

Nicolas Tejos

Curriculum Vitae

May 9, 2018

Profesor Asociado
Instituto de Física, Facultad de Ciencias
Pontificia Universidad Católica de Valparaíso
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Personal Information

Nationality Chilean
Languages Spanish (native), English (fluent)

Employment

2017–present **Profesor Asociado**
Pontificia Universidad Católica de Valparaíso, Chile

2016–2017 **Postdoctoral Researcher**
Millennium Institute of Astrophysics, Chile
Pontificia Universidad Católica de Chile, Chile

2013–2016 **Postdoctoral Researcher**
University of California, Santa Cruz, CA, USA

Education

2009–2014 **Ph.D. Astrophysics**
Durham University, UK

2006–2009 **M.Sc. Astronomy**
Universidad de Chile, Chile

2002–2005 **B.Sc. Astronomy**
Universidad de Chile, Chile

Scientific Interests

My main research interest is on the relationship between the intergalactic medium (IGM) and galaxies, and its dependence on large-scale environment and cosmic time

- Intergalactic medium
- Large scale structure
- Active galactic nuclei
- Circumgalactic medium
- Galaxy evolution
- Gamma-ray bursts
- IGM-galaxy connection
- Cosmology
- Fast radio bursts

Honors and Awards

2016–2019 **PAI-CONICYT Grant**
Research grant to conduct independent research at any Chilean institution of my choice

2013–2016 **IMPS Fellowship**
Post-doctoral Fellowship to conduct independent research in the areas of intergalactic or interstellar medium at University of California, Santa Cruz

2009–2013 **CONICYT Becas-Chile Scholarship**
CONICYT (Chile) Bicentennial Becas-Chile Scholarship for post-graduate studies abroad

2009 **Academic Excellence**
Honor award for academic excellence during my M.Sc. at University of Chile

2007 **SOCHIAS Travel Grant**
Chilean Astronomical Society (SOCHIAS) grant for traveling to conferences

2006–2009 **FONDAP Tuition Scholarship**
FONDAP (Chile) Tuition Scholarship for post-graduate studies at University of Chile

Research Grants

I have contributed to bring more than USD ~ 797 000 direct research funding as Principal Investigator (PI), and about USD ~ 468 000 as Co-Investigator (Co-I) since the completion of my PhD.

- 2017** Pinpointing the cosmic web between massive galaxy clusters
STScI, **USD 304 459** (ID 15293, PI Tejos)
- 2016** QSAGE: QSO Sightline And Galaxy Evolution
STScI, **USD 399 457** (ID 14594, PI Bielby)
- 2016** The intergalactic medium in the cosmic web
PAI-CONICYT, ~ **USD 140 000** (ID 82140055, PI Tejos)
- 2015** Tracing the CMB Cold Spot supervoid using HI gas clouds
STScI, **USD 68 546** (ID 14275, PI Shanks)
- 2014** The intergalactic medium in the cosmic web
STScI, **USD 108 318** (ID 13924, PI Tejos)
- 2014** Characterizing the cool and warm-hot intergalactic medium in clusters at $z < 0.4$
STScI, **USD 196 071** (ID 13833, PI Tejos)
- 2014** Absorption in the Cosmic Web: Characterizing the Intergalactic Medium in Cosmological Filaments
STScI, **USD 47 830** (ID 13832, PI Tejos)

Selected Successful Proposals

I have also contributed to other successful proposals that were awarded time on telescopes such as Keck, VLT, Gemini, Magellan, Shane, SOAR, du-Pont, and CAHA

