix Ars Electronica.

Since 1987, the Prix Ars Electronica has served as an interdisciplinary platform for everyone who uses the computer as a universal medium for implementing and designing their creative projects at the interface of art, technology and society.

The competition is organized by the Ars Electronica Linz GmbH and ORF's Upper Austria Regional Studio in collaboration with the OK Center for Contemporary Art and the Brucknerhaus Linz, and the prizes are awarded during the Ars Electronica Festival each year. The Prix Ars Electronica is one of the most important awards for creativity and pioneering spirit in the field of digital media.

■ SHARON STROVER (Digital Media Director) advises the USDA on expanding broadband to rural America



(...) In 2009, as part of the American Recovery and Reinvestment Act, the government set aside \$7.2 billion to extend broadband Internet access in un-served and under-served areas in hopes of transforming lives through broadband Internet access. Two government entities are distributing the funds and managing this project: the Department of Commerce and the U.S. Department of Agriculture (USDA).

Such a significant public investment raises questions about the impact of broadband on rural communities: Do federally funded broadband networks increase broadband adoption? What impact do broadband education campaigns have on broadband adoption? If you build it will they come?

The USDA asked Stover and researchers at the University of Kentucky and Michigan State University to examine four rural communities—Huron County, Mich., Pike County, Ky. and Zapata and Zavala Counties in South Texas—and evaluate whether broadband access “transformed” citizens' lives in any way. The team also examined how broadband services were marketed in each community and whether local leaders played a role in evangelizing the benefits of broadband Internet service.

Strover and her colleagues gathered data on Internet use in those four communities beginning in 2005. Shortly afterward USDA-funded telecommunications providers introduced wireless broadband services in each region. Strover and the team re-gathered data a few years later to see what changes occurred as a result of broadband being introduced in these communities.

In both studies, researchers measured how connected residents

were to the Internet and how they used it. They examined residents' economic and educational aspirations and their level of satisfaction with their community. "It is rare that you have the opportunity to do a longitudinal comparison of communities before and after a broadband intervention," Strover said.(...)

Read the full article on Professor Strover's new project at http://www.utexas.edu/features/2010/01/25/rural_broadband/.

■ HASSAN NAJAFI (PhD student in Mathematics) starts studies at UT Austin



Hassan Najafi, a PhD student at UT Austin | Portugal Program in Mathematics since 2008, has recently been accepted and began classes at the University of Texas at Austin. After starting his research in Portugal, at Instituto Superior Técnico (IST), Hassan will now spend close to a year in Texas, under the supervision of Prof. Dan Knopf.

The student's Mathematical Interests are: Differential Geometry, Symplectic & Poisson Geometry and their applications especially on Hamiltonian Systems, Lie Groupoid and Lie Algebroids.

■ DEREK LACKAFF teaches Communication Theory in Porto



Dr. Derek Lackaff, an Austin-based postdoctoral fellow with the CoLab, will be teaching a semester-long graduate communication theory course in Porto this spring. The course will provide an introduction to the theoretical foundations of the communication field, and help prepare doctoral students to participate in the international community of communication scholarship. Lackaff will be on-site in Porto to meet

the students and begin the class in March. The class will then be conducted via videoconference and other online platforms until the conclusion of the semester, when Lackaff will return to Porto.

■ ERC Annual Meeting and Public Presentation took place in Lisbon, on January 20th and 21st



ERC Members meet with CoLab Directors and FCT representative.

The UT Austin | Portugal Program had their annual ERC review this January 20th and 21th, in Lisbon. On January 20th, the members of the ERC, led by David Walker, met with the Program's Directors for the areas' annual results presentation.



Jose Mendonca, David Gibson, Antonio Camara and Sharon Strover present 2010's CoLab strategy at CCB



ERC Member Bob Hodgson meets with CoLab students.

On January 21st, they met with the students (PhDs), the principal investigators of the R&D projects and faculty attached to CoLab.

The members also met with the President of the FCT, Joao Sentieiro and the Secretary of State for Science, Technology and Higher Education, Manuel Heitor.

Also on the 21st, there was a public event at Room Amadeo Souza Cardoso in Centro Cultural de Belém, where the Program Directors for Digital Media and UTEN presented the strategy and goals for 2010 and David Walker represented the ERC board and talked about their findings and recommendations for Year 4.

COLAB launches new website



The UT Austin | Portugal Program website has a new look:
<http://utaustinportugal.org>

We hope that it will be easier to use and give you even more timely news about CoLab's activities. We plan more improvements in the future. Please send your comments and suggestions to: priddle@ic2.utexas.edu.

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FCSH launches lectures cycle with Antonio Camara on February 24th in Auditorium II

The PhD in Digital Media faculty in Lisbon has organized a series of lectures on Digital Media for 2010. The lectures will happen at FCSH/UNL on a monthly basis and will start on February 24th with Antonio Camara.

