

UT Austin | Portugal INTERNATIONAL COLLABORATORY FOR EMERGING TECHNOLOGIES, CoLab


■ UT Austin Professor, Luis Caffarelli, wins prestigious Wolf Prize

Luis Caffarelli, a mathematician, Professor at the **Institute for Computational Engineering and Sciences (ICES)** at the University of Texas at Austin and Director of CoLab Mathematics Program, has been named a winner of Israel's prestigious **Wolf Prize**, in the mathematics category.

This prize, which consists of a certificate and a monetary award of \$100,000, "is further evidence of Luis' huge impact", according to Alan Reid (Chair of the Department of Mathematics). "I feel deeply honored", states Caffarelli, who joins the UT Austin professors John Tate (Mathematics, 2002) and Allen Bard (Chemistry, 2008) as a Wolf Prize winner.



UT Austin Professor, Luis Caffarelli

Caffarelli's research interests include nonlinear analysis, partial differential equations and their applications, calculus of variations and optimization. The ICES Professor is also widely recognized as the world's leading specialist in free-boundary problems for nonlinear partial differential equations.

Each year this prize is awarded to specialists in the fields of agriculture, chemistry, mathematics, physics and the arts. Caffarelli will share the 2012 mathematics prize with Michael Aschbacher, a professor at the California Institute of Technology.

Link for Institute for Computational Engineering and Sciences:
<http://www.ices.utexas.edu/>

■ Porto Students Conduct Exploratory Visits

UT Austin welcomed several visitors at the end of the Fall 2011 semester, including Digital Media doctoral students Pedro Bastos, Rui Dias, Filipe Lopes, and George Sioros of U.Porto. The students conducted exploratory visits, exploring opportunities for further study at UT.

Bastos, whose doctoral project seeks to define a new standard for facial rigging, met UT Austin faculty members and also Professor Frederic Parke of Texas A&M Visualization Laboratory in College Station. Parke is a leading pioneer in facial

animation. Bastos felt he benefited greatly from the visit, commenting, "The time I spent in Austin and in College Station was everything I expected and more. I met relevant people for my area of expertise with whom I am now collaborating. And I had my eyes opened to the diversified culture in Texas. It was a remarkable experience."

Digital media and music students George Sioros, Filipe Lopes, and Rui Dias visited Austin to meet with UT faculty member Bruce Pennycook and Fall 2011 semester visiting

scholar Carlos Guedes, who are investigators on the Kinetic Controller Driven Music Systems research project, and Yacov Sharir of the Theatre and Dance Department as well as other faculty members of the School of Information and

the Department of Radio-TV-Film. During their visit, they were joined by Dr. Andre Holzapfel, a Music Information Retrieval specialist currently doing research at the INESC Porto.



Andre Holzapfel, George Siorios, Carlos Guedes, Bruce Pennycook, Rui Dias, and Filipe Lopes

Pedro Bastos

■ Summer Institute 2012 is on its way

The UT-Austin | Portugal project is gearing up for Summer Institute courses. Several UT-Austin instructors are proposing courses to the summer months, and in February students will have a chance to indicate their interest in various topics. The proposals include subjects such as: scriptwriting; making documentaries; digital cinema; entrepreneurial journalism; participatory culture; human-computer interaction; trans-media franchises; new media ethnography; animation; and researching digital media users. The basic model for the courses is a three week duration, with intensive meetings

of three-four hours each day of the week, plus work outside the class. These courses do carry academic credit.

We hope to offer two or three courses in Lisbon and in Porto, and will choose the final courses based on student interest. If you are interested in taking some of these, please contact one of the following persons: at UNL, Professors João Mário Grilo or Nuno Correia; at University of Porto, Professors Carlos Guedes or Heitor Alvelos.

■ Dr. Sharon Strover joins the Connected Viewing Initiative (CVI) research team

Dr. Sharon Strover has accepted an invitation to join the Connected Viewing Initiative (CVI) research team established by the University of California-Santa Barbara's Carsey-Wolf Center. The "Immersive TV Project" will extend and broaden similar research conducted for the ImTV Project, a joint collaboration between teams at the University of Texas at Austin and universities in Portugal (Principal Investigator: Dr. João Magalhães at the New University of Lisbon).