- 2018** PI on ‘Gravitational-arc tomography of the $z \sim 1$ circum-galactic medium: resolving the kinematics and enrichment with Magellan/MagE’
Magellan/MagE, Semester 2018A, 1.5 nights (ID CN2018A-101, PI Tejos)
- 2018** PI on ‘Rapid Imaging and Spectroscopic Follow-up of Fast Radio Bursts’
Gemini-S/GMOS, Semester 2018A, ToO 5.0 hrs (ID GS-2018A-Q-205, PI Tejos)
- 2017** PI on ‘Pinpointing the cosmic web between massive galaxy clusters’
HST/COS, Cycle 25, GO 67 orbits (ID 15293, PI Tejos)
- 2017** PI on ‘Rapid Imaging and Spectroscopic Follow-up of Fast Radio Bursts’
Gemini-S/GMOS, Semester 2017B, ToO 20.0 hrs (ID GS-2017B-Q-28, PI Tejos)
- 2017** PI on ‘Hunting for MgII absorbers toward the brightest known gravitational arc’
Magellan/MagE, Semester 2017B, 1 night (ID CN2017B-55, PI Tejos)
- 2017** PI on ‘Rapid Imaging Follow-up of Fast Radio Bursts’
LCOGT/Sinistro, Semester 2017A, ToO 64 hrs (PI Tejos)
- 2017** PI on ‘Rapid Spectroscopic Follow-up of Fast Radio Bursts’
Gemini-S/GMOS, Semester 2017A, ToO 1.6 hrs (ID GS-2017A-Q-3, PI Tejos)
- 2017** PI on ‘The Intergalactic Medium in Intercluster Filaments: A Large Scale Galaxy Mapping’
VLT/VIMOS, Period 99, 18 hrs (ID 099.A-0197, PI Tejos)
- 2016** co-I on ‘QSAGE: QSO Sightline And Galaxy Evolution’
HST/WFC3, Cycle 24, GO 96 orbits (ID 14594, PI Bielby)
- 2015** PI on ‘The Intergalactic Medium in Intercluster Filaments: A Large Scale Galaxy Mapping’
VLT/VIMOS, Period 97, 6.3 hrs (ID 097.A-0560, PI Tejos)
- 2015** co-I on ‘Studying the galaxy-gas connection in the laboratory of the CMB Cold Spot supervoid’
VLT/VIMOS, Period 97, 16 hrs (ID 097.A-0535, PI Shanks)
- 2015** PI on ‘Characterizing the Intergalactic Medium in Cosmological Filaments’
VLT/MUSE, Period 96, 1.4 hrs (ID 096.A-0426, PI Tejos)
- 2015** Co-I on ‘Tracing the CMB Cold Spot supervoid using HI gas clouds’
HST/COS, Cycle 23, GO 15 orbits (ID 14275, PI Shanks)

- 2014** PI on ‘The intergalactic medium in the cosmic web’
HST/COS, Cycle 22, AR (ID 13924, PI Tejos)
- 2014** PI on ‘Characterizing the cool and warm-hot intergalactic medium in clusters at $z < 0.4$ ’
HST/COS, Cycle 22, GO 53 orbits (ID 13833, PI Tejos)
- 2014** PI on ‘Absorption in the Cosmic Web: Characterizing the Intergalactic Medium in Cosmological Filaments’
HST/COS, Cycle 22, GO 4 orbits (ID 13832, PI Tejos)
- 2014** PI on ‘Absorption in the Cosmic Web: Characterizing the Intergalactic Medium in Cosmological Filaments’
VLT/MUSE and **VLT/VIMOS**, Period 94, 1.2 and 9.7 hrs (ID 094.A-0575, PI Tejos)
- 2014** Co-I on ‘Resolving the Small-Scale Structure of the Circum-Galactic Medium’
Keck/LRIS, Semester 2014B, 2 nights (ID U064LA, PI Prochaska)
- 2014** Co-I on ‘Where Accretion Meets Feedback: A Galaxy Redshift Survey in HST/COS Quasar Fields’
Gemini-N/GMOS and **Gemini-S/GMOS**, Semester 2014B, 82.8 hrs (IDs GN-2014B-LP-3 and GS-2014B-LP-4, PI Werk)
- 2014** Co-I on ‘Resolving the Circum-Galactic Medium of $z < 1$ Galaxies’
Keck/DEIMOS, Semester 2014A, 1 night (ID U070D, PI Prochaska)
- 2012** PI on ‘Large Scale Structure in Absorption up to $z \sim 0.4$ ’
HST/COS, Cycle 20, GO 12 orbits (ID 12958, PI Tejos)
- 2012** PI on ‘Gas around Galaxies over the last 7 billion years’
Gemini-S/GMOS, Semester 2012A, 7.8 hrs (ID 2012A-0180, PI Tejos)
- 2012** PI on ‘Gas and Galaxies in the Cosmic Web’
Gemini-S/GMOS, Semester 2012A, 13.9 hrs (ID 2012A-0176, PI Tejos)
- 2011** PI on ‘Gas around Galaxies over the last 7 billion years’
VLT/VIMOS, Period 87, 27.2 hrs (ID 087.A-0857, PI Tejos)
- 2010** Co-I on ‘The Relationship between Gas and Galaxies for $0 < z < 1.2$ ’
HST/COS, Cycle 18, GO 66 orbits (ID 12264, PI Morris)

