

Curriculum Vitae & List of Publications

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Vita & Education & Employment

I was born in Montebelluna, Italy, on 23 January 1975. I am an Italian Citizen.

I hold a Diploma of Scientific Studies from the "Primo Levi" Scientific High School of Montebelluna (July 1993, 60/60), an MSc in Physics from the University of Padova (17 July 2000, 110/110 *cum laude*) and a PhD in Space Science and Technology from the University of Padova (21 May 2004).

From November 2003 to September 2005 I have been employed as a SPIRE ICC Scientist & Herschel Post-Doctoral Fellow within the Astrophysics Group at Imperial College, London, UK.

From September 2005 to November 2011 I have been employed as a Herschel Post-Doctoral Fellow within the Department of Astronomy at the University of Padova.

From November 2011 to date I have been employed as a SKA Post-Doctoral Fellow within the Astrophysics Group at the University of the Western Cape, Cape Town, South Africa.

Research & Work Experience

My research experience has mostly been concerned with multi-wavelength observational studies of galaxy formation and evolution in order to characterize long-wavelength extragalactic populations detected by ISO, SCUBA, Spitzer and Herschel through studies of their number counts, luminosity functions, clustering and spectral properties. I have thus been involved in a number of projects involving data reduction and analysis at optical, infrared and SMM wavelengths as well as simulations of data streams from space missions operating at these wavelengths. I have also worked on several space-based instrumentation and related software development projects, both in their planning and proper development phases. Most of my work has been carried out

within a number of large survey projects undertaken by international consortia, where I have developed a strong interest in techniques for the automated reduction and statistical analysis of large datasets on one hand and in software development and system administration on the other.

More specifically, during my MSc studies at the University of Padova I have worked on simulations of galaxy observations with the planned ESA GAIA satellite, in order to exploit GAIA all-sky survey capabilities to perform studies of Galaxy Formation and Evolution and Large Scale Structure in the Local Universe. This included the careful simulation of different instrumental effects and the implementation of various image reconstruction techniques and was carried out in close collaboration with the GAIA Science Team, particularly with my supervisors in Copenhagen (where I spent 10 months working on this project), Dr. Erik Høg, and in Padova, Prof. PierLuigi Bernacca. This study has brought to the inclusion of galaxy observations into the baseline GAIA science plan and has also allowed me to join the Photometry and Imaging Working Group established by ESA for the GAIA mission.

During my PhD studies at the University of Padova (November 2000 to October 2003), which I carried out under the supervision of Prof. Alberto Franceschini, I have worked on two lines of research within the scope of space extragalactic long-wavelength astronomy. The former involved the development of tools for ISOCAM and ISOPHOT data reduction and analysis, now jointly known as LARI Method, involving new techniques for cosmic ray impact detection, mathematical modeling of detectors' behavior and mapping/projection. The method is particularly suited for the reliable detection of faint sources in ISO noisy raster maps, and was first tested and employed in the data reduction of ELAIS (the largest open-time project undertaken by ISO) and ultradeep 15 micron ISOCAM fields, producing the largest extragalactic catalog based on ISO data and providing substantial improvements with respect to other methods as far as reliability, completeness, astrometric and photometric accuracy are concerned. The extreme reliability of the catalog has in time allowed a wide variety of projects involving multi-wavelength identification and follow-up observations as well as useful comparisons with Spitzer results obtained at 24 micron. Within the latter line of research I carried out numerical simulations of the performance to be expected from future space IR instrumentation, and applied them to JWST MIRI instrument and to Herschel PACS and SPIRE instruments, the final aim being to contribute to the science planning of extragalactic large-area surveys to be carried out with such instrumentation.

