

Hervé Bouy

Curriculum Vitæ

Astronomy Dpt
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Born 14th January 1977
in Angers (France)
French Nationality
Single, no child

FELLOWS & JOBS

- 2006-2008** POSTDOCTORAL POSITION.
UC Berkeley, USA.
▷ *Marie Curie Outgoing Fellowship.*
- 2004-2006** POSTDOCTORAL POSITION.
I.A.C, Tenerife, Spain.
▷ *Department of Bioastronomy.*

EDUCATION

- 2001-2004** PHD.
PhD thesis, « Fundamental Properties of Binary Ultracool Dwarfs », E.S.O & M.P.E (Garching, Germany), L.A.O.G (Grenoble, France)
▷ « *cotutelle* » (=« double PhD ») *between Université de Grenoble and Ludwig Maximilian Universität in Munich.*
- 2000-2001** D.E.A « ASTROPHYSICS & PLASMAS ».
5th year at University, L.A.O.G (Grenoble, France)
▷ *passed with distinction.*
- 1998-2000** C.A.P.E.S PHYSICS AND CHEMICAL SCIENCES.
Preparation to the competitive examination conducted by the French State for admission to posts on teaching staff of High Schools in physics and chemical sciences
▷ *passed.*
- 1997-1998** MAÎTRISE IN PHYSICAL SCIENCES.
4th year at University (\approx Master), Université Paul Sabatier, Toulouse, France
▷ *passed with distinction.*
- 1996-1997** LICENCE IN PHYSICS AND CHEMICAL SCIENCES.
3rd year at University (\approx Bachelor Degree), Université d'Angers, France
▷ *passed with distinction.*
- 1994-1996** DIPLÔME D'ÉTUDES UNIVERSITAIRES GÉNÉRALES.
1st & 2nd years at University, Université d'Angers, France
- 1995** DIPLÔME UNIVERSITAIRE OF ASTROPHYSICS & ASTRONOMY.
Degree taken after 1 year at University, Université Paris XI

- 2005** ▷ I.A.C Workshop : “Ultralow mass star formation and evolution”, La Palma, Spain, 2005
- 2003** ▷ International Astronomical Union General Assembly, Sydney, Australia, July 16-25
- ▷ E.S.O Workshop : “Science with Adaptive Optics”, Garching, Germany, 16-19 September, Member of the Local Organizing Committee
- 2002** ▷ International Astronomical Union Symposium 211, “Brown Dwarfs”, Hawai’i, U.S.A, May 20-14

TRAINING COURSE & SCHOOLS

- 15-21 Dec. 2003** EXTRASOLAR PLANETS AND BROWN DWARFS, SANTIAGO DE CHILE.
First Advanced Chilean School in Astrophysics
- 9-21 Sept. 2002** 3RD NEON EURO SCHOOL, ASIAGO, ITALY.
Observing Summer School, Asiago Observatory (Network of European Observatories in the North), sponsored by the European Community
- 15 Mar 2001 to
25 Jun 2001** INSTITUTE FOR ASTRONOMY, HAWAI’I.
Research Assistant at the Institute for Astronomy of University of Hawai’i, working on brown dwarfs and halo-binaries, using XMM- and IR-data, observing with UH88” on Mauna Kea Observatory

OBSERVATIONAL EXPERIENCE

- High Angular Resolution** HUBBLE SPACE TELESCOPE.
Intensive use of HST high resolution cameras (WFPC2, ACS, STIS). Development of a PSF fitting program to analyse binary stars images, with a calibrated accuracy of 0.001” on the relative astrometry.
- High Angular Resolution** ADAPTIVE OPTICS AT THE ESO/VLT.
Intensive use of VLT/NACO (P.I on 3 programs). Participation to the commissioning of the instrument in Paranal
- Spectroscopy** LOW RESOLUTION SPECTROSCOPY.
Observation and Analysis of VLT/FORS2 and HST/STIS low resolution spectra
- X-Ray** XMM-NEWTON.
Experienced with the processing and analysis of XMM X-Ray data
- Infrared** SPITZER.
Experienced with the processing and analysis of Spitzer Space Telescope infrared data (IRAC)