The goal of this cycle is to deepen the study of the degree's themes with the help of experts on the different subjects. The lectures are, however, open to the general public, in particular to the PhD and Master students in Communication Sciences. The university will be bringing in national and international experts, having Antonio Camara, UT Austin Portugal Program's Director and YDreams CEO, as the inaugural speaker.

Antonio Camara will speak on Augmented Reality "Rosa Purpura do Cairo ao Contrario", on the Auditorium II of FCSH/UNL (Av. De Berna 26) at 6pm. The next lecturers will be, on April 22nd, Natalie Fenton (Goldsmiths, University Of London) who will develop the theme "New media, journalism and democracy" and on May 14th Daniel Rodowick (Harvard University) will develop the subject "Digital Cinema".

Everyone is invited to attend.

THE UTEN CORNER S&T COMMERCIALISATION



2010 1st UTEN Training Week Capital Sourcing for Early-Stage Technology Start-ups
Regional Training Workshops hosted by: ISCTE-IUL, Lisbon University Institute - 25-26 January and The University of Porto Faculty of Engineering (FEUP) - 28-29 January

From January 25-29, UTEN presented two 2-day workshops on Capital Formation and Capital Sourcing for university technology transfer officers (TTO's) and early-stage technology start-ups coming out of Portuguese universities. The workshop featured two speakers from Texas: Ms. Laura Kilcrease, Founder and Managing Director of Triton Ventures and Mr. Jamie Rhodes, Founder and Chairman of the Board of the Central Texas Angel Network (C-TAN) together with 17 colleagues representing key leading capital sources in Portugal (venture funds and business angels).

This is the first UTEN Training Workshop in 2010 brought together US capital sources (VC and Angel), existing and potential capital sources in Portugal (including venture capital firms, business angels and their networks, as well as government programs providing capital to early-stage technology start-ups), along with university technology transfer officers (TTO's), incubator managers and a select group of researchers/early-stage entrepreneurs. The workshops were designed to train Portuguese TTOs and to foster dialogue and constructive interaction between these stakeholder groups to align interests to successfully

fund and launch Portuguese emerging international technology companies.



Participants were provided the opportunity to interact and learn from one another on a host of subjects ranging from deal terms and documents to norms and trends in the industry, common "do's and don'ts" when pitching capital, and how to manage investor relationships for success. This introductory UTEN workshop was intended to serve as a starting point to be followed and reinforced throughout 2010.

UTEN would like to thank IUL-ISCTE and FEUP for their hospitality and leadership in hosting these events. Special thanks also goes to the Portuguese capital sources who attended as well as the TTOs and entrepreneurs who pitched their ideas. It was an extraordinary training experience and UTEN appreciates all participants for contributing to make these workshops a success. Anyone interested in presenting or participating in future UTEN workshops, please contact Maria Jose Francisco (maria.francisco@utenportugal.org).

■ UTEN Training Workshop Agenda on Capital Sourcing

Day 1:

Investment Environment/Philosophy: Setting the Stage for Capital Formation; Pitching the Right Deals to the Right Investors; Early-Stage Funds, Business Angels, and Venture Capital.

Comparison and Contrast of Capital Sourcing in US and PT: Unique aspects of funding early-stage university-based technologies; Common Challenges and Solutions; and Potential areas for collaboration Brief Case Studies on Early-Stage Investments UPs and DOWNs:

from first pitch, to first round, to exit; and Effective communication and getting the deal funded.

Day 2:

Investment Deals: Intro to Key Concepts: Subscription Agreements; Term sheets, terminology; and Major components of the successful deal Live Pitch Exercises: Pitches from Portuguese "Living Cases"- 15 min presentations each- 15 min Q&A each; Investor Feedback and Entrepreneur Mentoring; Case Study (Business Plan and Film) from MootCorp, UT-Austin; and Scoring of pitches and Key Take-Aways.

■ UTEN visit to University of Coimbra, 27 Jan

On January 27th, UTEN was hosted for a one-day visit to the University of Coimbra to discuss current efforts by the region to develop a viable and robust technology commercialization ecosystem as well as ways for UTEN to collaborate with and support these efforts. UTEN visitors included Ms. Laura Kilcrease of Triton Ventures, Mr. Jamie Rhodes of Central Texas Angel Network, Eli D. Mercer, UTEN Austin Manager for Training and Internships, and Ana Paula de Amorim, UTEN Liaison. A special thanks to our hosts at Coimbra University and especially to Jorge Figuera for arranging the visit. In February 2010, Mr. Figuera will be conducting a 2-week Internship at UTEN Austin, IC_ Institute, The University of Texas at Austin.

