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

thomas.steindl@uibk.ac.at
thomas.steindl95@gmx.at
+43 512507 52031
thomassteindl.com

@Steinerkadabra
0000-0002-6713-704X
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, Snookter, 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

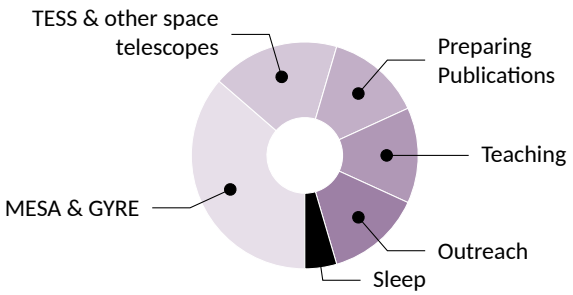
2014 - 2018
Leopold Franzens University Innsbruck — **Bachelor degree**
Thesis title: Feynman Diagrams and the Lifetime of Muons

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

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

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. Weßmayer, S. Zieba

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