While working at Imperial College London (November 2003 to September 2005) as a Post-Doctoral Researcher with Prof. Michael Rowan-Robinson and Dr. David Clements, my interests have largely diversified. While I have continued my involvement in multi-wavelength identification and follow-up of ISO sources, I have started work on the ideal successor of the ELAIS ISO project, i.e. the SWIRE survey. The largest portion of Spitzer Legacy Science Program, SWIRE observed in all Spitzer photometric channels 50 square degrees, split into six fields where extensive multi-wavelength coverage is or will soon be available, producing a catalog of about 2 million infrared galaxies. In this context, I have been collaborating to the catalog validation and leading the characterization of the survey selection function, which has allowed the whole team to work on number counts, luminosity functions and clustering studies on statistically well-defined samples of sources selected at various wavelengths and thus make full use of the photometric redshift information that is available for a substantial fraction of

detected sources. Specifically, SWIRE-related projects I am involved in include SWIRE observations of ELAIS 15 micron, FIRBACK 175 micron and SHADES 850 micron sources, LSS studies using photometric redshifts and modeling of IRAC and MIPS source number counts as determined both by SWIRE and other Spitzer public data. In particular, I have led the production of catalogs and the determination of source counts from SWIRE 70 and 160 data, which provided the largest extragalactic catalog at these wavelengths from any single Spitzer project. Ongoing follow-up projects I am involved in include SCUBA and MAMBO continuum observations of SWIRE-selected ULIRGs and several spectroscopic campaigns aimed at different classes of sources. Always on the Spitzer side, I have been collaborating with Italian colleagues of extensive ISO-related experience on applications of our expertise to Spitzer data by exploiting the data that are already available from the Spitzer archive, e.g. in the GOODS (HDFN and CDFS) ultra-deep fields, which has provided complementary results with respect to SWIRE's but also allowed me to gain further insight into Spitzer instrumentation.

While in London, however, a substantial part of my time has been spent on observation planning, software development and ground testing/calibration for the SPIRE camera that will fly on board ESA's Herschel satellite, scheduled for launch in 2009. As a major partner in the SPIRE consortium, Imperial College London has been contributing to a vast array of key preparatory activities such as: the software development effort on the SPIRE-specific data reduction pipeline, where I was a lead developer; the users feedback process on the Herschel-wide (i.e cross-instrument) Data Processing system, which saw me as SPIRE representative within the Herschel Data Processing Users Group established by ESA; the definition of SPIRE observing modes and their implementation in the Herschel observing proposal handling tool (HSPOT) developed by ESA, where I co-led the SPIRE Observation Planning Team with responsibility for photometric mapping observations; instrument ground testing, where I contributed through the integration of the instrument simulator with the data reduction pipeline, the specification of the actual tests and the analysis of test data; the planning of the SPIRE GT Data Releases, where I worked on the integration of SPIRE and Herschel data products within the architecture of the Virtual Observatory. In this context, I have been representing SPIRE in a number of Herschel-wide bodies established by ESA. This work has gained me access to the teams that are planning guaranteed- and open-time Key Programs with PACS and SPIRE, including HerMES and H-ATLAS, the largest Herschel guaranteed- and open-time Key Programs, respectively.

Partly as a useful complement to my SWIRE involvement and partly to pave the way to my Herschel work I have also worked on some of the most ambitious ground-based extragalactic SMM survey projects. I have extensively observed with SCUBA at JCMT for SHADES and worked on the identification of SHADES sources by means of SWIRE data, I am contributing to similar efforts carried out with LABOCA 850 micron camera at APEX and with AZTEC 1.1 mm camera operated at JCMT. I am now part of the consortium in charge of the JCMT Legacy Survey with HARP and SCUBA2, and in particular of the SCUBA2 Cosmology Legacy Survey.