Observing Experience

My main observational experience is on optical and ultra-violet spectroscopy, including echelle, long-slit, multi-object, integral-field, slit-less, ground-based and space-based spectrographs

HST/COS	Service mode experience using COS on HST 2.5m space-based telescope, since 2011
Keck/DEIMOS	2 nights experience using DEIMOS on Keck-II 10m telescope, since 2014
Keck/LRIS	3 nights experience using LRIS on Keck-I 10m telescope, since 2016
VLT/MUSE	Service mode experience using MUSE on VLT Yepun (UT4) 8.2m telescope, since 2014
VLT/VIMOS	Service mode experience using VIMOS on VLT Melipal (UT3) 8.2m telescope, since 2011
VLT/UVES	2 nights experience using UVES on VLT Kueyen (UT2) 8.2m telescope, since 2008
Gemini/GMOS	Service mode experience using GMOS on Gemini South 8.1m telescope, since 2012
Magellan/MIKE	6 nights experience using MIKE on Magellan Clay 6.5m telescope, since 2006
Magellan/MagE	12 nights experience using MagE on Magellan Clay/Baade 6.5m telescope, since 2015
Magellan/PANIC	1 night experience using PANIC on Magellan Clay 6.5m telescope, since 2008
Magellan/IMACS	1 night experience using IMACS on Magellan Baade 6.5m telescope, since 2008
SOAR/Goodman	2 nights experience using Goodman HTS on SOAR 4m telescope, since 2016
ESO/NTT	3 nights experience using EFOSC2 on NTT 3.6m telescope, since 2017
Shane/Kast	2 nights experience using Kast on Shane 3m telescope, since 2014
du-Pont/B&C	14 nights experience using Boller & Chivens on du-Pont 2.5m telescope, since 2014
LCOGT/Sinistro	Service mode experience using Sinistro cameras on the 1m telescope network of LCOGT, since 2017

Teaching Experience

My main teaching experience is on Physics and Astronomy courses at Instituto de Física, Pontificia Universidad Católica de Valparaíso

2018 Lecturer **Introduction to Astronomy**

at Institute of Astrophysics, Pontificia Universidad Católica de Chile

Jun 2017 Invited Lecture **Extragalactic Astronomy** (Prof: Felipe Barrientos)

Jun 2016 Invited Lecture **Extragalactic Astronomy** (Prof: Felipe Barrientos)

at Astronomy Department, Universidad de Chile

Nov 2017 Invited Lecture **The Intergalactic Medium** (Prof: Sebastián López)

Aug 2014 Invited Lecture **The Intergalactic Medium** (Prof: Sebastián López)

2008 Teaching Assistant **Observational Astronomy** (Prof: Sebastián López)

2007 Teaching Assistant **Cosmology** (Prof: Mario Hamuy)

2007 Teaching Assistant **Radiative Processes** (Prof: Diego Mardones)

at Physics Department, Universidad de Chile

2006 Teaching Assistant **Contemporary Physics** (Prof: Nelson Zamorano)

2006 Teaching Assistant **Physics II (Summer School)** (Prof: Nelson Zamorano)

2005 Teaching Assistant **Introduction to Physics** (Prof: Sergio Rica)

2004 Teaching Assistant **Dynamical Systems** (Prof: Felipe Barra)

Mentoring/Advising Experience

at Institute of Astrophysics, Pontificia Católica Universidad de Chile

2016-2018 Co-advisor of **MSc. student**, Ismael Pessa (w/ F. Barrientos)

2016-2017 Co-advisor of **undergraduate student**, Hector Salas (w/ S. Lopez)

at Astronomy & Astrophysics Department, UC Santa Cruz

2014 Co-advisor of **PhD. student**, Camille Leibler (w/ J.X. Prochaska)

2014 Co-advisor of **undergraduate student**, Christian Millan (w/ J. X. Prochaska)

Computing Experience

OS GNU/Linux, Windows

Programming Python, C/C++, Java, IDL, L^AT_EX, HTML, C-shell, Bash

Develop Co-developer of python astronomy packages: linetools, pyigm, PyMUSE

Astronomy Tools VIPGI, VMMPS, GMMPS, P2PP, VPFIT, EZ, IRAF, MIDAS, Esorex, Gasgano, APT, CALCOS

