

# Curriculum vitae

Tibebu Getachew Ayalew  
Department of Astrophysical Sciences  
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## EDUCATION

- PhD in space physics, University of Oulu, Oulu, Finland, August 2014-November 2019.  
Thesis topic: Spatial-temporal structure and distribution of the solar photospheric magnetic field.
- MSc in space physics, Bahir Dar University, Bahir Dar, Ethiopia, September 2011-July 2013.  
Thesis topic: Imaging the ionosphere in the Ethiopian sector by using biharmonic spline interpolation technique.
- Bachelor's degree in physics (minor mathematics), Jimma University, Jimma, Ethiopia, December 2002-July 2006.

## RESEARCH EXPERIENCE

- November 2020- present                      Full-time postdoctoral research associate  
Department of Astrophysical Sciences  
Princeton University, Princeton, New Jersey
- November 2019- October 2020              Full-time postdoctoral researcher  
Space Physics and Astronomy Research Unit  
University of Oulu, Finland
- August 2014-November 2019                Full-time doctoral researcher  
ReSoLVE Centre of Excellence  
Space climate research unit  
University of Oulu, Finland
- September 2011-June 2013                  Graduate research assistant  
Washera Geospace and Radar Science Laboratory  
Department of physics, Bahir Dar University, Ethiopia

## TEACHING EXPERIENCE

- August 2013-July 2014                      Full-time lecturer of physics  
Department of physics, Aksum University, Ethiopia
- September 2009-August 2011                Full-time graduate assistant  
Department of physics, Aksum University, Ethiopia
- August 2006-August 2009                    Full-time high school physics teacher  
Mengesha Jembere high school, Dangila, Gojjam, Ethiopia

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## REFEREED JOURNAL PUBLICATIONS

- **Getachew**, T., I.I. Virtanen, and K. Mursula, Structure of the photospheric magnetic field during sector crossings of the heliospheric magnetic field, *Solar Phys.*, 292, 174, 2017. [doi.org/10.1007/s11207-017-1198-9](https://doi.org/10.1007/s11207-017-1198-9)
- **Getachew**, T., I.I. Virtanen, and K. Mursula, Asymmetric distribution of weak photospheric magnetic field values, *Astrophys. J.*, 874, 116, 2019. [doi.org/10.3847/1538-4357/ab0749](https://doi.org/10.3847/1538-4357/ab0749)
- **Getachew**, T., I.I. Virtanen, and K. Mursula, A new signal of the solar magnetic cycle: Opposite shifts of weak magnetic field distributions in the two hemispheres, *Geophys. Res. Lett.*, 46, 9327-9333, 2019. [doi: 10.1029/2019GL083339](https://doi.org/10.1029/2019GL083339)
- **Getachew**, T, Spatial-temporal structure and distribution of the solar photospheric magnetic field, PhD Thesis, University of Oulu, 2019. <http://jultika.oulu.fi/files/isbn9789526224367.pdf>
- Mursula, K., T. **Getachew**, and I. I. Virtanen, Spatial-temporal evolution of photospheric weak-field shifts in solar cycles 21-24, *Astron. Astrophys.*, in press, 2020. <https://doi.org/10.1051/0004-6361/201936917>

## CONFERENCES

- December 2019, AGU 2019 fall meeting, San Francisco, California, USA, attendee.
- November 2019, ReSoLVE SAB meeting, Helsinki, Finland, talk.
- July 2018, The 42nd COSPAR Scientific Assembly, Pasadena, California, USA, talk.
- September 2017, The 15th European Solar Physics Meeting, Budapest, Hungary, poster.
- April 2017, EGU General Assembly, Vienna, Austria, poster.
- March 2017, Finnish Physics Days 2017, Helsinki, Finland, poster.
- April 2016, Space Climate Symposium-6, Levi, Finland, poster.
- June 2015, IUGG General Assembly, Prague, Czech Republic, poster.
- May 2015, ReSoLVE 3rd science meeting, Oulu, Finland, talk.

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## RECOGNITION AND AWARDS

- For the successful accomplishment of my PhD thesis, the space climate research unit of the University of Oulu awarded me full grant to attend the AGU 2019 fall meeting.
- My recent solar physics paper entitled structure of the photospheric magnetic field during sector crossings of the heliospheric magnetic field was highlighted as among 10-top most popular papers in Springer Astronomy for 2018.  
[https://www.springer.com/gp/campaigns/highlights-2018/astronomy-2018?utm\\_source=hybris&utm\\_medium=email&utm\\_content=internal&utm\\_campaign=SPSN\\_2\\_i\\_Highlights18&sap-outbound-id=E9EBE44CA999C366E2DA69F215234030E41C3913](https://www.springer.com/gp/campaigns/highlights-2018/astronomy-2018?utm_source=hybris&utm_medium=email&utm_content=internal&utm_campaign=SPSN_2_i_Highlights18&sap-outbound-id=E9EBE44CA999C366E2DA69F215234030E41C3913)
- I was awarded and recognized by the Amhara regional state of Ethiopia in November 2002 for completing the Ethiopian School Leaving Certificate Examination (ESLCE) with great distinction (4.0/4.0).