The Immersive TV Project seeks a greater understanding of how people use new devices and content providers for entertainment purposes, and some teams are developing interfaces and software to enable people to move easily across content that currently comes from very different sources (broadcast, cable, the web, etc.). The Connected Viewing Initiative and is working towards development of a language to describe media "embeddedness" as part of

connectivity between humans, devices and networks. It includes projects examining institutional and industrial dynamics around the new viewing opportunities, as well as projects investigating how users engage technologies and content. At least two of the component research projects in the Connected Viewing Initiative are examining media practices in Europe. The overall project will explore the process by which new screen devices are naturalized in social life and media engagement. The UT Austin study will incorporate additional population samples, focusing particularly on community college students, in addition to survey data gathered from undergraduate students in both the United States and Portugal.

For more information on the Connected Viewing Initiative and its collaborators, visit <http://www.carseywolf.ucsb.edu/mip/connected-viewing-initiative-research-team>

■ Digital Media doctoral students to start new semester in Austin

Three new UT Austin|Portugal Digital Media doctoral students are enrolling at the University of Texas at Austin this semester. They include Ana Figueiras and Cláudia Silva of UNL and Frederico Gustavo Magalhães of U.Porto. All three will take a full load of courses at UT Austin this spring as non-degree-seeking graduate students, exploring the Austin community and immersing themselves in the UT academic culture.

Figueiras, who specializes the use of digital media in storytelling, has plans that include participating in Professor Sharon Strover's course Interactivity, a creative and innovative seminar focused on collaborative projects, with a practical focus on research and methods. Figueiras looks forward to her semester in Austin, stating, "I hope this semester in Austin helps to take my research to another level. This is a great opportunity to share ideas and to get access to cutting edge research."

Silva will join Figueiras in Strover's Interactivity course, and will also study with her co-advisor, Professor Rosental Alves of the Knight Center for Journalism in the Americas. In addition to pursuing a course of independent study with Alves, Silva also will enroll in his course on Entrepreneurial Journalism, which looks at trends in digital media and journalism, focusing on emerging for-profit and nonprofit organizations. "I believe that attendance of these two seminars will motivate me to pursue new ideas and invent something really new," observes Silva, who also notes that she looks forward to meeting the international community of students and researchers at UT.

Magalhães will continue his study of digital business models, digital marketing, and online behavior, working with co-advisor Professor Sirkka Jarvenpaa of UT Austin's McCombs School of Business. He especially anticipates the benefits of constructive evaluation. "Coming to UT Austin for me personally is somewhat like having my work peer-reviewed. Having my research subjected to world class experts of my field of interest will add undeniable value to my objectives," he notes. His plans include doing an independent course of study with Jarvenpaa, in addition to enrolling in a traditional graduate seminar with her.

The students are welcomed into the growing community of Portuguese doctoral student visitors in Austin, such as Isabel Paiva of UNL and Carlos Figueiredo of U.Porto, who both enrolled as non-degree-seeking students in the fall 2011 semester and are continuing their studies at UT Austin this spring. They also join João Beira of U.Porto, who is enrolled in his second year as a dual-degree doctoral student at UT Austin, and a number of visiting researchers.



Ana Figueiras



Frederico Gustavo Magalhães



Cláudia Silva

■ Diana Castilho Completes Internship at Austin Marketing Company

Austin bids farewell to Digital Media Leadership Program participant Diana Castilho, who for the past three months has worked at Austin company Mercury Mambo. The company focuses on experiential marketing, sales promotion, and branding within a Hispanic market.

Castilho, a corporate communication assistant at ZON Multimédia in Lisbon, came to her internship with extensive experience in media relations, social media, and communication strategies.