Plotting Matplotlib (Python), SuperMango, Gnuplot

Service experience

2017-2018 Organizer of the Colloquia *Instituto de Física, Pontificia Universidad Católica de Valparaíso*

2015–2016 Postdoctoral Representative to UCSC Faculty *Astronomy & Astrophysics Department, UC Santa Cruz*

Feb 2016 Member of the SOC/LOC of the First IMPS Winter Workshop 2016 *Big Sur, CA*

2014–2015 Organizer of the IMPS Seminars *Astronomy & Astrophysics Department, UC Santa Cruz*

2011–2013 Co-organizer of the Friday's Lunchtime Astronomy Talks *Physics Department, University of Durham*

2010–2013 Founder and co-organizer of the IGM Journal Club *Physics Department, University of Durham*

Outreach

- Feb 2018** Public talk at the Museo Fonck, *Viña del Mar, Chile*
- Feb 2018** Several press notes (including to 'El Mercurio', 'Las Ultimas Noticias', 'El Mostrador', among others) about our recent publication in the journal *Nature, Chile*
- Jan 2018** Technical support to 'El Mercurio' about the so-called 'Super Luna', *Chile*
- Nov 2017** Talk given to primary school students visiting PUCV
- Nov 2017** Talk at Escuela 10 Angelmó, *Puerto Montt, Chile*
- Nov 2017** Public talk at the 'V Feria Científica' Liceo Bicentenario Ancud, *Ancud, Chile*
- Oct 2017** Talk given to high school students participating on the 2017 Physics Olympiad at PUCV
- Oct 2017** Interview given to 'El Mercurio de Valparaíso' (Chilean newspaper) about a Hubble Space Telescope (HST) project for studying the intergalactic medium *Valparaíso, Chile*
- May 2017** Contribution to the outreach section 'our research' in the Millennium Institute of Astrophysics website (<http://www.astrofiscamas.cl/en/nuestrainvestigacion/>)
- Apr 2017** Public talk at Universidad Católica del Norte, *Antofagasta, Chile*
- Jan 2017** Demonstrator at the Summer Camping organized by *Fundación Mundo Ideal, Rengo, Chile*
- Oct 2016** Demonstrator at the *X Fiesta de la Ciencia Explora 2016, Santiago, Chile*
- Oct 2016** Invited referee for scientific projects at the *Congreso Regional Explora RM 2016, Santiago, Chile*
- May 2016** Contribution to editing the online book *Astronomía para todos* by the Millennium Institute of Astrophysics (<http://www.astrofiscamas.cl/astronomiaparatodos>)
- Nov 2015** Invited talk at the Kudela Biological and Satellite Oceanography Laboratory *Santa Cruz, CA*
- Aug 2014** Interview given to 'La Tercera' (Chilean newspaper) about three Hubble Space Telescope (HST) proposals to study the intergalactic medium *Santiago, Chile*
- 2011–2012** Demonstrator at the *Cosmic Origins Exhibition* presented by the Institute of Computational Cosmology at the Celebrating Science Festival *Durham, UK*
- 2006–2009** Demonstrator for guided visits to the National Astronomical Observatory *Santiago, Chile*
- 2004** Member of the Radioastronomical Implementation Group *Department of Electrical Engineering, University of Chile*