Having gone back to Padova in September 2005, I have continued my work on SWIRE data as well as on archival data provided by COSMOS and GOODS, focusing on the properties of galaxies detected at MIPS wavelengths and assembling a large spectro-photometric database aimed at their characterization. In so doing, I have developed, refined and automated powerful in-house algorithms for maximum-likelihood source identification across multi-wavelength catalogs, calculation of luminosity functions, two-point correlation functions and photometric

redshifts, and then applied them, in collaboration with colleagues and students, to a number of science projects investigating galaxy evolution within the most popular "Cosmic Windows", in the process extensively supervising graduate students and leading to three MSc projects and three PhD projects. I have thus made extensive use of public as well proprietary datasets in the SWIRE, COSMOS, GOODS and other fields, producing added-value data products which will be extremely useful for studies to be carried out with Herschel, Planck, SCUBA2, LMT and other future facilities. I have played a leading role in planning and detailing the observations for the ongoing Spitzer Extragalactic Representative Volume Survey (SERVS) and Herschel Multi-Tiered Extragalactic Survey (HerMES) projects, employing 1400 and 900 hours of Spitzer-Warm and Herschel time respectively. In particular, I have been assembling the existing ancillary data from the FUV to the FIR required to timely and effectively exploit Spitzer and Herschel data, and I have been developing a flexible cross-correlation framework to allow an effective and quick ingestion of new Spitzer and Herschel observations into a multi-wavelength database. Such a database, now known as data fusion within the SERVS and HerMES consortia, has been extremely useful to fully and timely exploit early Spitzer-Warm and Herschel data and provides a powerful platform for the exploitation of surveys which will become available in these fields in the near future such as the the completion of UKIDSS, VST and VISTA public surveys, the VOICE VST GT survey and radio surveys with LOFAR, ASKAP and MeerKAT. The data fusion will allow us to consistently compute accurate photometric redshifts, stellar masses and star formation rates for both NIR, FIR and radio-selected samples, help us to reconcile estimates of stellar masses and star formation rates for sources at $1 < z < 5$ and thus construct a self-consistent picture of stellar mass build-up across most of Cosmic Time.

From 2007 onwards I have been involved in a number of studies for the science planning of future FIR and (S)MM instrumentation and related survey projects. Using our state-of-the-art models for the numbers and properties of long-wavelength extragalactic populations developed to reproduce available observations by ISO, Spitzer and SCUBA, I have carried out extensive simulations of the number counts, redshift distributions and luminosity functions as they would be obtained by Herschel, Planck, SCUBA2, LMT as well as by the current concepts for SPICA, FIRI, Millimetron, the Antarctic SMM Observatory (ASO) under study for deployment at the French-Italian Concordia (Dome C) Antarctic station and the Spectroscopic Active Galaxies and Cluster Explorer (SAGACE) satellite recently approved for a Phase-A study by ASI. In particular, I was part of the team in charge of ESA's Cosmic Vision 2008-2009 Phase-A study for the SAFARI (SPICA Far-Infrared Instrument) instrument to be flown on the SPICA (Space Infrared telescope for Cosmology and Astrophysics) JAXA satellite, I have actively participated into the ARENA (Antarctic Research European Network for Astrophysics) network funded by the European Commission to study the opportunity for a large astronomical facility to be operated in Antarctica, and I was part of the Euclid Science Team's successful bid to ESA to develop the Euclid space mission. I have managed a number of ESA/ASI contracts awarded to our group to develop some of the above projects, and in particular the Padova contribution to the PACS and SPIRE ICCs, supervising their progress and reporting to ESA/ASI.

From November 2011 to date I have been employed as a SKA Post-Doctoral Fellow at the University of the Western Cape and working on multi-wavelength galaxy formation and evolution studies and preparing MeerKAT extragalactic survey projects such as LADUMA and MIGHTEE.