She has been the primary coordinator of the nationwide Prémio ZON Criatividade em Multimédia competition in Portugal. These experiences prepared her well for her stint at Mercury Mambo, where her responsibilities included market research, online content curation, and planning an integrated social media strategy that included sites such



as Facebook, YouTube, LinkedIn, and Twitter. While a representative of Mercury Mambo noted that Castilho made a valuable contribution to the company, the internship program participant also benefited from the program. Castilho was able to develop her digital media skills and work collaboratively in a new format based on cloud computing. In addition, the opportunity allowed her to exercise her skills in a new environment. She noted, "Working with different cultures taught me

to think out-of-the box and to manage difference, a strong quality for every PR professional...The world has become the playing field: Global thinking, mobility, language, knowledge and ability to work in multicultural teams will be a must for the future leaders."

■ UTEN CORNER

International Internships

André Fernandes

- Industry liaison at UPIN, University of Porto
- Hosted by the Stevens Institute of Innovation at the University of Southern California (Rick Friedman)
- Internship period: July 1 - September 30, 2011

Los Angeles is not only about Hollywood fiction movies. They make innovation real. Flowing from their three main Universities, specifically, University of Southern California (USC). In 2010, USC saw 52 patents issued and 8 start-up companies using USC based technologies. In average, they close 25 licensing agreements in a yearly basis. Everything starts in R&D efforts. USC's size is comparable in terms of faculty, students and infrastructure, with the dimension of the biggest Portuguese University, University of Porto. But last year USC received 16 times more funding for R&D. The biggest percentage of R&D funding comes from public sources. The innovation value chain is fueled by researchers who, seniors included, engage in technology transfer and entrepreneurship programs. R&D results are protected and marketed by USC Stevens Institute of innovation, the organization which hosted my UTEN internship. It was easy to verify that USC Stevens is strongly investing in technology transfer human and material resources. They constitute a group of different teams dedicated to entrepreneurship, technology licensing, patents and compliance, finance and operations, institutional marketing and communications. There are grey areas of tasks but the motto is specialization. I was assigned to the technology licensing team. Besides performing the known duties of technology marketing, I had the opportunity of participating in technology license pricing as well as in deal negotiations with companies. Hopefully, the next level for Portuguese knowledge transfer offices.



André Fernandes

Luís Rodrigues

- Project Manager for Entrepreneurship at CRIA, University of Algarve
- Hosted by IC2 Institute and the Austin Technology Incubator at the University of Texas at Austin (Aruni Gunasegaram; Heath Naquin; David Gibson)
- Internship period: April 13 - 29; July 1 - September 28, 2011

2011 went by really fast. October was intense, helping to prepare UTEN Training Week #3 From the Lab to the Market – Deep Analysis of Real Cases (Faro, 24-28 October) that we most gladly hosted in the University of Algarve. TW #3 was organized and led by Dr. Gregory Pogue from the IC2 Institute of The University of Texas at Austin.

I've had the chance to share with participants and colleagues from other TTO's direct outcomes from my internship experience and detail my efforts to establish international business relations and co-development arrangements for startups in both the US (OpenAlgae) and Portugal (Algafuel – A4F). In the occasion I've addressed and focused on the Role of the TTO in International Commercialization Strategies. The main argument was that TTO's unique position allows them to see the broader commercialization picture and that through their networks they can play an important role in the internationalization of technologies.

Meanwhile and till the present I've maintained contact on a regular basis with João Navalho (A4F, Chief Technology Officer) and Hoyt Thomas (CEO and President of Openalgae) and collaboration between these 2 companies - based in Algarve and Texas - will be intensified in the beginning of February.

The TW addressed critical issues experienced in driving technologies from the lab to the market. It was most valuable for our team (CRIA) and to reinforce ties with other TTO's in Portugal. As a result CRIA is currently reviewing internal procedures focusing much more technology commercialization (scouting new inventions from scientific innovators and enhancing Faculty-TTO's relationships).

In December I've attended, with my colleagues Sofia Vairinho and Hugo Pinto, the UTEN Annual Conference in Oporto. Also in December progress was made in what regards to collaboration in Marine Sciences with Texas A&M Corpus Christi.