Conferences, Workshops and Seminars

Talk Contributions

- Mar 2018** Talk at the A. M. Wolfe Symposium in Astrophysics 2018 *Big Sur, CA*
- Jan 2018** Talk at the CosmoAndes 2018 Conference *Santiago, Chile*
- Sep 2017** Talk at the Gemini Users Meeting 2017 *La Serena, Chile*
- Jun 2017** Flash Talk at the 'What Matter(s) Around Galaxies' Conference *Durham, UK*
- Abr 2017** Seminar at Universidad Católica del Norte (UCN) *Antofagasta, Chile*
- Mar 2017** Seminar at the Pontifical Catholic University of Valparaíso *Curauma, Chile*
- Jan 2017** Talk at the 'XIV Chilean Astronomical Society (SOCHIAS) Annual Meeting' *Maitencillo, Chile*
- Dec 2016** Talk at the 'III MAS Workshop' *Viña del Mar, Chile*
- Dec 2016** Talk at the 'Towards Science in Chile with LSST 2016' *Viña del Mar, Chile*
- Aug 2016** Seminar at University of Concepción *Concepción, Chile*
- Jun 2016** Seminar at University of Chile *Santiago, Chile*
- Mar 2016** Talk at the SnowPAC 2016 Conference *Snowbird, UT*
- Feb 2016** Talk at the First IMPS Winter Workshop 2016 *Big Sur, CA*
- Jan 2016** Seminar at the University of Notre Dame *Notre Dame, IL*
- Jul 2015** Talk at the 'X Marseille International Cosmology Conference - Drifting through the Cosmic Web' *Aix-en-Provence, France*
- Jun 2015** Talk at the 'IGM@50' *Abbazia di Spineto, Italy*
- May 2015** CosmoClub Talk at University of California, Santa Cruz *Santa Cruz, CA*
- Apr 2015** Seminar at University of California, Santa Barbara *Santa Barbara, CA*
- Apr 2015** Tea Talk at the California Institute of Technology (Caltech) *Pasadena, CA*
- Apr 2015** Seminar at University of California, San Diego *San Diego, CA*

- Feb 2015** INPA Seminar at the Lawrence Berkeley National Laboratory *Berkeley, CA*
Dec 2014 Talk at the ‘First Chilean Astronomy Web Workshop (CHAW)’ *Santiago, Chile*
Aug 2014 Seminar at Diego Portales University *Santiago, Chile*
Aug 2014 Seminar at Pontifical Catholic University of Chile *Santiago, Chile*
Aug 2014 Seminar at ESO *Santiago, Chile*
Jul 2014 Seminar at University of Valparaíso *Valparaíso, Chile*
Jun 2014 Talk at ‘The Zeldovich Universe: Genesis and Growth of the Cosmic Web’ *Tallinn, Estonia*
Jun 2014 Talk at ‘Intergalactic Matters’ *Heidelberg, Germany*
Apr 2014 Seminar at Stanford University *Stanford, CA*
Mar 2014 Seminar at Subaru Telescope *Hilo, HI*
Nov 2013 FLASH Talk at University of California *Santa Cruz, CA*
Oct 2013 IMPS Talk at University of California *Santa Cruz, CA*
Sep 2013 Seminar at University of Chile *Santiago, Chile*
Jul 2013 Seminar at the Leibniz Institute for Astrophysics *Potsdam, Germany*
Jun 2013 Talk at the ‘Intergalactic Interactions: A Higgs Centre Workshop on the IGM’ *Edinburgh, UK*
Jun 2013 Friday Lunchtime Talk *Durham, UK*
Dec 2012 Talk at ‘Galaxies in absorption’ *IUCAA, Pune, India*
Nov 2012 Seminar at the Max Planck Institute for Astronomy *Heidelberg, Germany*
Oct 2011 Friday Lunchtime Talk *Durham, UK*
Jun 2011 Talk at the ‘VIII Marseille International Cosmology Conference - The Cosmic Odyssey of Baryons’ *Marseille, France*
Oct 2009 Friday Lunchtime Talk *Durham, UK*
Dec 2007 Talk at the ‘VI Chilean Astronomical Society (SOCHIAS) Annual Meeting’ *Valparaíso, Chile*
Oct 2007 Talk at the ‘XII Latin American Regional IAU Meeting’ *Isla Margarita, Venezuela*
Dec 2006 Talk at the ‘V Chilean Astronomical Society (SOCHIAS) Annual Meeting’ *La Serena, Chile*

References

These persons are familiar with my professional qualifications and my personality

Prof. J. Xavier Prochaska
 Department of Astronomy and Astrophysics
 University of California, Santa Cruz
 Santa Cruz, California, USA
 ☎ +1 831 459 2135
 ✉ xavier@ucolick.org

Prof. Simon L. Morris
 Department of Physics, Durham University
 South Road, DH1 3LE
 Durham, UK
 ☎ +44 (0) 191 33 43611
 ✉ simon.morris@dur.ac.uk