Computing

- I have an in-depth and long-time knowledge of a wide variety of Unix-like operating systems and a working knowledge of MS Windows operating systems. All other things being equal, however, Apple's Mac OS X has long been my OS of choice.
- I have an extensive experience in scientific programming, data analysis and GUI development using IDL, Java Python/Jython, IRAF/PyRAF and Unix-like shell scripting. I am an expert user of standard command-line and graphical tools for astronomical catalog and image visualization and manipulation such as Aladin, DS9, Gaia and Stilts/Topcat and have got substantial experience in their integration within the VO for archival research. I also have a more limited experience in using Matlab/Scilab, Mathematica, R and x/g-gobi as well as in Fortran, C, C++, Perl and sed/awk programming.
- I have substantial experience in HTML, PHP and CGI scripting applied to the dynamic generation of web pages as well as a more limited experience in web design, maintenance and administration running e.g. Apache and php/mysql, phpBB, TWiki and Drupal.
- I have long worked on and/or administered machines running a wide variety of Unix flavors and Linux distributions, such as Sun (Open) Solaris, Digital Unix, Apple Mac OS X, RedHat, Fedora, Mandrake, Mandriva, Ubuntu and Debian.
- Within the ISO/ELAIS project I have contributed substantially to the production of a GUI-based software package (The LARI Package) for the interactive reduction of ISO-CAM/PHOT data exploiting a physical model of the detectors' behavior.
- Within the Spitzer/SWIRE project I have led the production of a versatile set of software tools simulating Spitzer (and later Herschel) maps and instrumental features. These tools were extensively used in designing the SWIRE (and later HerMES) survey and in producing simulations aimed at characterizing the survey selection function at IRAC and MIPS (and later PACS and SPIRE) wavelengths.
- Within the Herschel/SPIRE project I have contributed to the full development cycle of the Herschel Observation Planning Tool (HSPOT) and of the Herschel Interactive Processing Environment (HIPE), from the compilation of detailed user requirements to the realization of GUIs, the implementation of map-making algorithms and finally the evaluation of users' feedback, as member of a number of bodies established by ESA and the SPIRE consortium.

Teaching

- While at the Department of Physics of Imperial College London (2003-2005) I have been teaching undergraduate students both in the class and in the lab (quantum mechanics, solid state physics, astrophysics, spectroscopy lab).
- I have supervised a number of BSc, MSc and PhD research projects: Lucia Dalla Valle (MSc Mar 2007), Lucia Marchetti (MSc Oct 2008), Giacomo Tarsi (MSc Jul 2009), Filippo Oppizzi (BSc July 2010), Gabriele Mainetti (PhD End 2010), Svetlana Starikova (PhD End 2010), Lucia Marchetti (PhD Mid 2012).

Visiting

- EU Erasmus Fellowship to Copenhagen University Observatory (1998 - 1999, 4000 Euros)
- Gini Foundation Fellowship to Imperial College London (2007, 5000 Euros)
- Lincei Academy Fellowship to University of Sussex (2010, 6000 Euros)

Memberships

- SWIRE (Spitzer Legacy Program) Science Team (2003 - date)
- SPIRE High-Redshift Galaxies Science Team (HerMES GT KP) (2003 - date)
- SPIRE Low-Redshift Galaxies Science Team (DGS/HRS/VNGS GT KPs) (2003 - date)
- SPIRE ICC Observation Planning and Software Development Teams (2003 - date)
- Herschel Data Processing Users Group (2003 - 2005 & 2007 - 2011)
- SHADES (2004 - date) and SHADES/AZTEC (2007 - date) Consortia
- JCMT Legacy Survey Consortium (2005 - date)
- H-ATLAS (Herschel OT KP) Science Team - (2008 - date)
- SERVS (Spitzer Warm Exploratory Science Program) Consortium (2008 - date)
- SAFARI/SPICA Consortium & Science Team (2008 - date)
- EMU (ASKAP Survey Program) Consortium (2009 - date)
- LADUMA & MIGHTEE (MeerKAT Survey Program) Consortia (2010 - date)
- HSLs (Herschel SPIRE Legacy Survey Program) Consortium (2010 - date)
- WODAN (WSRT APERTIF Survey Program) Consortium (2010 - date)
- VIDEO (ESO VISTA Public Survey Program) Consortium (2010 - date)
- VOICE (ESO VST GT Survey Program) Consortium Co-PI (2010 - date)
- EUCLID Consortium & Science Team (2010 - date)
- COSMOS Consortium (2011 - date)

