

Timothy Larson, PhD  
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## Work Experience

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- January 2020 - present      NASA subcontract for global helioseismic analysis
- Fall 2019 & Fall 2020      Adjunct Instructor, Moberly Area Community College
- January 2019 – May 2021    Tutor, Moberly Area Community College
- Sept 2016 – Aug 2017      Postdoctoral Scholar, Stanford University
- Sept 2003 – Aug 2016      Research Assistant, Stanford University
- Fall 2007 – Fall 2009      Resident Observer, Wilcox Solar Observatory, Stanford

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## Education

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- 2016 PhD Physics, Stanford University
- 2014 MS Physics, Stanford University
- 2002 BA Physics, Mathematics & Islamic Studies, Washington University in St. Louis

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## Research Highlights

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- Global Helioseismology - lead developer for globalhds data analysis pipeline for the Helioseismic and Magnetic Imager aboard the Solar Dynamics Observatory
- Sonification of Solar Harmonics (SoSH) Project, 2018 – Present  
- <http://solar-center.stanford.edu/SoSH/>

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## Publications

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- “Global-Mode Analysis of Full-Disk Data from the Michelson Doppler Imager and the Helioseismic and Magnetic Imager”, Larson, T.P. & Schou, J. Sol Phys (2018) 293: 29.  
<https://doi.org/10.1007/s11207-017-1201-5>
- “Improved Helioseismic Analysis of Medium- $l$  Data from the Michelson Doppler Imager”, Larson, T.P. & Schou, J. Sol Phys (2015) 290: 3221.  
<https://doi.org/10.1007/s11207-015-0792-y>
- “Global Effects of Local Sound-Speed Perturbations in the Sun: A Theoretical Study”, Hanasoge, S.M. & Larson, T.P. Sol Phys (2008) 251: 91.  
<https://doi.org/10.1007/s11207-008-9208-6>
- 4th+ author on many more, in role of data analyst.
- The SoSH project was presented at both the 25th International Conference for Auditory Display and the 234th meeting of the American Astronomical Society, both 2019

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## Skills

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- Proficiency in C, Python, IDL and Pure Data
- Familiarity with Matlab and SQL
- Extensive experience communicating physics concepts