COMPLEMENTARY INFORMATIONS

- Computer Sciences** UNIX & Linux, C, IDL, L^AT_EX, Windows, Adobe Illustrator & Photoshop
- Languages** French
▷ *Mother tongue.*
English
▷ *Read : good, Written : good, Spoken : good.*
German
▷ *Read : good, Written : good, Spoken : good.*
Spanish
▷ *Read : intermediate, Written : intermediate, Spoken : intermediate.*

GRANTS AND STUDENTSHIPS

2004	3 Years Marie Curie Outgoing Fellowship at UC Bberkeley (USA) and I.A.C (Spain)
2004	1 Year Studentship at M.P.E in Garching, Germany
2001–2003	2 Years Studentship at E.S.O headquarters in Garching, Germany
2001	5 Months Undergraduate Studentship at the IfA in Honolulu, U.S.A

OTHER MERITS

2006	Principal-Investigator of ESO/VLT programs 076.C-0139, 077.C-0062 and 077.D-0259 Principal-Investigator of HST program GO10559 Member of the New-York Academy of Sciences
2005	Principal-Investigator of ESO/VLT programs 075.C-0147 and 075.C-0148
2004	Member of the French Astronomical and Astrophysical Society (SF2A) and of the European Astronomical Society (EAS) Scientific Referee for the journals “ <i>Astronomical Journal</i> ” and “ <i>Astronomy & Astrophysics</i> ” Principal-Investigator of ESO/VLT programs 74.C-0018A & B Principal-Investigator of ESO/VLT programs 73.C-0557A & B co-Investigator of HST program GO10208
2003	Principal-Investigator of ESO/VLT program 71.C-0327A
2002	Principal-Investigator of HST program GO9831 Principal-Investigator of ESO/VLT programs 70.D-0773A and 71.C-0327A
2001	co-Investigator (P.I Brandner) of HST program GO9451 Principal-Investigator of ESO/VLT program 69.C-0588A

REFEREED PUBLICATIONS

- 2006**
- ▷ MULTIPLICITY OF VERY LOW-MASS OBJECTS IN THE UPPER SCORPIUS OB ASSOCIATION : A POSSIBLE WIDE BINARY POPULATION.
Bouy, H. ; Martin, E. L. ; Brandner, W. ; Zapatero-Osorio, M. R. ; Bejar, V. J. S. ; Schirmer, M. ; Huelamo, N. ; Ghez, A. M., accepted for A&A
 - ▷ A HUBBLE SPACE TELESCOPE ADVANCED CAMERA FOR SURVEYS SEARCH FOR BROWN DWARF BINARIES IN THE PLEIADES OPEN CLUSTER.
Bouy, H. ; Moraux, E. ; Bouvier, J. ; Brandner, W. ; Martín, E. L. ; Allard, F. ; Baraffe, I. ; Fernández, M., 2006, ApJ, 637, 1056
 - ▷ SPECTROSCOPIC ROTATIONAL VELOCITIES OF BROWN DWARFS.
Zapatero Osorio, M. R. ; Martin, E. L. ; **Bouy, H.** ; Tata, R. ; Deshpande, R. ; Wainscoat, R., accepted for publication in A&A
- 2005**
- ▷ VISIR/VLT OBSERVATIONS OF BROWN DWARFS IN UPPER SCORPIUS.
Huélamo, N. ; **Bouy, H.** ; Sterzik, M. ; Pantin, E. ; Martín, E. L., 2005, AN, 326, 1022
 - ▷ ULTRACOOL DWARF BINARIES.
Bouy, H. ; Martín, E. ; Brandner, W. ; Bouvier, J., 2005, AN, 326, 969
 - ▷ LITHIUM DEPLETION IN THE BROWN DWARF BINARY GJ 569BAB.
Zapatero Osorio, M. R. ; Martín, E. L. ; Lane, B. F. ; Pavlenko, Ya. ; **Bouy, H.** ; Baraffe, I. ; Basri, G., 2005, AN, 326, 948
 - ▷ DISCOVERY OF A TRIPLE SYSTEM OF BROWN DWARFS WITH THE HUBBLE SPACE TELESCOPE.
Bouy H., Martín E. L., Brandner W., Bouvier J., accepted for publication in the Astrophysical Journal, January 2005
- 2004**
- ▷ ASTROMETRIC MONITORING OF THE BINARY BROWN DWARF DENIS-P J1228.2-1547.
Brandner W., Martín E. L., **Bouy** et al., 2004, Astronomy & Astrophysics, 428, 225
 - ▷ FIRST DETERMINATION OF THE ORBIT AND DYNAMICAL MASS OF A BINARY L1 DWARF.
Bouy et al., Astronomy & Astrophysics, 2004, 423, 341
 - ▷ A YOUNG BINARY BROWN DWARF IN THE R-CrA STAR FORMATION REGION.
Bouy, H., Brandner, W., Martín, E. L., Delfosse, X., Allard, F., Baraffe, I., Forveille, T., Demarco, R., Astronomy & Astrophysics, 424, 213
 - ▷ X-RAY DETECTION OF TWO YOUNG BONA FIDE BROWN DWARFS.
Bouy, H., Astronomy & Astrophysics, 2004, 424, 619
- 2003**
- ▷ MULTIPLICITY OF NEARBY FREE FLOATING ULTRACOOL DWARFS : A HST/WFPC2 SEARCH FOR COMPANIONS.
Bouy, H., Brandner, W., Martín, E. L., Delfosse, X., Allard, F., Basri, G., The Astronomical Journal , 2003, 126, 1526-1554
 - ▷ AN HST/WFPC2 SURVEY FOR BROWN DWARF BINARIES IN THE ALPHA PER AND THE PLEIADES OPEN CLUSTERS.
E. L. Martín, D. Barrado y Navascues, I. Baraffe, **H. Bouy**, S. Dahm, The Astrophysical Journal, 594, 525-532, 2003
 - ▷ FIRST NACO OBSERVATIONS OF THE BROWN DWARF LHS 2397AB.
E. Masciadri, W. Brandner, **H. Bouy**, R. Lenzen, A.M. Lagrange, F. Lacombe, Astronomy & Astrophysics, 2003, 411, 157
- 2002**
- ▷ XMM-NEWTON OBSERVATION OF THE NEARBY BROWN DWARF LP944-

