

THOMAS STEINDL

PhD Student at the University of Innsbruck

Combining computational physics with the power of Asteroseismology to unravel mysteries in the early evolution of intermediate mass stars.



CONTACT

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- 📄 NASA/ADS publication list

SKILLS

Programming

Python	●●●●●●●●
LaTeX	●●●●●●●●
git	●●●●●●●●
Fortran	●●●●●●●●
Bash	●●●●●●●●
C	●●●●●●●●
Mathematica	●●●●●●●●
HTML/CSS	●●●●●●●●

Operating Systems

Linux	●●●●●●●●
MacOS	●●●●●●●●
Windows	●●●●●●●●

Software & Tools

Visualisation (e.g. matplotlib)	●●●●●●●●
Data handling/analysis (e.g. numpy, scipy, pandas, ...)	●●●●●●●●

Specific Software & Tools

MESA	●●●●●●●●
GYRE	●●●●●●●●

Languages

German	●●●●●●●●
English	●●●●●●●●
Italian	●●●●●●●●

PERSONAL INTERESTS

Sports

American Football, Football, Cycling, Snooker, Darts, etc.

Reading

Political Literature, Popular Science, Autobiographies, etc

Others

Cooking, Photography, etc.

ABOUT ME

My research focuses on early stellar evolution. I use asteroseismic tools to infer information about young stars and further increase our understanding of stellar structure and evolution.

WORK HISTORY

- 📅 Oct 2019 - Sep 2023
📍 Leopold Franzens University Innsbruck **PhD Student**
Working on different research projects concerning the early evolution of stars and their pulsational properties. This position also involves teaching responsibilities.
- 📅 Feb 2019 - Mar 2019
📍 Leopold Franzens University Innsbruck **Scientific Personnel**
Working on photometric time series data obtained by BRITE satellites.
- 📅 Oct 2018 - Jun 2019
📍 Leopold Franzens University Innsbruck **Scientific Personnel**
Building an ultra low noise high voltage piezo driver intended for use in a photon shaping experiment.
- 📅 Oct 2017 - Jan 2018
📍 Leopold Franzens University Innsbruck **Collegiate Assistant**
Assistant at a physics practical course intended for students in their 3rd semester.

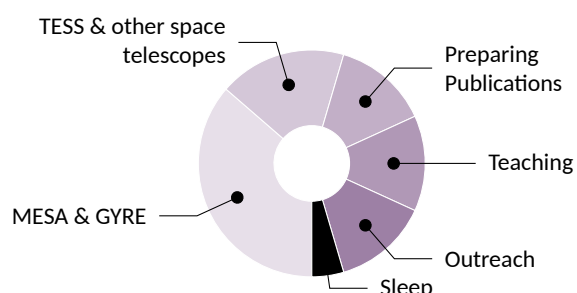
EDUCATION

- 📅 2019 -
📍 Leopold Franzens University Innsbruck **PhD degree**
Supervisor: Konstanze Zwintz
- 📅 2018 - 2019
📍 Leopold Franzens University Innsbruck **Masters degree**
Supervisor: Konstanze Zwintz
Thesis title: The Probing Power of g-modes for Pre-Main Sequence Stars
- 📅 2014 - 2018
📍 Leopold Franzens University Innsbruck **Bachelor degree**
Thesis title: Feynman Diagrams and the Lifetime of Muons
- 📅 2005 - 2013
📍 Georg von Peuerbach Gymnasium Linz **Matura**

GENERAL SKILLS & ATTRIBUTES

- Team Player
- Reliable
- Honest
- Problem Solving
- Punctual

TIME SPENT WITH DURING MY PHD STUDIES




PUBLICATIONS AND TALKS

Submitting author

Tidally perturbed pulsations in the pre-main sequence δ Scuti binary RS Cha


 T. Steindl, K. Zwintz, D. M. Bowman



 2020  Astronomy & Astrophysics, Volume 645, id.A119, 16 pp.

 [ADS](#), [arXiv](#)

Co-author


β Cas: The first δ Scuti star with a dynamo magnetic field



 K. Zwintz, C. Neiner, O. Kochukhov, T. Ryabchikova, A. Pigulski, M. Müllner, T. Steindl, R. Kuschnig, G. Handler, A. F. J. Moffat, H. Pablo, A. Popowicz, G. A. Wade

 2020  Astronomy & Astrophysics, Volume 643, id.A110, 23 pp.

 [ADS](#), [arXiv](#)

Searching for solar-like oscillations in pre-main sequence stars using APOLLO

 M. Müllner, K. Zwintz, E. Corsaro, T. Steindl, I. Potravnov, E. W. Guenther, A. Kniazev, V. Gvaramadze



 2020  accepted for publication in Astronomy & Astrophysics

 [ADS](#), [arXiv](#)

Conference Contributions

Tidally perturbed pulsations in the pre-main sequence δ Scuti binary RS Cha

 T. Steindl, K. Zwintz, D. M. Bowman

 2021  OBA Stars: Variability and Magnetic Fields (STARS-2021)

 [conference](#)


The Age of Zero Age Main Sequence Stars as an Analytic Function of Mass

 T. Steindl, K. Zwintz

 2019  Proceedings of the conference Stars and their Variability Observed from Space, held in Vienna on August 19-23, 2019

 [ADS](#)

Science with BRITE-Constellation at the University of Innsbruck


 K. Zwintz, R. Kuschnig, C. Arnold, F. Brüser, M. J. Dornacher, S. Gössl, A. Ivanov, M. Mayerl, M. Müllner, S. Panny, A. M. Stanciu, T. Steindl, A. Thaler, D. Weißmayer, S. Zieba

 2019  Proceedings of the conference Stars and their Variability Observed from Space, held in Vienna on August 19-23, 2019

 [ADS](#)

Invited Talks


Tidally perturbed pulsations in the pre-main sequence δ Scuti binary RS Cha


 T. Steindl

 2021  Good Vibrations Seminar Series

 [video](#)

Putting Hayashi and Henyey behind: Combining asteroseismology and state of the art pre-main sequence models

 T. Steindl

 2021  Instituto de Astrofísica e Ciências do Espaço, Portugal.

 [ia](#)