

GUILLERMO A. BLANC  
*Curriculum Vitae*

**Office Address**

University of Texas at Austin  
Department of Astronomy  
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**Personal**

Born: 17 February 1983  
Citizenship: Chile

**Education**

UNIVERSITY OF TEXAS AT AUSTIN Sep. 2006 – Present  
Austin TX, USA  
Ph.D. in Astronomy, expected Spring 2011  
Dissertation: “Star Formation at Low and High Redshift: from Star-forming Regions in Nearby Galaxies to Lyman Alpha Emitters at  $z \sim 3$ ”  
Thesis Advisor: Karl Gebhardt

UNIVERSIDAD DE CHILE Mar. 2005 – Aug. 2006  
Santiago, Chile  
M.S. in Astronomy  
Thesis: “MUSYC Wide NIR Survey: Properties of K-Band Selected Galaxies at  $z \sim 2$ ”  
Thesis Advisor: Paulina Lira

UNIVERSIDAD DE CHILE Mar. 2001 – Dec. 2004  
Santiago, Chile  
B.S. in Astronomy, with Honors

**Honors,  
Awards and  
Grants**

Fred Goetting Memorial Endowed Presidential Scholarship: \$5,000 2009-2010

Homer Lindsey Bruce Endowed Fellowship, University of Texas: \$26,635 2009-2010

Professional Development Award, University of Texas: \$900 2009

Sigma Xi Grant in Aid of Research: \$5,000 2009  
“The VIRUS-P Exploration of Nearby Galaxies (VENGA)”

Frank and Susan Bash Director’s Chair Endowment Fund: \$3,100 2009  
“The VIRUS-P Exploration of Nearby Galaxies (VENGA)”

Board of Visitors Graduate Student Second Year Research Defense Award: \$500 2008

FONDAP Centro de Astrofísica M.S. Fellowship: \$4,200 2005-2006

<b>Research Experience</b>	GRADUATE RESEARCH ASSISTANT, U. OF TEXAS AT AUSTIN Supervisor: Karl Gebhardt	Sep. 2006 – Present
	GRADUATE RESEARCH ASSISTANT, UNIVERSIDAD DE CHILE Supervisor: Paulina Lira and Luis Felipe Barrientos	Mar. 2005 – Aug. 2006
	UNDERGRADUATE RESEARCH ASSISTANT, UNIVERSIDAD DE CHILE Supervisor: Eric Gawiser	Jan 2004 – Dec 2004
<b>Invited Talks</b>	VIRUS-P SURVEY FOR LAE AT $2 < z < 4$ : PRELIMINARY RESULTS OPINAS Seminar, Max Planck Institute for Extraterrestrial Physics, Garching, Germany, June 2008.	
<b>Contributed Talks</b>	LYMAN ALPHA EMITTERS IN HETDEX “HETDEX Science Workshop” University of Texas at Austin, Austin, USA, February 2009	
	VIRUS-P SURVEY FOR LYMAN-ALPHA EMITTERS AT $2 < z < 4$ “Understanding Lyman-alpha Emitters” Conference, Max Planck Institute for Astronomy, Heidelberg, Germany, October 2008	
	VIRUS-P SURVEY FOR LYMAN-ALPHA EMITTERS AT $2 < z < 4$ “Gas and Stars in Galaxies - A Multi-Wavelength 3D Perspective” Conference, European Southern Observatory, Garching, Germany, June 2008	
<b>Contributed Posters</b>	THE SPATIALLY RESOLVED STAR FORMATION LAW: FIRST RESULTS FROM THE VIRUS-P EXPLORATION OF NEARBY GALAXIES (VENGA) <b>Blanc, G.A.</b> ; Heiderman, A.; Gebhardt K.; Evans N.J.; Adams, J. Fourth North American ALMA Science Center Conference: Assembly, Gas Content and Star Formation History of Galaxies, Charlottesville, VA, USA, September 2009	
	THE STAR FORMATION LAW FROM INTEGRAL FIELD SPECTROSCOPY <b>Blanc, G.A.</b> ; Heiderman, A.; Gebhardt K.; Evans N.J.; Adams, J. SFR@50 Conference, Sarteano, Italy, July 2009	
	VIRUS-P SURVEY FOR LYMAN-ALPHA EMITTERS AT $2 < z < 4$ <b>Blanc, G. A.</b> ; Adams, J.; Gebhardt, K.; Hill, G.; MacQueen, P.; Drory, N.; Koehler, R.; Murphy, J.; Fry, A.; HETDEX Collaboration American Astronomical Society, Meeting 211, Austin, TX, USA, January 2008	
<b>Teaching and Outreach</b>	UT ASTRONOMY STUDENT ASSOCIATION, UNIVERSITY OF TEXAS Tutored educational observing runs for undergraduates at McDonald Observatory.	May 2007, May 2008
	IRAF TUTORING FOR REU STUDENTS, UNIVERSIDAD DE CHILE Tutored REU students at the National Astronomical Observatory in the use of IRAF.	January 2006
	TEACHING ASSISTANT, UNIVERSIDAD DE CHILE Led discussion section and design homework and exam problems for “Galaxy Astrophysics” Class	Fall, 2005
	TEACHING ASSISTANT, UNIVERSIDAD DE CHILE Led discussion section for “General Astronomy” Class	Spring, 2005
<b>Professional Public Service</b>	Member of the LOC for the “Galaxy Evolution: Emerging Insights and Future Challenges” Conference, Austin, TX	2008
	Editor of ASPCS Proceedings for the “Galaxy Evolution: Emerging Insights and Future Challenges” Conference	2009