Languages

- Italian: native
- English: fluent
- French: fair
- Spanish: basic

Summary

I have got a keen interest and an extensive experience in the exploitation of large-area multi-wavelength extragalactic surveys aimed at giving extragalactic astrophysics and observational cosmology in general, and particularly at FIR and SMM wavelengths, a sound statistical basis. I have thus developed a wide-ranging expertise in astronomical data reduction and analysis and related software development and in science and observation planning for space astronomy missions. I have also worked on the numerical modeling of astronomical instrumentation and sky properties in order to evaluate the expected performance of future instrumentation, and on the testing/commissioning of space instrumentation.

I have been involved in the development of one of the most powerful method for ISO data reduction and analysis, and I led major ISO and Spitzer data reduction and analysis programs, including the production of the largest ISO 15 micron and Spitzer 70 and 160 micron extragalactic catalogs produced to date by any individual project carried out by these missions at these wavelengths. I have contributed to the definition and development of the Herschel/SPIRE ground segment and data processing system. I am an expert in multi-wavelength extragalactic surveys, catalog cross-correlation and source identification, and I have led the production of the largest Spitzer-selected multi-wavelength extragalactic catalog available to date.

I have long been involved in international scientific consortia, coordinating working groups of both a scientific and technical nature, organizing and managing meetings, drafting requirements and similarly carrying out a variety of management tasks, and I have thus developed strong links with the FIR and SMM scientific and instrumental community. I am genuinely attracted to challenges and projects requiring a wide range of expertise. I often have strong opinions but appreciate the need to come to a mutually satisfactory agreement, and I enjoy working as part of a focused team as well as taking the lead on specific issues.

References

The following can all be contacted upon request:

- Dr. Dave Clements, Imperial College London, UK
(ELAIS & H-ATLAS & HerMES & SCUBA2 & SHADES & SERVS & SPIRE & SWIRE)
- Prof. Alberto Franceschini, University of Padova, Italy
(ELAIS & HerMES & SERVS & SPIRE & SWIRE)
- Dr. Matt Jarvis, University of Hertfordshire, UK & University of the Western Cape, SA
(LADUMA & MIGHTEE & SERVS & VIDEO)
- Dr. Mark Lacy, NAASC/NRAO, US
(SERVS)
- Prof. Seb Oliver, University of Sussex, UK
(ELAIS & HerMES & SCUBA2 & SHADES & SERVS & SPIRE & SWIRE & VIDEO)
- Prof. Michael Rowan-Robinson, Imperial College London, UK
(ELAIS & HerMES & SCUBA2 & SHADES & SERVS & SPIRE & SWIRE)

Publications

My full list of *published* papers totals ~ 130 , including ~ 90 refereed ones. The number of citations generated by *refereed* publications is ~ 2600 , leading to an *impact factor* (as defined by Hirsch 2005 and Hirsch 2008) with an h index of 25 and an \hbar index of 3.4 (computed using the ADS and counting from July 2004, i.e. the end of my PhD studies and the date of publication of my first paper, to date). Publications which have been accepted (but not as yet published) as well as those which are currently with the referee are also listed (but not considered in the numbers above) to give a feeling of my recent and ongoing work.

2002

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2003

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2004

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2005

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2007

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2009

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2010

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Vaccari M. 2004, PhD Thesis, Department of Astronomy, University of Padova, "Space Infrared Extragalactic Surveys : Results from ISO and Future Prospects"

Presentations

17 May 2001 - "GAIA : a European Space Project" Summer School, 14-18 May 2001, Ecole de Physique des Houches, Les Houches, France. "GAIA Galaxy Survey: a Multi-Color Galaxy Survey with GAIA", **Invited Talk**

