

Sebastian Zieba

Curriculum Vitae

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Nationality: Austrian



Education

- 2013 – 2017 **Bachelor Physics**, *Leopold Franzens University*, Innsbruck, Austria.
Thesis: *The Titius Bode law - applied on exoplanetary systems*
Supervisor: Univ.-Prof. Dr. Norbert Przybilla
- 2017 – 2020 **Master Physics**, *Leopold Franzens University*, Innsbruck, Austria.
Thesis: *Time delay analysis of the δ Scuti pulsations in the exoplanet host star β Pictoris based on space and ground-based photometry*
Supervisor: Univ.-Prof. Mag. Dr. Konstanze Zwintz
Co-Supervisor: Associate Professor Dr. M.A. Matthew Kenworthy
- 2020 – now **PhD**, *Max-Planck Institute for Astronomy*, Heidelberg, Germany.
APEX Department
Supervisor: Dr. Laura Kreidberg

First-author Publications

- **Zieba, S.**, Zilinskas, M., Kreidberg, L., et al., arXiv e-prints, arXiv:2203.00370 (2022) [accepted for publication in A&A]
- **Zieba, S.**, Zwintz, K. Kenworthy, M. A. Kennedy, G. M. "Transiting exocomets detected in broadband light by TESS in the β Pictoris system", A&A, 625, L13 (2019)

Co-author Publications (selection)

- Zwintz, K., Reese, D. R., Neiner, C. et al. [including **Zieba, S.**] "Revisiting the pulsational characteristics of the exoplanet host star β Pictoris", A&A 627, A28 (2019)
- Iglesias, D. P., Olofsson, J., Bayo, A., et al. [including **Zieba, S.**] "An unusually large gaseous transit in a debris disc", MNRAS 490, 5218 (2019)
- Rodriguez, J. E.; Vanderburg, A.; **Zieba, S.**, et al. "The First Habitable Zone Earth-Sized Planet From TESS II: *Spitzer* Confirms TOI-700 d", eprint arXiv:2001.00954 (2020), submitted to AAS Journals
- Strøm, P., Bodewits, D., Knight, M., et. al. [including **Zieba, S.**] "Exocomets from a Solar System Perspective", eprint arXiv:2007.09155 (2020), To be published in PASP

Experience

- Feb 2019 – April 2019 Analysing the photometry of the *BRITE nanosatellite constellation* and star spot modelling.

Awards

- 2019 Summer School Alpbach 2019 Award for *Best Crisis Management*
2019 *Student Poster Competition Winner* at TESS Science Conference I
2019 Studienförderungspreis 2019 des Deutschen Freundeskreises der Universitäten in Innsbruck e.V.

Accepted observing proposals (as Co-I)

- 2019 CHEOPS AO-1 PROGRAM: *Hunting for exocomets transiting the young naked-eye star 5 Vulpeculae*.

Attendance at Conferences, Workshops and Summer Schools

- May 2012 Workshop: *Extraterrestrial Life – Beyond our Expectations*, Vienna, Austria
Aug 2018 Summer School: *Summer School “Basics of Astrobiology”*, Vienna, Austria
Aug 2018 Conference: *XXX IAU General Assembly*, Vienna, Austria
May 2019 Workshop: *ExoComets: Understanding the Composition of Planetary Building Blocks*, Leiden, Netherlands
July 2019 Summer school: *Summer School Alpbach 2019, Geophysics from Space using Micro- or Nano-Satellite Constellations*, Alpbach, Austria
July - Aug 2019 Conference: *TESS Science Conference I*, Boston, USA
Aug 2019 Conference: *Stars and their variability, observed from space: Celebrating the 5th anniversary of BRITE-Constellation*, Vienna, Austria
Sep 2019 Workshop: *PLATO ESP workshop*, Warwick, UK
Jan 2020 Conference: *ARIEL: Science, Mission & Community 2020 Conference*, ESA/ESTEC, Noordwijk, Netherlands

Teaching Experience

- May 2018 Substitute Lecturer for Univ.-Prof. Mag. Dr. Paul Scheier
Topic: Introduction to exoplanets
Jan 2019 Substitute Lecturer for Univ.-Prof. Mag. Dr. Konstanze Zwintz
Topic: Introduction to exoplanets
May 2019 Substitute Lecturer for Univ.-Prof. Mag. Dr. Konstanze Zwintz
Topic: Telescopes in Space: Kepler and TESS

Given Talks and Public Outreach

- 2011 Science Day at the *Salzburg University of Education* Stefan Zweig
Talk: Planetology of the Moon and Mars as seen with *Google Maps*
- 2012 Science Day at the *Salzburg University of Education* Stefan Zweig
Talk: How do you find an exoplanet?
- 2013 Science Day at the *Salzburg University of Education* Stefan Zweig
Talk: Exoplanets - The search for the second Earth
- 2013 Astronomical Society of Salzburg
Talk: Exoplanets - Homeworld of Aliens?
- 2019 TESS Science Conference I
Student Poster Competition Winner Talk: Transiting exocomets detected in broadband light by TESS in the β Pictoris system
YouTube Link: <https://youtu.be/KTRbjX1jTuI>

Private information

- Languages
- German (native)
 - English (fluent)
 - Polish (intermediate)
 - Russian (basic)
 - Latin (6 years)
 - Classical Greek (4 years)