



Thorsten Tepper García
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CURRICULUM VITAE

Name: Thorsten Tepper García
Birthday: 17 August 1977
Birthplace: México-City, México
Citizenship: Mexican, German
Marital status: Single

CURRENTLY (since September 2007)

- Post-doctorate at the Institut für Physik und Astronomie, Universität Potsdam, Germany (DFG Fellow through Grant DFG-GZ: Ri 1124/5-1)

EDUCATION

- **Ph.D. in Astrophysics** (within the *Branch of Excellence* of the GGSP; 3 year degree, completed in 2.5 year), July 2007.
Grade: Magna Cum Laude
Thesis title: The Stochastic Intergalactic Attenuation and its Impact on High Redshift Galaxies (see PUBLICATIONS for related papers)
Advisor: Prof. Dr. Uta Fritze-von Alvensleben
- **Master of Sciences in Astrophysics** (2-year degree), Göttingen Graduate School of Physics (GGSP) of the *Georg-August Universität*, Göttingen, Germany, September 2004.
Grade: Excellent
Mayors: Astrophysics (grade A), General Relativity (grade A)
Thesis title: The Influence of Intergalactic Neutral Hydrogen on the Spectra of High-Redshift Galaxies (German)
Advisor: Prof. Dr. Uta Fritze-von Alvensleben
- **Bachelor of Sciences in Physics** (5-year degree), *Universidad de las Américas* (UDLA), Puebla, Mexico, May 2001.
Grade: Summa Cum Laude.
Thesis title: Supersymmetry and the Constants of Motion of a Two-Dimensional Isotropic Harmonic Oscillator (see PUBLICATIONS for related paper)
Advisor: Dr. Gerardo F. Torres del Castillo

PUBLICATIONS (refereed and non-refereed)

- **Supersymmetry and the Constants of Motion of the Two-Dimensional Isotropic Harmonic Oscillator.** Torres del Castillo, G.F., Tepper García, T., 2002, *Rev. Mex. de Física*, 48, 16
- **The Stochastic Effect of Ly α Absorbers on Broadband Luminosities of Galaxies.** Tepper García, T., Fritze-v.A., U., 2005, *Proceedings of the IAU Colloquium No. 199 Probing Galaxies Through Quasar Absorption Lines*, pp. 478-450, Williams, P.R., Shu, C., Ménard, B. eds., Cambridge University Press
- **Voigt Profile Fitting to Quasar Absorption Lines: A Simple Approximation to the Voigt-Hjerting Function.** Tepper García, T., 2006, *MNRAS*, 369, 2025
- **The Stochastic Nature of Attenuation and Its Impact on Photometric Redshifts.** Tepper García, T., Fritze-v.A., U., 2006, *Proceedings of the IAU Symposium No. 235 Galaxy Evolution Across the Hubble Time*, in press, Cambridge University Press, astro-ph/0609358
- **Chemically Consistent Evolutionary Synthesis Modelling of Galaxies.** Fritze-v.A., U., Tepper García, T., 2006, *Proceedings of the IAU Symposium No. 235 Galaxy Evolution Across the Hubble Time*, in press, Cambridge University Press, astro-ph/0610548
- **Stochastic Absorption of the Light of Background Sources due to Intergalactic Neutral Hydrogen I. Testing different line-number evolution models via the cosmic flux decrement.** Tepper-García, T., Fritze, U., 2008, *MNRAS*, 383, 4, 1671
- **Absorption Signatures of Warm-Hot Gas at Low- z : OVI.** Tepper-García, T., Richter, P., Schaye, J., Booth, C.M., Dalla Vecchia, C., Theuns, T., Wiersma, R.P.C., 2011, *MNRAS*, 413, 1, 190
- **Absorption Signatures of Warm-Hot Gas at Low- z : Broad H I Ly α Absorbers.** Tepper-García, T., Richter, P., Schaye, J., Booth, C.M., Dalla Vecchia, C., Theuns, accepted for publication in *MNRAS*

ONGOING PROJECT

Analysis of the physical properties and absorption signatures of the Warm-Hot Intergalactic Medium (WHIM) in Cosmological Simulations within the framework of the Overwhelmingly Large Simulations (OWLS) project lead by Joop Schaye (Sterrewacht Leiden); in collaboration with Philipp Richter (Potsdam), Joop Schaye (Leiden), Craig Booth (Leiden/Chicago), Rob Wiersma (MPA), Claudio Dalla Vecchia (Leiden/MPE), and Tom Theuns (Durham/Antwerpen)

CONFERENCES & ACADEMIC ACTIVITIES (since begin of Ph.D.)