■ FCT Supports Three UTEN Interns in Texas

Carla Mascarenhas, University de Trás-os-Montes e Alto Douro, began her Internship at **South Texas Technology Management (STTM)** [www.utsystem.edu/sttm/index.shtml] on January 11, 2010. During her two-month internship she will mainly work to increase her knowledge in international TT licensing and negotiation. It was decided together with the STTM that her internship should focus on all TT procedures at STTM other than patenting because patenting is an area in which Carla has over 6 years experience. Carla's coordinator is John Fritz (see photo), STTM Technology Licensing Associate. Carla is initially working on the evaluation and validation of Invention Disclosure Forms as well as research on the state of the art of patent applications and technology marketing. During her first weeks as an Intern at STTM, Carla has also worked on sending Non Confidential Descriptions to U.S.-based enterprises and has attended meetings with investigators and conference calls between researchers and companies.

Beyond her daily work at STTM, Carla also attended the 2nd Forum Boot Camp, held at The Center for Innovation and Technology Entrepreneurship (CITE), College of Business, University of Texas at San Antonio's (UTSA). Boot Camp speakers included business, lawyer, government, and academic representatives. Carla is also conducting RapidScreen and MarketLook assessments, with the assistance of Cliff Zintgraff (UTEN Manager Technology Development, UTEN Austin) on technologies she brought with her from Alto Douro, with three market-based interviews scheduled, and she has started to consider Texas-based companies that could be interested.

Dr. Alexandra Marques, University of Algarve, recently joined Carla as the 2nd UTEN Intern at STTM. Alexandra is being mentored by Dr. Christine Burke at STTM (Photo). Alexandra is the Science and Technology Manager at the University of Algarve's TTO – Algarve Regional Centre for Innovation (CRIA). The main goals for her internship are learning about and practicing technology evaluation and international commercialization. Dr. Burke will guide Alexandra through the processes of licensing and defining the strategies of technology IP, as well as through the contacts with the inventors and the companies that may be interested in commercializing the technologies. Alexandra will also have the opportunity to attend some important conferences on technology transfer which will take place during the period of her internship at STTM. Dr. Alexandra Marques is also working with Cliff Zintgraff, who is mentoring her through RapidScreen and Market Look assessments of University of Algarve technologies including establishing contacts with US companies to assess the technologies international market potential.

On February 1, Filipe Castro, University of Porto began his 2 month Internship at the **Office of Technology Commercialization, The University of Texas at Austin** [www.otc.utexas.edu]. Filipe's internship will focus on learning more of UT's OTC methodologies and procedures that were introduced to him by Rick Friedman, Associate Director and Max Green, Licensing Specialist during the Technology Licensing Workshop they gave at UPIN, December 17-18, 2009.



Carla Mascarenhas, John Fritz, Dr. Christine Burke, and Dr. Alexandra Marques at STTM's TTO in San Antonio, Texas

ONGOING OPPORTUNITIES

Digital Media:

INTERNSHIP OPPORTUNITIES IN AUSTIN COMPANIES (DIGITAL MEDIA)

We have recently updated our internship program and encourage graduate students and early-career professionals interested in gaining hands-on experience working at Austin-based companies to apply. The program includes airfare to Austin, housing for up to 3 months, health insurance, and visa fees. We also list interns as "visiting researchers" at the University of Texas, which grants them access to the university library system, gyms, and other campus amenities as well as the city bus system. Those interested in applying can find more information about the program, including application procedures at <http://colab.ic2.utexas.edu/dm/internships/>

Applications may be submitted at any time, but the minimum time for processing and placement is 4 months, so those interested must plan ahead.

Internships will last a minimum of 6 weeks, and interns will be placed at digital media companies in Austin. During their time in Austin, interns will not only have the opportunity to learn about the digital media industry through their internship assignment, but will also be able to participate in professionalization and leadership training with University of Texas students enrolled in the Digital Media Leadership Program.

Mathematics:

CALL FOR APPLICATIONS: POST-DOCTORAL SCHOLARSHIPS (MATHEMATICS) – DEADLINE FEBRUARY 28TH!

The UT Austin- Portugal Program (<http://www.utaustinportugal.org/>) is a long-term collaboration initiative between the Portuguese Government, through the Ministry of Science, Technology and Higher Education, and the University of Texas at Austin (UTA) focusing on basic research and education. One of the core areas in this partnership is Mathematics: <http://math.utaustinportugal.org>.

Under this program, the Portuguese Science Foundation (FCT) has opened a call for Post-Doctoral fellowships, taking place in Portugal (Faculdade de Ciências e Tecnologia - Universidade de Coimbra, Faculdade de Ciências - Universidade de Lisboa, Instituto Superior Técnico, Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa) and at UT Austin: http://alfa.fct.mctes.pt/apoios/bolsas/concursos/utaustin_posdoutoramento.

Though the call is permanently open, the next cut-off date for evaluation of applications in Mathematics will be February 28, 2010.

Any questions should be addressed by email to the program Director Diogo Gomes (dgomes@math.ist.utl.pt).

Useful links

www.utaustinportugal.org

www.fct.mctes.pt

www.utexas.edu

www.ic2.org

www.ati.utexas.edu

www.austin-chamber.org

<http://colab.ic2.utexas.edu/dm/>

www.utenportugal.org

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