Following my visit with Dr. David Gibson in September 2011 to Texas Gulf Region to meet with Dr. Frank Pezold (Dean College of Science and Technology) and Dr. Lea-Der Chen (Associate Dean). Hopefully, very soon, University of Algarve and Texas A&M, will sign a Memorandum of Agreement recognizing mutual benefits and continued interest in cooperation and collaboration in areas such as technology transfer, entrepreneurship and faculty, staff or students exchange.

Despite all the expected difficulties I'm confident that in 2012 opportunities will emerge. Our work and efforts will continue in the University to help leverage development of a richer entrepreneurial ecosystem in Algarve. I'm positive that the UTEN program will continue to propel Portugal toward an economy based on knowledge and innovation.



Hoyt Thomas, CEO OpenAlgae; Luís Rodrigues, University of Algarve; Dr. David Gibson, IC2 Institute University of Texas at Austin

UTEN TW#3 Faro, University of Algarve, 24-28 October 2011

Miguel Carvalho

- Founder of WeAdapt, Professor of Textile Engineering, University of Minho
- Hosted by IC2 Institute at The University of Texas at Austin (Heath Naquin) and the Massachusetts Institute of Technology (Jose Estabil)
- Internship period: May 3 - 17; June 1 - Nov 30, 2011

I am truly grateful to UTEN Portugal Program for the opportunity of living in US for six months with full access and support to people related to the technologies I brought, investors, researchers and enterprises. The main objective of my internship was the promotion of internationalization of national technologies in the US market. It was possible to obtain important feed-back on the technologies and respective prototypes of pressure ulcers prevention and functional clothing for people with special needs from end-users, medical teams (caregivers, nurses, doctors, physiotherapists, occupational therapists), enterprises, institutions, consultants and investors. With a key participation in an important Conference at MIT - IdeaStream,

where a new partner from MIT and Harvard HST-Health Science and Technology and surgeon at Brigham and Women's Hospital (Boston), Elazer Edelman, was identified to start new research projects and invest in the internationalization of the start-up from University of Minho – Weadapt. During my stay I was invited to be a Visiting Professor at MIT, which helped me a lot in accessing the entire MIT network.

Several workshops between Texas and Massachusetts and a participation in an Exhibition (Products & Technology that Change People's Live - Boston), created different types of opportunities to establish long term partnerships to commercialize ready to market technologies and products, continue developing existing technologies, on the prototype phase, and identify new developments.

An important R&D project was also prepared with the Harvard Medical School and submitted during my presence in US, which will involve a strong collaboration between Portugal and US institutions and enterprises. Others, involving University of Texas, MIT and several Hospitals in Texas and Massachusetts, are under preparation and will be submitted soon.

During my internship I had also the opportunity to participate in a one week Workshop in Entrepreneurship at MIT Portugal (Cambridge) and in the Start Smart - an 8 week hands-on workshop for startups at MIT Enterprise Forum Cambridge, run by first-class experts learning how to better form and grow an early stage venture. If I had to do all these contacts by myself alone, it would take years to reach all the people I met already. The value of networking in US is huge and only by being there you know what that word means.



Miguel Carvalho

■ Events

- **Mathematics Summer School and Workshop 2012**

July 2-13, 2012, UNL, Lisbon

This year's topic will be Stochastic Control and Mathematical Finance. Organizers: Gordan Žitkovic, Dept. of Mathematics, the University of Texas at Austin; Diogo Gomes, Director, CoLab Mathematics, IST, Lisbon.

Details are subject to change. Watch <http://utaustinportugal.org/news/> and math.utaustinportugal.org for updates.

- **TEI 2012**

19th to 22nd February 2012, Kingston, Ontario, Canada.

TEI 2012 is the sixth international conference dedicated to presenting cutting edge research in tangible, embedded, and embodied interaction. The work presented at TEI addresses design challenges, theories, experiences, systems, and new developments, with specific emphasis on all the physical aspects of human interaction with computing technology. The intimate size of this single-track conference provides a unique forum for exchanging ideas and presenting innovative work through talks, interactive exhibits, demos, hands-on studios, posters, art installations and performances. The theme of this year's conference is "fold unfold".

More information at: <http://tei-conf.org/12/Main/Home>

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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