- Participation (**poster**) at the conference *UV Astronomy: HST and Beyond*, June 2012, Kauai, USA
Poster's title: Are we tracing the WHIM or is it just outflows?
- Guest researcher at University of Santa Cruz, California, June 2012 (contact: J. Xavier Prochaska)
- Participation (**invited talk**) at the CosmoComp Workshop *Star Formation and Chemical Enrichment*, 2012, Trieste, Italy
Talk's title: Tracing the WHIM at low redshift
- Participation (**contributed talk**) at the AG 2011 Meeting *Surveys & Simulations: The real and virtual Universe*, 2011, Heidelberg, Germany
Talk's title: In search of warm-hot gas at low redshift
- Participation (**contributed talk**) at the conference *The cosmic odyssey of baryons*, 2011, Marseille, France
Talk's title: BLAs are cool (or the baryon content of warm-hot gas at low redshift)
- Participation (**poster**) at the AG 2010 Meeting *Zooming in: The Cosmos at High Resolution*, 2010, Bonn, Germany
Posters' title: Absorption signatures of warm-hot gas at low redshift: OVI
- Participation (**poster and short talk**) at the *Missing Baryons Conference*, 2009, Sydney, Australia
Contribution's title: Simulated OVI Absorbers as Tracers of the Warm-Hot Inter-galactic Medium
- Participation (**contributed talk**) at the AG 2009 Meeting *Deciphering the Universe through Spectroscopy*, 2009, Potsdam, Germany
Talk's title: The Physical Properties of Low- z OVI Absorbers in the Overwhelmingly Large Simulations
- Participation (**poster**) at the conference *The Chemical Enrichment of the Inter-galactic Medium*, 2009, Lorentz Center, Leiden, The Netherlands
Poster's title: The Physical Properties of Low- z OVI Absorbers in the Overwhelmingly Large Simulations
- Participation at the IMPRS Summer School 2009 *Statistical Inferences from Astrophysical Data* at Heidelberg Universität, 2009, Heidelberg, Germany (Chair: Christian Fendt; Tutors: Bill H. Press, David Hogg)
- Participation at the EURO-VO Aida School 2009, at ESO, 2009, Garching b. München, Germany (Chair: Mark Allen, Paolo Padovani)
- Participation (**poster**, in collaboration with Philipp Richter) at the DFG Meeting 2009, Bad Honnef, Germany
- Participation (**poster and short talk**) at the JENAM 2008 Symposium No. 8 *Deconvolving Galaxy Evolution from High Redshift Surveys*, 2008, Vienna, Austria
Contribution's title: The Effect of Variable IGM Absorption on Photometric Redshifts

- Participation (**poster**) at the XXIV IAP Colloquium *Far Away: Light in the Young Universe at Redshift beyond Three*, 2008, Paris, France
Poster title: The Cosmic Flux Decrement: A Consistent Picture?
- Participation (**contributed talk**) at the IAU Symposium No. 235 *Galaxy Evolution Across the Hubble Time*, 2006, Prague, Czech Republic
Talk title: Chemically Consistent Evolutionary Synthesis modelling of Galaxies
- Participation (**poster**) at the IAU Symposium No. 235 *Galaxy Evolution Across the Hubble Time*, 2006, Prague, Czech Republic
Poster title: The Stochastic Nature of Attenuation and Its Impact on Photometric Redshifts (see § Publications)
- Participation at the XIII IAG-LENAC Advanced School of Astrophysics *Structure Formation in the Universe*, 2006, Foz do Iguaçu, Brasil (Chair: Beatriz Barbuy)
- Participation at the advanced summer school SSP 1177 *Evolution of Galaxies and their Large-Scale Environment*, 2006, Bad Honnef, Germany (Chair: Peter Schneider)
- Participation at the advanced summer school *NOVICOSMO: The Dark and the Luminous Side of the Formation of Structure*, 2005, Novigrad, Croatia, organized by SISSA (Chair: Paolo Salucci)
- Participation (**poster**) at the IAU Colloquium No. 199 *Probing Galaxies Through Quasar Absorption Lines*, 2005, Shanghai, China
Poster title: The Stochastic Effect of Ly α Absorbers on Broadband Luminosities of Galaxies (see § Publications)
- Several talks at the Seminar for Extragalactic Astronomy, Institut für Physik und Astronomie, Potsdam (since 2007)
- Several talks at the Seminar for Research of the Intergalactic Medium, Astrophysikalisches Institut Potsdam (2007-2008)
- Several talks at the Seminar for Extragalactic Astronomy, Institut für Astrophysik, Göttingen (2002-2007)

TEACHING EXPERIENCE

- Lecture *Introduction to Relativistic Astrophysics and Cosmology II*, Universität Potsdam, Summer term 2009
- Lecture *Introduction to Relativistic Astrophysics and Cosmology I*, Universität Potsdam, Winter term 2008
- Teaching assistant for *Experimental Physics II*, Universität Potsdam, Summer term 2010
- Teaching assistant for *Experimental Physics I*, Universität Potsdam, Winter term 2007, 2008, 2009
- Freshman Physics-lab assistant, Georg-August-Universität Göttingen, Winter term 2005, Summer term 2006
- Teaching assistant for *Introduction to Astro- and Geophysics*, Georg-August Universität Göttingen, Summer term 2005

AWARDS & AFFILIATIONS, ETC.

- Member of the German Physical Society (DPG) since 2010
- Reviewer for the *Monthly Notices of the Royal Astronomical Society* (MNRAS)
- Member of the German Astronomical Society (AG) since 2008
- Fellow of the German Research Society (DFG) since 2007
- Lichtenberg-Foundation Scholarship 2004-2005
- M.Sc. finished with Excellence, 2004, *Georg-August Universität*
- Scholarship from the Mexican Council of Science and Technology (CONACYT)
- Medal of Best Student of the School of Sciences 2001, UDLA
- B.Sc. finished with Summa Cum Laude, 2001, UDLA
- Dean's List of Excellence of the School of Sciences 1999-2001, UDLA
- Jenkins Scholarship of Excellence 1996-2001, UDLA

OTHER SKILLS

- Languages: Spanish (native), German (native), English (fluent), Italian (fluent)
- Computational: operating systems (UNIX/LINUX, MAC OS X); programming & scripting (FORTRAN 90, BASH, ...); MIDAS; graphics, text & computing (L^AT_EX, PSTricks, BEAMER, GNUPLOT, XMGRACE, HTML, MATHEMATICA); handling of different format files (e.g. HDF5), and many more

Hobbies

- Running (since ever)
- climbing (since 2004)
- snowboarding (since 2005)
- diving/snorkeling (since 2008)
- other sports (volley, soccer, . . . ; since ever)
- travelling (since ever)