- Schools** ESO LATIN AMERICAN SUMMER SCHOOL  
Summer, 2005  
Santiago, Chile
- Observing Experience** Optical Integral Field Spectroscopy with VIRUS-P at the 9.2m Hobby Eberly Telescope, McDonald Observatory, USA.
- Optical Integral Field Spectroscopy with VIRUS-P at the 2.7m Harlan J. Smith Telescope, McDonald Observatory, USA.
- Near-infrared imaging with the ISPI camera at the 4m Blanco Telescope, Cerro Tololo Interamerican Observatory CHILE.
- Multi-Object optical spectroscopy with LDSS-3, at the 6.5m Magellan Clay Telescope, Las Campanas Observatory CHILE.
- Optical spectroscopy with WFCCD, at the 100" du Pont Telescope, Las Campanas Observatory CHILE.
- Multi object optical spectroscopy with IMACS, at the 6.5m Magellan Baade Telescope, Las Campanas Observatory CHILE.
- Optical imaging with the MOSAIC II camera at the 4m Blanco Telescope, Cerro Tololo Interamerican Observatory CHILE.
- References** PROFESSOR KARL GEBHARDT  
The University of Texas at Austin, Department of Astronomy  
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(512) 471-1473, gebhardt@astro.as.utexas.edu
- PROFESSOR NEAL J. EVANS II  
The University of Texas at Austin, Department of Astronomy  
Austin TX 78712-0259  
(512) 471-3302, nje@astro.as.utexas.edu
- PROFESSOR ERIC GAWISER  
Rutgers University, Department of Physics and Astronomy  
Piscataway, NJ 08854  
(732) 445-2733, gawiser@physics.rutgers.edu
- PROFESSOR PAULINA LIRA  
Universidad de Chile, Departamento de Astronomia  
Santiago, Chile  
(56-2) 977-1138, plira@das.uchile.cl

**Refereed  
Publications**

LYMAN-ALPHA-EMITTING GALAXIES AT  $z = 2.1$  IN ECDF-S: BUILDING BLOCKS OF TYPICAL PRESENT-DAY GALAXIES?