25 September 2001 - "Probing the Origin of the Extragalactic Background Radiation" EU TMR Network Meeting, 25-26 September 2001, Imperial College, London, UK. "ELAIS 15 μm Northern Fields: A Status Report on Data Reduction with the LARI Method"

6 February 2002 - Padova Workshop on Galaxy Formation and Evolution, 6-7 February 2002, Department of Astronomy, University of Padova, Padova, Italy. "ISO Extragalactic Surveys: Data Reduction with the LARI Method"

27 June 2002 - Exploiting the ISO Data Archive: Infrared Astronomy in the Internet Age, 24-27 June, 2002, Sigüenza, Spain. "Final Analysis of ELAIS 15 μm Northern Fields: Data Reduction with the LARI Method"

27 August 2002 - Asiago Rendez-Vous 2002: Nuove prospettive per l'Astronomia Italiana dalla Terra e dallo Spazio, 26-27 August 2002, Asiago Astrophysical Observatory, Asiago, Italy. "The ELAIS Fields: Final Results from ISO and Future Prospects"

4 September 2002 - ROE Workshop 2002, "The Invisible Universe - Survey Astronomy at Wavelengths beyond 1 Micron", 4-5 September 2002, ROE, Edinburgh, UK. "The ELAIS Fields: Final Results from ISO and Future Prospects"

17 December 2002 - PACS Extragalactic Programs Italian Meeting, SISSA/ISAS, Trieste, Italy. "Extragalactic Surveys with Herschel"

16 April 2003 - 47th SAIIt (Società Astronomica Italiana - Italian Astronomical Society) Congress, "Nuovi Orizzonti dell'Astrofisica Italiana", 14-17 April 2003, Trieste, Italy. "The ELAIS Fields: Final Results from ISO and Future Prospects"

9 May 2003 - SIGRAV Graduate School in Contemporary Relativity and Gravitational Physics, Fifth Edition: Joint Evolution of Black Holes and Galaxies, 5-10 May 2003, Villa Olmo, Como, Italy. "The ELAIS Fields: Final Results from ISO and Future Prospects"

18 June 2003 - Multiwavelength Cosmology, 17-20 June 2003, Mykonos, Greece. "Final Anal-

ysis of ELAIS 15 μm Fields”

11 Aug 2004 - SWIRE Science Team Meeting, 9-13 August 2004, Imperial College, London, UK. ”SWIRE Data Reduction : Catalogue Validation & Selection Function Characterization Through Simulations”

30 September 2004 - SPIRE Consortium Meeting, 28-30 September 2004, RAL, UK, ”SPIRE Interactive Analysis Software : Presentation and Demonstration”

11 May 2005 - SPIRE Photometer Simulator Workshop, 11 May 2005, RAL/CCLRC, Chilton, UK. ”SPIRE Data Processing”

21 July 2005 - SPIRE Consortium Meeting, 19-21 July 2005, CalTech, Pasadena, California, USA. ”SPIRE Data Products”

31 January 2007 - Herschel Open Time Extragalactic Key Program Workshop, 31 January 2007, Padova, Italy. ”Observing Extragalactic Surveys with SPIRE”

28 Mar 2007 - ”The Origin of Galaxies : Exploring Galaxy Evolution with the New Generation of Infrared-Millimetre Facilities”, Universitätszentrum, Obergurgl, Austria, **Invited Talk**

21 April 2007 - 51st SAIIt (Società Astronomica Italiana - Italian Astronomical Society) Congress, Firenze, Italy. ”The FIR & Sub-mm View on Galaxies: from Spitzer & SCUBA to Herschel & SCUBA2”

14 May 2007 - Weekly Seminar, UBC, Vancouver, Canada

19 June 2007 - ”The Astrophysical Science Cases at Dome C” 2nd ARENA Conference, Potsdam, Berlin, **Invited Talk**

26 June 2007 - ”Submm/FIR Astronomy from Antarctica : Toward a Large Single-Dish Telescope at Dome C?” ARENA Workshop, CEA, **Invited Talk**

