

Brian Friesen

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Position

- 2015-present **NERSC NESAP Postdoctoral Fellow**, Lawrence Berkeley National Laboratory
2010-2015 **Graduate Research Assistant**, University of Oklahoma
2009-2010 **Graduate Teaching Assistant**, University of Oklahoma

Education

- 2015 **PhD, Physics**, University of Oklahoma
2009 **BSc, Physics**, Oklahoma Baptist University

Grants, honors and awards

- 2015 **Nielsen Prize** — Department of Physics and Astronomy, University of Oklahoma
2014 **Rodger Doxsey Travel Prize** — American Astronomical Society
2014 **Robberson Travel Grant** — Graduate College, University of Oklahoma
2009 **C. C. Lin Graduate Research Fellowship** — Department of Physics and Astronomy, University of Oklahoma

Publications

- 2014 **Friesen, B.**, et al. “Near-infrared line identification in type Ia supernovae during the transitional phase.” *The Astrophysical Journal*, v. 792, p. 120. DOI: [10.1088/0004-637X/792/2/120](https://doi.org/10.1088/0004-637X/792/2/120)
- 2014 Parrent, J. T., **Friesen, B.**, and Parthasarathy, M. “A Review of Type Ia Supernova Spectra.” *Astrophysics and Space Science*, Feb. issue. DOI: [10.1007/s10509-014-1830-1](https://doi.org/10.1007/s10509-014-1830-1)
- 2012 **Friesen, B.**, et al. “Supernova Resonance-scattering Line Profiles in the Absence of a Photosphere.” *The Astrophysical Journal Supplement*, v. 203 p. 12. DOI: [10.1088/0067-0049/203/1/12](https://doi.org/10.1088/0067-0049/203/1/12)
- 2012 Parrent, J. T., Howell, D. A., **Friesen, B.**, et al. “Analysis of the Early-time Optical Spectra of SN 2011fe in M101.” *The Astrophysical Journal Letters*, v. 752, p. L26. DOI: [10.1088/2041-8205/752/2/L26](https://doi.org/10.1088/2041-8205/752/2/L26)

Talks

- 2014 **“Permitted spectral line features at late times in SN 2011fe?”** — 225th Meeting of the American Astronomical Society – Seattle, WA, USA
“Spectrum synthesis at late times in type Ia supernovae with PHOENIX” — Cook’s Branch Workshop – Cook’s Branch Conservancy, TX, USA

Public codes

- GitHub page: <https://github.com/bcfriesen>

Service

- 2014 – 2015 Founding member and vice president of “Lunar Sooners” student organization for astronomy and general science outreach at OU
2012 – 2015 Frequent host of public star parties across Oklahoma
2010 – 2011 OU Graduate Student Senator

Affiliations

- 2014 – present Referee for *Monthly Notices of the Royal Astronomical Society*
2013 – present American Astronomical Society
2012 – 2015 OU Supercomputing Center for Education and Research
2011 – present Einstein Toolkit Consortium

References

- Edward Baron, Ph.D.
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- Rollin C. Thomas, Ph.D.
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Computational Cosmology Center
Lawrence Berkeley National Laboratory
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- Peter Hauschildt, Ph.D.
Professor of Astronomy
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