Guaita, L.; Gawiser, E.; Padilla, N.; Francke, H.; Bond, N. A.; Gronwall, C.; Ciardullo, R.; Feldmeier, J. J.; Sinawa, S.; **Blanc, G. A.**; Virani, S. *Submitted to The Astrophysical Journal*, arXiv:0910.2244

THE SPATIALLY RESOLVED STAR FORMATION LAW FROM INTEGRAL FIELD SPECTROSCOPY: VIRUS-P OBSERVATIONS OF NGC 5194

**Guillermo A. Blanc**, Amanda Heiderman, Karl Gebhardt, Neal J. Evans II, Joshua Adams *The Astrophysical Journal*, 704:842-862

A PUBLIC, K-SELECTED, OPTICAL-TO-NEAR-INFRARED CATALOG OF THE EXTENDED CHANDRA DEEP FIELD SOUTH (ECDFS) FROM THE MULTIWAVELENGTH SURVEY BY YALE-CHILE (MUSYC)

Taylor, Edward N.; Franx, Marijn; van Dokkum, Pieter G.; Quadri, Ryan F.; Gawiser, Eric; Bell, Eric F.; Barrientos, L Felipe; **Blanc, Guillermo A.**; Castander, Francisco J.; Damen, Maaik; Gonzalez-Perez, Violeta; Hall, Patrick B.; Herrera, David; Hildebrandt, Hendrik; Kriek, Mariska; Labbø-Affiiiff, Ivo; Lira, Paulina; Maza, Josffiiiff; Rudnick, Gregory; Treister, Ezequiel; Urry, C Megan; Willis, Jon P.; Wuyts, Stijn, *The Astrophysical Journal Supplements*, 183:295-319

OPTICAL SPECTROSCOPY OF X-RAY SOURCES IN THE EXTENDED CHANDRA DEEP FIELD SOUTH  
Treister, E.; Virani, S.; Gawiser, E.; Urry, C. M.; Lira, P.; Francke, H.; **Blanc, G. A.**; Cardamone, C. N.; Damen, M.; Taylor, E. N.; Schawinski, K. 2009, *The Astrophysical Journal*, 693:1713-1727

THE MULTIWAVELENGTH SURVEY BY YALE-CHILE (MUSYC): WIDE K-BAND IMAGING, PHOTOMETRIC CATALOGS, CLUSTERING, AND PHYSICAL PROPERTIES OF GALAXIES AT  $z \sim 2$

**Blanc, Guillermo A.**; Lira, Paulina; Barrientos, L. Felipe; Aguirre, Paula; Francke, Harold; Taylor, Edward N.; Quadri, Ryan; Marchesini, Danilo; Infante, Leopoldo; Gawiser, Eric; Hall, Patrick B.; Willis, Jon P.; Herrera, David; Maza, Jose 2008, *The Astrophysical Journal*, 681:1099-1115

LY $\alpha$ -EMITTING GALAXIES AT  $z = 3.1$ : L\* PROGENITORS EXPERIENCING RAPID STAR FORMATION

Gawiser, Eric; Francke, Harold; Lai, Kamson; Schawinski, Kevin; Gronwall, Caryl; Ciardullo, Robin; Quadri, Ryan; Orsi, Alvaro; Barrientos, L. Felipe; **Blanc, Guillermo A.**; Fazio, Giovanni; Feldmeier, John J.; Huang, Jia-sheng; Infante, Leopoldo; Lira, Paulina; Padilla, Nelson; Taylor, Edward N.; Treister, Ezequiel; Urry, C. Megan; van Dokkum, Pieter G.; Virani, Shanil N. 2007, *The Astrophysical Journal*, 671:278-284