24 July 2007 - Italian Antarctic Astronomy Meeting, INAF, Monte Mario, Roma.

1-9 August 2007 - Guillermo Haro Workshop 2007, INAOE, ”The Large Millimeter Telescope : First-Light Science and Future Surveys”, **Invited Talk**

20-21 Nov 2007 - Weekly Seminar, NRAO, Socorro

16 Jan 2008 - Padova Astronomical Observatory Weekly AstroPizza, ”FIR & sub-mm Astronomy comes of age : Herschel Space Observatory Observing Opportunities”

18-19 February 2008 - EARA Workshop, ”The Herschel Promises for Galaxy Evolution Studies”, IAP, Paris.

6-7 March 2008 - SAGACE Workshop, Department of Physics, La Sapienza University, Roma, Italy. "A sub-mm & mm Spectroscopic View on Herschel & SCUBA2 Starburst Galaxies : Planning for SAGACE Follow-Up Studies"

2-6 June 2008 - SPIRE ICC Meeting, NHSC, IPAC, CalTech, Pasadena, USA. "SPIRE Visualization Tools"

1-3 December 2008 - EURO-VO "Multi-Wavelength Astronomy & Virtual Observatory" Workshop, ESAC/ESA, Madrid. "Local Benchmarks of IR Galaxy Evolution : The SWIRE-SDSS Far-Infrared Local Luminosity Function & VO Tools".

23 January 2009 - HerMES Meeting, CalTech, Pasadena, USA, "HerMES Herschel Observations"

13 May 2009 - ARENA3 Conference "An astronomical Observatory at Dome C (Antarctica) for the next decade", Villa Tuscolana, Frascati, Roma. "Resolving the FIR/SMM Background from Concordia Station"

15 June 2009 - HerMES Meeting, RAL, Chilton, UK, "HerMES Herschel Observations"

3 July 2009 - VIIth Marseille International Cosmology Conference "Harvesting the Desert : The Universe Between Redshift 1 and 3", Marseille, France. "The Herschel Multi-tiered Extragalactic Survey (HerMES) - Measuring the Infrared Galaxy Formation History of the Universe"

5 October 2009 - HerMES Meeting, Imperial College, London, UK, "HerMES Multi-Wavelength Data Fusion"

1 December 2009 - HerMES Meeting, University of Sussex, Brighton, UK, "HerMES Multi-Wavelength Data Fusion"

15 June 2010 - HerMES Meeting, University of Padova, Italy, "HerMES Multi-Wavelength Data Fusion"

25 October 2010 - "The Herschel Space Observatory : Rationale, Mission and Challenges", National School of Astrophysics, 25-29 October 2010, Asiago Astrophysical Observatory, Asiago, **Invited Talk**

7 December 2010 - HerMES SCAT/XID Meeting, University of Sussex, Brighton, UK, "HerMES Data Fusion Wide and Deep"

18 January 2011 - HerMES Consortium Meeting, UBC, Vancouver, Canada, "Multi-Wavelength Data Fusion Deep & Wide for HerMES DR1 Science"

14 March 2011 - SERVS Consortium Meeting, IAP, Paris, France, "IRAC12 Band-Merging & Multi-Wavelength Data Fusion for SERVS Science"

1 September 2011 - "Feeding the Giants : ELTs in the era of Surveys" ESO Workshop, Ischia, Italy, "HerMES : The Herschel Multi-Tiered Extragalactic Survey"

11 November 2011 - SKA-SA 2011 Postgraduate Bursary Conference, Stellenbosch, South Africa, "From Spitzer to Herschel Extragalactic Surveys : The Evolution of the Infrared Luminosity Function and of the Cosmic Star Formation Rate Density"

22 December 2011 - Group Seminar, USM/LMU, Munich, Germany, "From Spitzer to Herschel Extragalactic Surveys : The Evolution of the Infrared Luminosity Function and of the Cosmic Star Formation Rate Density"