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Current Situation

In October 2001, I started a PhD in Astrophysics (in Stellar Formation) in the Dublin Institute for Advanced Studies (DIAS), under the supervision of Prof. Tom Ray. I hold a scholarship from DIAS and I am in the final writing stages of my thesis, which I will be handing in at the end of October 2005, to obtain the title of Dr. in Astrophysics from Trinity College Dublin.

My research consists of the study of disks around pre-main sequence low-mass stars, especially weak-line T Tauri Stars. The research involves: photometric data reduction, analysis and interpretation; and modelling of the results.

International Conferences and Summer Schools

- § From Disks to Planets: New Observations, Models and Theories: Contributed Poster "WTTS from ISO to SPITZER". Pasadena, California, USA. 7-10 March 2005.
- § Cores, Disks, Jets & Outflows in Low & High Mass Star Forming Environments: Observations, Theory and Simulations: Contributed poster "Observation and Modelling of Weak-line T Tauri Stars' Disks". Banff, Alberta, Canada. July 12-16, 2004.
- § JENAM: Joint European and National Astronomical Meeting: Contributed talk "Do Weak-line T Tauri Stars have Circumstellar Material?". Budapest, Hungary. August 25 - 30, 2003.
- § NAM: National Astronomy Meeting & UK Solar Physics Meeting: Contributed poster "Discs around weak-line T Tauri stars". Dublin Castle, Dublin, Ireland April 7-11, 2003
- § Third Neon School in Astrophysical Observations: EuroSummerSchool sponsored by the European Community. Asiago Observatory, Italy. September 9-21, 2002.
- § Accretion Discs, Jets And High Energy Phenomena In Astrophysics (Disques D'accretion, Jets Et Phenomenes De Haute Energie En Astrophysique): Nato Advanced Study Institute – EuroSummerSchool. École de Physique, Les Houches, France. July 29 - August 23, 2002.
- § Exploiting the ISO Data Archive: Infrared Astronomy in the Internet Age: Conference held in Sigüenza, Guadalajara, Spain. June 24-27, 2002.
- § Historical Development of Cosmology: 30-hour International Summer School organised by the International University Menéndez Pelayo and the University of València in València. September 2000.
- § International Conference - Hands on Experiments in Physics Education: Contributed poster "Introductory Course On Experimental Science" at the Duisburg, Germany 1998. In collaboration with Soler-Selva, V. and Gras-Martí, A.
- § Introductory Astrophysics and Weather and Chaos: 20-hour courses at the Cocentaina Summer School organised by the University of Alacant. July 1997.

Publications

1. *Weak-line T Tauri Stars: circumstellar disks and companions. I: Spectral energy distributions and infrared excesses*, Gras-Velázquez, À. & Ray, T.P., 2005, *A&A*, (accepted)
2. *Do Weak-Line T Tauri Stars have Circumstellar Material?* Gras-Velázquez, À. & Ray, T. P., 2004, *Baltic Astronomy*, Vol.13. Pages: 543 - 547
3. *Manual for Finding the Best Model*, Gras-Velázquez, À. 2004, Program for finding the model that fits the UBV/ISO/IRAS data best among the models resulting from the mc codes developed by K. Wood and C. H. Walker. Manual available from <http://www.dias.ie/~agv/pages/Quefaig.html>
4. *Introductory Course on Experimental Science*, Gras-Velázquez, À. et al., 1999. Published in the proceedings of the ICPE-GIREP International Conference "Hands on-Experiments in Physics Education". Editors: G. Born, H. Harreis, H. Litschke, N. Treitz (Duisburg). Pages: 531-533.
5. *De les imatges i de les sensacions a la mesura (Course in Computer-Assisted Laboratory)*, Soler-Selva, V. et al., 1999. Published in *Quaderns del Palau I*. University of Alacant. Pages: 148 – 166.

Computer Proficiency

MS-DOS, Windows, Word, PowerPoint and Excel, UNIX, vi text editor, emacs, PIA (ISOPHOT Interactive Analysis package), IRAF, html.

Previous Studies

University: 5 year-degree in Physics at the University of València, Spain (October 1996-July 2001). Lectures in Catalan and Spanish. Final grade: 70% (2.08)

The first 3 years of my career I took undergraduate courses in Physics (theoretical and experimental subjects) and Mathematics, in about the same amount. The last 2 years of my degree I took advanced courses in Astrophysics, Cosmology, Stellar Evolution, General Relativity, Quantum Field Theory, Electronics, Elementary Particles, Nuclear Physics.

University entry exam: (Spanish Selectivity) in 1996. Grade: 8.09 (out of 9).

Languages

Read/Written/Oral	<i>Catalan</i>	<i>Spanish</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Irish</i>	<i>Russian</i>
Fluent	<i>Native</i>		X				
Fair	<i>(mother)</i>			X			
Basic	<i>languages</i>				X	X	X

Catalan and Spanish: Native Languages, used at *all* levels of education

English: 7 years along elementary school and high school. Full course at the Spanish Official Language School (5 years). 2 complete academic years in UK and one in USA. 4 complete years in Ireland.

French: 2 years in high school, 1 year at the Spanish Official Language School, 1 year at "Rawlins Community College", Quorn, England. 1 month in Limoges, France. 4 months (32 hours) of Conversational French (Niveaux Argent) and 4 months (48 hours) of Cinéma Française at L'Alliance Française, Dublin, Ireland. 4-month course of Intermediate French level 3 (32 hours) at L'Alliance Française, Dublin, Ireland. Certificat d'Etudes de Français Pratique 1 (CEFP 1)

German: 6 months at a private school, Alacant, Land of València. 3 months at "Rawlins Community College", Quorn, England.

Irish: 36 hours (Complete Beginners course) at Conradh na Gaeilge, Dublin 2. 20 hours in Gleann Cholm Cille, Co. Dún na nGall. 18 hours of Elementary Level (Bunrang) at Conradh na Gaeilge, Dublin.

Russian: "Russian for Beginners" course in Trinity College, Dublin, Ireland (72 hours). "Lower Intermediate Russian" course in Trinity College, Dublin, Ireland (36 hours).

Extra-Academic Activities

- Director of the theatre performances "La batalla d'Almansa" (based on an own script) and "Ràbia" (based on the novel "Rage" by Stephen King), at the University of València, premières April 1999 and May 2000.
- Member of the student association "AEN - Assemblea d'Estudiants Nacionalistes", University of València, from 1998 till 2001.
- Student representative at the Department of Optics, University of València, during the academic year 1998-99.
- Monitor of the 40-hour course on Computer-assisted-laboratory of Science ("De les imatges i de les sensacions a la mesura" - "From the images and the sensations to the measurement"), at the Alacant University Summer School (in Cocentaina, Spain), July 1998.
- Member of the founding committee and president during two years of the association: "Associació Aldarull de l'IES Jorge Juan", during the academic years 1994-95 and 1995-96. Activities: theater performances, talks, publication of the magazine "Tot seguit"...
- Twice obtained the First Award in the Stories Contest in Catalan of the high school "Jorge Juan", Alacant, with the story "Sarajevo 1992" (1993), and "Stonehenge" (1995).
- Member of the cultural society "ACPV - Acció Cultural del País Valencià" since 1994.
- Member of AI (Amnesty International) since 1995.
- Founding member of the association for the teaching of Physics and Chemistry "AEFiQ-Curie, Associació per a l'Ensenyament de la Física i Química", of Alacant, from 1995.
- Member of the theatre play group "Elisa", high school "Jorge Juan", academic years 1991-92 and 1992-93.