LY $\alpha$  EMISSION-LINE GALAXIES AT  $z = 3.1$  IN THE EXTENDED CHANDRA DEEP FIELD-SOUTH  
Gronwall, Caryl; Ciardullo, Robin; Hickey, Thomas; Gawiser, Eric; Feldmeier, John J.; van Dokkum, Pieter G.; Urry, C. Megan; Herrera, David; Lehmer, Bret D.; Infante, Leopoldo; Orsi, Alvaro; Marchesini, Danilo; **Blanc, Guillermo A.**; Francke, Harold; Lira, Paulina; Treister, Ezequiel 2007, *The Astrophysical Journal*, 667:79-91

THE MULTIWAVELENGTH SURVEY BY YALE-CHILE (MUSYC): DEEP NEAR-INFRARED IMAGING AND THE SELECTION OF DISTANT GALAXIES

Quadri, Ryan; Marchesini, Danilo; van Dokkum, Pieter; Gawiser, Eric; Franx, Marijn; Lira, Paulina; Rudnick, Gregory; Urry, C. Megan; Maza, JoseNi; Kriek, Mariska; Barrientos, L. Felipe; **Blanc, Guillermo A.**; Castander, Francisco J.; Christlein, Daniel; Coppi, Paolo S.; Hall, Patrick B.; Herrera, David; Infante, Leopoldo; Taylor, Edward N.; Treister, Ezequiel; Willis, Jon P. 2007, *The Astronomical Journal*, 134:1103-1117

THE PHYSICAL NATURE OF LY $\alpha$ -EMITTING GALAXIES AT  $z=3.1$

Gawiser, Eric; van Dokkum, Pieter G.; Gronwall, Caryl; Ciardullo, Robin; **Blanc, Guillermo A.**; Castander, Francisco J.; Feldmeier, John; Francke, Harold; Franx, Marijn; Habertzettl, Lutz; Herrera, David; Hickey, Thomas; Infante, Leopoldo; Lira, Paulina; Maza, JoseNi; Quadri, Ryan; Richardson, Alexander; Schawinski, Kevin; Schirmer, Mischa; Taylor, Edward N.; Treister, Ezequiel; Urry, C. Megan; Virani, Shanil N. 2006, *The Astrophysical Journal Letters*, 642:L13-L16.

**Non-Refereed Publications** UNDERSTANDING LY $\alpha$  EMITTERS: NEW METHODS AND SELECTION METHODS  
Daniel Kunth; **Guillermo A. Blanc**; Michael Rauch & Paolo Cassata, 2009, *Workshop summary of the "Understanding Lyman-alpha Emitters" meeting in Heidelberg, Oct. 2008, to be published in New Astronomy Review* arXiv:0904.3335

DESIGN, CONSTRUCTION, AND PERFORMANCE OF VIRUS-P: THE PROTOTYPE OF A HIGHLY REPLICATED INTEGRAL-FIELD SPECTROGRAPH FOR HET  
Gary J. Hill; Phillip J. MacQueen; Michael P. Smith; Joseph R. Tufts; Martin M. Roth; Andreas Kelz; Joshua J. Adams; Niv Drory; Frank Grupp; Stuart I. Barnes; **Guillermo A. Blanc**; Jeremy D. Murphy; Werner Altmann; Gordon L. Wesley; Pedro R. Segura; John M. Good; John A. Booth; Svend-Marian Bauer; Emil Popow; John A. Goertz; Robert D. Edmonston; Christopher P. Wilkinson 2008, *Proceedings of the Society of Photographic Instrumentation Engineers* Vol. 7014, 701470

THE HOBBY-EBERLY TELESCOPE DARK ENERGY EXPERIMENT (HETDEX): DESCRIPTION AND EARLY PILOT SURVEY RESULTS  
Hill, G. J.; Gebhardt, K.; Komatsu, E.; Drory, N.; MacQueen, P. J.; Adams, J.; **Blanc, G. A.**; Koehler, R.; Rafal, M.; Roth, M. M.; Kelz, A.; Gronwall, C.; Ciardullo, R.; Schneider, D. P. 2008, *ASP Conference Series, in press*