- 2004** ▷ STATISTICAL AND PHYSICAL PROPERTIES OF BINARIES OF LOW-MASS STARS AND BROWN DWARFS.
H. Bouy, W. Brandner, E. L. Martín, “*SF2A-2004 : Semaine de l’Astrophysique Francaise, meeting held in Paris, France, June 14-18, 2004*”, Eds. : F. Combes, D. Barret, T. Contini, F. Meynadier and L. Pagani EdP-Sciences
- 2003** ▷ SUBSTELLAR COMPANIONS TO BROWN DWARFS : FIRST STEPS TOWARD A DIRECT DETECTION OF EXOPLANETS.
W. Brandner & **H. Bouy**, “*Towards Other Earths - Darwin/TPF and the Search for Extrasolar Terrestrial Planets*”, MPIA, Heidelberg, June 2003
- ▷ BROWN DWARFS COMPANIONS TO SOLAR-TYPE STARS AND OTHER BROWN DWARFS.
Martín, E.L, Connelley M., Potter, D., **Bouy, H.**, IAU Symposium Vol 213, 2003, R. Norris
- ▷ HIGH RESOLUTION OBSERVATIONS OF BINARY BROWN DWARFS.
Hervé Bouy & Wolfgang Brandner, “*Science with Adaptive Optics*”, E.S.O Garching , September 2003
- 2002** ▷ NAOS+CONICA AT YEPUN : FIRST VLT ADAPTIVE OPTICS SYSTEM SEES FIRST LIGHT.
Brandner **et al.**, E.S.O Messenger, 107, 2002
- ▷ A CENSUS OF BROWN DWARF BINARIES.
Wolfgang Brandner & **Hervé Bouy**, IAU Symposium, Vol. 211 , 2002, E. L. Martín, p. 241
- ▷ HST OBSERVATIONS OF CANDIDATES AND BONA-FIDE BINARY BROWN DWARFS.
Bouy et al., IAU Symposium, Vol. 211 , 2002, E.L. Martín, p. 245