

Vachail Nicolas SALINAS POBLETE

PERSONAL DATA

PLACE AND DATE OF BIRTH: Chile | 25 January 1990
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EDUCATION

- OCTOBER 2017 PhD in Astronomy, **Leiden Universiteit**, Leiden, The Netherlands
(EXPECTED) Thesis : *The link between volatiles and their icy reservoirs in protoplanetary disks (TBD)* | Advisor: Michiel HOGERHEIJDE Promotor: Ewine van Dishoeck HOGERHEIJDE
- OCTOBER 2013 M Sc. in Astronomy, **Universidad de Chile**, Santiago de Chile, *with highest distinction*
Thesis : *Point Spread Function Subtraction in Integral Field Spectroscopy* | Advisor: Simon CASASSUS
GPA: 6.4/7.0
- DECEMBER 2011 Bachelor of Science in Astronomy, **Universidad de Chile**, Santiago de Chile, *with distinction*
GPA: 5.1/7.0

WORK EXPERIENCE

- FALL 2015 | Teaching Assistant, Astrobiology, Leiden Universiteit, Leiden, The Netherlands
& FALL 2014 |
- SPRING 2014 | Teaching Assistant, Astrochemistry, Leiden Universiteit, Leiden, The Netherlands
- SPRING 2012 | Teaching Assistant, Modern Physics , Universidad de Chile, Santiago de Chile
This course is a first introduction to special relativity and quantum mechanics.
- FALL 2012 | Teaching Assistant, Astronomy Workshop, Universidad de Chile, Santiago de Chile
FALL 2011 | This course is a first introduction with basic reduction software e.g. (IRAF).
- SPRING 2011 | Research Workshop, Universidad de Chile, Santiago de Chile
Fitting CO¹² Line Profiles Single-Dish observations of APEX towards HD100546 using LIME Code under the supervision of Dr. Simon Casassus

- JANUARY 2011 Summer Internship, Universidad de Chile, Santiago de Chile
Research on Nucleosynthesis, carbon burn in white dwarfs, Supernova Ia, under the supervision of Dr. Francisco Förster.

AWARDS AND GRANTS

- FEBRUARY 2015 Awarded LKBF Grant to assist the 45th Saas-Fee Course From Protoplanetary Disks to Planet Formation, Les Diablerets, Switzerland. (€600)
- DECEMBER 2014 Awarded LKBF Grant to assist the conference: Revolution in Astronomy with ALMA -The 3rd Year, Tokyo, Japan. (€750)

MENTORING

- FALL 2016 Co-supervised Cristine Wilson's Master Research Project: *Multifrequency Submillimeter Continuum Imaging Analysis of the Protoplanetary Disk TW Hya*
- FALL 2015 Co-supervised David Bekker's Master Research Project: *The Radial Structure of the Dust Disk around TW Hydreae*

CONFERENCES AND SCHOOLS

- APRIL 2016 Water in the Universe: from clouds to oceans, ESA/ESTEC, Noordwijk, The Netherlands. (Poster)
- MARCH 2016 Protoplanetary Discussions, Edinburgh, Scotland, UK. (Contributed talk)
- SEPTEMBER 2015 Sixth European Radio Interferometry School (ERIS2015), ESO Garching, Germany.
- FEBRUARY 2015 45th Saas-Fee Course From Protoplanetary Disks to Planet Formation, Les Diablerets, Switzerland.
- DECEMBER 2014 Revolution in Astronomy with ALMA -The 3rd Year, Tokyo, Japan. (Poster)
- OCTOBER 2014 NOVA Fall school, Dwingeloo, The Netherlands.
- JUNE 2014 Summer School on Protoplanetary Disks 2014 (DIANA), Ameland, The Netherlands. (Poster)
- 2013-CURRENT Astrochemistry Seminars, Leiden Observatory, Leiden, The Netherlands. (Weekly Seminars in which I have contributed two talks)
- SEPTEMBER 2012 8th Conference on Formation and Evolution of Planetary Systems, Munich, Germany.

OBSERVING PROPOSALS

AUGUST 2016 ALMA Proposal Cycle 4 2016.1.01399: Locating ammonia in TW Hya's disk via NH₂D. (**PI**, Priority grade A)

APRIL 2014 ALMA Proposal Cycle 2 2013.1.01268: 3D mapping of the CO snow surface in a planet-forming disk. (**Co-I**, Priority grade A)

APRIL 2014 ALMA Proposal Cycle 2 2013.1.01007: First limits on water deuteration in planet-forming disks. (**Co-I**, Priority grade B, not observed.)

APRIL 2014 VLT using SINFONI Programme 093.C-0526: Angular and spectral differential imaging of the largest protoplanetary cavities. (**Co-I**)

PUBLICATIONS

1. **Salinas, V. N.**, M. R. Hogerheijde, E. A. Bergin, L. I. Cleeves, C. Brinch, G. A. Blake, D. C. Lis, G. J. Melnick, O. Panić, J. C. Pearson, L. Kristensen, U. A. Yıldız, and E. F. van Dishoeck. *First detection of gas-phase ammonia in a planet-forming disk. NH₃, N₂H⁺, and H₂O in the disk around TW Hydreae.* *A&A*, 591:A122, June 2016
2. K. Zhang, E. A. Bergin, G. A. Blake, L. I. Cleeves, M. Hogerheijde, **Salinas, V.**, and K. R. Schwarz. *On the Commonality of 10-30 AU Sized Axisymmetric Dust Structures in Protoplanetary Disks.* *ApJL*, 818:L16, February 2016
3. M. R. Hogerheijde, D. Bekkers, P. Pinilla, **Salinas, V. N.**, M. Kama, S. M. Andrews, C. Qi, and D. J. Wilner. *Steepening of the 820 μm continuum surface brightness profile signals dust evolution in TW Hydreae's disk.* *A&A*, 586:A99, February 2016
4. S. et al. Casassus and (including **Salinas, V.**). *CO(6-5) and [C i](2-1) pointed observations of five protoplanetary disks: Warm gas in HD 142527.* *A&A*, 553:A64, May 2013
5. S. et al. Casassus and (including **Salinas, V.**). *Flows of gas through a protoplanetary gap.* *Nature*, 493:191–194, January 2013

LANGUAGES

SPANISH: Mother tongue

ENGLISH: Fluent (TOEFL Test, Reading:30, Listening:28, Speaking:26, Writing:22, TOTAL:106)

DUTCH: Intermediate (Dutch level 4 corresponding to B1 in the European Framework (CERF).)

REFERENCES

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