Prof. Sebastián López
 Department of Astronomy, University of Chile
 Camino El Observatorio 1515, Las Condes
 Casilla 36-D, Santiago, Chile
 ☎ +56 (02) 9771135
 ✉ slopez@das.uchile.cl

Publications

Refereed

22 papers published in refereed journals (6 as first author); *h-index* 12

*Advised students

- 2018** Pessa*, I.; **Tejos, N.**; Barrientos, L. F. Werk, J.; Bielby, R.; Padilla, N.; Morris, S. L.; Prochaska, J. X.; Lopez, S.; Hummels, C. *A VLT/MUSE galaxy survey towards QSO Q1410: looking for a WHIM traced by BLAs in inter-cluster filaments* **2018, MNRAS, 477, 2361-2653**

- 2018** Lopez, S.; **Tejos, N.**; Ledoux, C.; Barrientos, L. F.; Sharon, K.; Rigby, J. R.; Gladders, M. D.; Bayliss, M. B.; Pessa, I., *A clumpy and anisotropic galaxy halo at $z = 1$ from gravitational-arc tomography* **2018, Nature, 554, 493**
- 2018** **Tejos, N.**; Rodríguez-Puebla, A.; Primack, J. R. *Stochastic Order Redshift Technique (SORT): a simple, efficient and robust method to improve cosmological redshift measurements* **2018, MNRAS, 473, 366-379**
- 2017** Katsianis, A.; Blanc, G.; Lagos, C. P.; **Tejos, N.**; Bower, R. G.; Alavi, A.; Gonzalez, V.; Theuns, T.; Schaller, M.; Lopez, S. *The evolution of the star formation rate function in the EAGLE simulations: A comparison with UV, IR and $H\alpha$ observations from $z \sim 8$ to $z \sim 0$* **2017, MNRAS, 472, 919**
- 2017** Mathur, S.; et al. (including **Tejos, N.**) *Space Telescope and Optical Reverberation Mapping Project. VII. X-Ray Spectroscopy of NGC 5548 with Swift and Chandra* **2017, ApJ, 846, 55**
- 2017** Prochaska, J. X.; Werk, J. K.; Worseck, G.; Tripp, T. M.; Tumlinson, J.; Burchett, J. N.; Fox, A. J.; Fumagalli, M.; Lehner, N.; Peeples, M. S.; **Tejos, N.** *The COS-Halos Survey: Metallicities in the Low-Redshift Circumgalactic Medium* **2017, ApJ, 837, 169**
- 2017** Pei, L.; et al. (including **Tejos, N.**) *Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548* **2017 ApJ, 837, 131**
- 2017** Bielby, R.; Crighton, N. H. M.; Fumagalli, M.; Morris, S. L.; Stott, J. P.; **Tejos, N.**; Cantalupo, S. *Probing the intra-group medium of a $z = 0.28$ galaxy group* **2017 MNRAS, 468, 137**
- 2016** Cai, Z.; Fan, X.; Peirani, S.; Frue, B.; McGreer, I.; Prochaska, J. X.; Lau, M. W.; **Tejos, N.**; Ho, S.; Schneider, D. P. *Mapping the Most Massive Overdensity Through Hydrogen (MAMMOTH) I: Methodology* **2016 ApJ, 833, 135**
- 2016** Finn, C. W.; Morris, S. L.; **Tejos, N.**; Crighton, N. H. M.; Perry, R.; Fumagalli, M.; Beilby, R.; Theuns, T.; Schaye, J.; Shanks, T.; Liske, J.; Gunawardhana, M. L. P.; Bartle, S. *On the connection between the metal-enriched intergalactic medium and galaxies: an OVI-galaxy cross-correlation study at $z < 1$* **2016 MNRAS, 460, 590-616**
- 2016** Monroe, T.; Prochaska, J. X.; **Tejos, N.**; Worseck, G.; Hennawi, J. F.; Schmidt, T.; Tumlinson, J.; Shen, Y. *The UV-bright Quasar Survey (UVQS): DRI* **2016 AJ, 152, 25**
- 2016** Margon, B.; Prochaska, J. X.; **Tejos, N.**; Monroe, T. *The bright symbiotic Mira EF Aquilae* **2016, PASP, 128:024201**
- 2016** **Tejos, N.**; Prochaska, J. X.; Crighton, N. H. M.; Morris, S. L.; Werk, J. K.; Theuns, T.; Padilla, N.; Bielby, R. M.; Finn, C. W. *Towards the statistical detection of the warm-hot intergalactic medium in inter-cluster filaments of the cosmic web* **2016, MNRAS, 455, 2662-2697**
- 2014** Werk, J. K.; Prochaska, J. X.; Tumlinson, J.; Peeples, M. S.; Tripp, T. M.; Fox, A. J.; Lehner, N.; Thom, C.; O'Meara, J. M.; Ford, A. B.; Bordoloi, R.; Katz, N.; **Tejos, N.**; Oppenheimer, B. D.; Davé, R.; Weinberg, D. H. *The COS-Halos Survey: Physical conditions and baryonic mass in the low-redshift circumgalactic medium* **2014, ApJ, 792, 8-29**
- 2014** Finn, C. W.; Morris, S. L.; Crighton, N. H. M.; Hamann, F.; Done, C.; Theuns, T.; Fumagalli, M.; **Tejos, N.**; Worseck, G. *A compact, metal-rich, kpc-scale outflow in FBQS J0209-0438: Detailed diagnostics from HST/COS extreme UV observations* **2014, MNRAS, 440, 3317-3340**
- 2014** **Tejos, N.**; Morris, S. L.; Finn, C. W.; Crighton, N. H. M.; Bechtold, J.; Jannuzi, B. T.; Schaye, J.; Theuns, T.; Altay, G.; Le Fèvre, O.; Ryan-Weber, E.; Davé, R. *On the connection between the intergalactic medium and galaxies: The HI-galaxy cross-correlation at $z < 1$* **2014, MNRAS, 437, 2017-2075**
- 2013** Crighton, N. H. M.; Bechtold, J.; Carswell, R. F.; Dave, R.; Foltz, C. B.; Jannuzi, B. T.; Morris, S. L.; O'Meara, J. M.; Prochaska, J. X.; Schaye, J.; **Tejos, N.** *A high molecular fraction in a sub-damped absorber at $z = 0.56$* **2013, MNRAS, 433, 178-193**
- 2012** **Tejos, N.**; Morris, S. L.; Crighton, N. H. M.; Theuns, T.; Altay, G.; Finn, C. W. *Large Scale Structure in Absorption: Gas within and around Galaxy Voids* **2012, MNRAS, 425, 245-260**

