Curriculum Vitae

Contact information:

Departamento de Matemática y Física Aplicadas, Facultad de Ingeniería, Universidad Católica de la Santísima Concepción, Alonso de Ribera 2850, Concepción, Chile

Employment

2021 -	Assistant Professor Departamento de Matemática y Física Aplicadas, Facultad de Ingeniería, Universidad Católica de la Santísima Concepción, Concepción, Chile
2018 - 2021	Associate Specialist / TESS Scientist University of California Santa Barbra, CA, USA Las Cumbres Observatory, CA, USA
2013 - 2018	Support Astronomer Pontificia Universidad Católica de Chile, Santiago, Chile
2011 - 2014	3-yr. FONDECYT fellowship Pontificia Universidad Católica de Chile, Santiago, Chile
2009 - 2011	PUC Postdoctoral fellow Pontificia Universidad Católica de Chile, Santiago, Chile
2007 - 2008	EARA Early Stage Training Secondment Stay Institut d'Astrophysique de Paris, Paris, France
2005 - 2009	Ph. D. student Instituto de Astrofísica de Canarias, Canary Island, Spain • Title: „Estudio de planetas extrasolares por el método de tránsitos"

Education

2009	Universidad de La Laguna, Spain Doctor en Física/Astrofísica (Ph. D. Physics/Astrophysics)
2005	New Jersey Institute of Technology & Rutgers University, USA M. Sc. Applied Physics
2003	University of Applied Science Kempten, Germany Diplom-Wirtschaftsingenieur (FH)

Scholarships

2005 - 2008	EARA Marie Curie – (EST) doctoral fellowship
	European Association for Research in Astronomy
	Instituto de Astrofísica de Canarias, Spain
2004 - 2005	Fulbright Grant
	Fulbright Commission, Germany
2004 - 2005	Provost Scholarship
	New Jersey Institute of Technology, USA

Publication summary

(As of 2021, May 5 from NASA ADS)

- Number of refereed publications: 132
- Number of total citations: 5790
- h-index: 35
- tori-index: 3.1

Selected refereed publications

A discontinuity in the T_{eff}-radius relation of M-dwarfs
Rabus M., Lachaume R., Jordán A., et al.
Monthly Notices of the Royal Astronomical Society 484, 2674 (2019), **Citations: 19**

HATS-11b AND HATS-12b: Two Transiting Hot Jupiters Orbiting Subsolar Metallicity Stars Selected for the K2 Campaign 7
Rabus M., Jordán A., Hartman J. D., et al.
The Astronomical Journal 152(4):88-101 (2016), **Citations: 17**

A cool starspot or a second transiting planet in the TrES-1 system?
Rabus M., Alonso R., Belmonte J. A., et al.
Astronomy and Astrophysics 494(1) (2009), **Citations: 72**

Transit timing analysis of the exoplanets TrES-1 and TrES-2
Rabus M., Deeg H. J., Alonso R., Belmonte J. A., Almenara J. M.
Astronomy and Astrophysics 508(2) (2009), **Citations: 31**

Towards reliable uncertainties in IR interferometry: the bootstrap for correlated statistical and systematic errors
Lachaume R., **Rabus M.**, Jordán A., et al.
Monthly Notices of the Royal Astronomical Society 484, 2656 (2019), **Citations: 4**

Activities

- Peer-reviews for „Astronomy & Astrophysics" und „Monthly Notices of the Royal Astronomical Society"
- NASA review panels chair and member
- TVS roadmap section editor and chapter author
- LSST commissioning liaison for the TVSSC
- Organization and speaker for the public outreach event „Astronomy on Tap Santa Barbara" and speaker at AoT Deleware
- Speaker at LSST PCW 2019, Tucson
- Speaker at TVS-SMWLV Workshop 2019, Delaware
- Participant LSST TVS Survey Strategy Proposal Preparation Workshop 2018, Lehigh
- Seminars Organizing Committee
  Instituto de Astrofísica de Canarias, Spain, April 2008 – Sept. 2009
- Local Organizing Committee
  ARENA Workshop: "Telescope and instrumentation robotization at Dome C", March 26 – 29 2007, Puerto Santiago, Tenerife, Spain

Languages and Computer skills

Languages: German (native), English (fluent), Spanisch (fluent)

Computer skills: Python (including Jupyter notebooks)   - excellent
                       Github workflow   - advanced
                       Docker container   - intermediate
                       SQL / NoSQL   - intermediate
                       C++   - intermediate
                       Apache Spark   - basic
                       Apache Airflow   - basic