- 2009** Tejos, N.; López, S.; Prochaska, J. X.; Bloom, J. S.; Chen, H.-W.; Dessauges-Zavadsky, M.; Mauerreira, M. J. *Casting light on the ‘anomalous’ statistics of Mg II absorbers toward Gamma-Ray Burst afterglows: the incidence of weak systems* **2009, ApJ, 706, 1309-1315**
- 2009** Padilla, N.; Lacerna, I.; López, S.; Barrientos, L. F.; Lira, P.; Andrews, H.; Tejos, N. *Galaxy clusters in the line of sight to background quasars - II. Environmental effects on the sizes of baryonic halo sizes* **2009, MNRAS, 395, 1135-1145**
- 2008** López, S.; Barrientos, L. F.; Lira, P.; Padilla, N.; Gilbank, D. G.; Gladders, M. D.; Maza, J.; Tejos, N.; Vidal, M.; Yee, H. K. C. *Galaxy Clusters in the Line of Sight to Background Quasars. I. Survey Design and Incidence of Mg II Absorbers at Cluster Redshifts* **2008, ApJ, 679, 1144-1161**
- 2007** Tejos, N.; López, S.; Prochaska, J. X.; Chen, H.-W.; Dessauges-Zavadsky, M. *On the Incidence of C IV Absorbers Along the Sight Lines to Gamma-Ray Bursts* **2007, ApJ, 671, 622-627**

Proceedings

3 proceedings papers with editorial committee

- 2018** Pessa*, I.; Tejos, N.; Moya, C. *PyMUSE: a Python package for VLT/MUSE data* **2018, ADASS XXVII proceedings**
- 2016** Tejos, N. *The intergalactic medium in the cosmic web* **2016, IAUS, 308, 364**
- 2009** Tejos, N.; López, S.; Prochaska, J. X.; Chen, H.-W.; Dessauges-Zavadsky, M. *C IV Absorbers Along the Sightlines to Gamma-Ray Bursts* **2009, RMxAC, 35, 245**