

Paul Andrew Boley

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GENERAL INFORMATION

Human male, born February 21, 1984. US citizen.

EDUCATION

UNIVERSITY OF HEIDELBERG: *Dr. Rer. Nat. (magna cum laude) in Astronomy* **2009–2013**
Thesis “High-Resolution Studies of Circumstellar Material around Massive Young Stellar Objects.”

URAL STATE UNIVERSITY: *M. Phys. in Astrophysics* **2007–2009**
Thesis “Spectral Investigations of the S 235 A-B Star-Forming Region at Optical Wavelengths.”

UNIVERSITY OF ARIZONA: *B. Sci. in Astronomy & Physics, Minor in Mathematics* **2002–2006**

EMPLOYMENT

KOUROVKA ASTRONOMICAL OBSERVATORY: *Senior scientific researcher* **2015–Present**

MAX PLANCK INSTITUTE FOR RADIO ASTRONOMY: *Postdoctoral researcher* **2013–2015**

MAX PLANCK INSTITUTE FOR ASTRONOMY: *PhD candidate, postdoctoral researcher* **2009–2013**

INTERNATIONAL DARK-SKY ASSOCIATION: *Programmer* **2009–2013**

KOUROVKA ASTRONOMICAL OBSERVATORY: *Engineer* **2007–2009**

INTERNATIONAL DARK-SKY ASSOCIATION: *Programmer* **2003–2006**

STEWART OBSERVATORY: *Undergraduate research assistant* **2002–2006**

RESEARCH INTERESTS

- Embedded stellar clusters
- H II regions
- Interstellar dust
- Planetary nebulae
- Problems of radiative transfer
- Star formation
- Young stellar objects

REFEREED PUBLICATIONS

- “A Multi-Wavelength Interferometric Study of the Massive Young Stellar Object IRAS 13481-6124.”
Boley P. A., Kraus S., de Wit W.-J., Linz H., van Boekel R., Henning T., Lacour S., Monnier J. D., Stecklum B., Tuthill P.G.
Astronomy & Astrophysics, **586**, A78. 2016.
- “A Keplerian-like Disk Around the Forming O-type Star AFGL 4176.”
Johnston K. G., Robitaille T. R., Beuther H., Linz H., **Boley P.**, Kuiper R., Keto E., Hoare M. G., van Boekel R.
Astrophysical Journal Letters, **813**, L19. 2015.

- “The Impact of Light Source Spectral Power Distribution on Sky Glow.”
Luginbuhl C. B., **Boley P. A.**, Davis D. R.
Journal of Quantitative Spectroscopy and Radiative Transfer, 139, 21. 2014.
- “The VLTI/MIDI Survey of Massive Young Stellar Objects: Sounding the Inner Regions around Intermediate- and High-mass Young Stars using Mid-infrared Interferometry.”
Boley P. A., Linz H., van Boekel R., Henning T., et al.
Astronomy & Astrophysics, 558, A24. 2013.
- “Polycyclic Aromatic Hydrocarbons in Spatially-Resolved Extragalactic Star-Forming Complexes.”
Khrantsova M. S., Wiebe D. S., **Boley P. A.**, Pavlyuchenkov Y. N.
Monthly Notices of the Royal Astronomical Society, 431, 2006. 2013.
- “On the Massive Young Stellar Object AFGL 4176: High-Spatial-Resolution Multi-Wavelength Observations and Modeling.”
Boley P. A., Linz H., van Boekel R., Bouwman J., Henning T., Sobolev A. M.
Astronomy & Astrophysics, 547, A88. 2012.
- “S 235 B Explained: An Accreting Herbig Be Star Surrounded by Reflection Nebulosity.”
Boley P. A., Sobolev A. M., Krushinsky V. V., van Boekel R., Henning T., Moiseev A. V., Yushkin M. V.
Monthly Notices of the Royal Astronomical Society, 399, 778. 2009.
- “A Search for Temperature and Density Variations in NGC 7027 with the Hubble Space Telescope.”
Biegging J. H., **Boley P. A.**, Latter W. B., Tielens A. G. G. M.
Astrophysical Journal, 676, 390. 2008.

CONFERENCES AND PROCEEDINGS

- “The Interplay Between Molecular and Ionized Gas Surrounding the Massive Embedded Star AFGL 4176”
Johnston K. G., Beuther H., Linz H., **Boley P.**, Robitaille T. P., Keto E., Wood K., van Boekel R.
Astrophysics and Space Science Proceedings, 36, 413. 2014.
- “Infrared Interferometry and the Study of Massive Young Stellar Objects.”
Boley P. A.
Physics of Space: Proceedings of the 43rd International Scientific Conference for Students in Kourouka, Russia, 7. Russian language. [arXiv:1402.3412](https://arxiv.org/abs/1402.3412). 2014.
- “The Effects of Lamp Distribution on Sky Glow over Observatories.”
Luginbuhl C. B., **Boley P. A.**, Davis D. R., Duriscoe D. M.
IAU General Assembly XXVIII, SpS 17: Light Pollution. 2012.
- “The European Southern Observatory and VLT Telescopes on Paranal.”
Boley P. A.
Physics of Space: Proceedings of the 41st International Scientific Conference for Students in Kourouka, Russia, 7. Russian language. [arXiv:1202.3310](https://arxiv.org/abs/1202.3310). 2012.
- “Observations and Modeling of the Massive Young Star AFGL 4176: From Large Scales to Small.”
Boley P. A., van Boekel R., Linz H., Bouwman J., Sobolev A. M., Henning T.
MRO Optical Interferometry Workshop. [arXiv:1111.0807](https://arxiv.org/abs/1111.0807). 2011.
- “MIDI Interferometry of Massive YSOs: Updates on the MPIA Program.”
Linz H., Follert R., **Boley P. A.**, van Boekel R., Stecklum B., Leinert C., Henning T.
MRO Optical Interferometry Workshop. [arXiv:1111.0821](https://arxiv.org/abs/1111.0821). 2011.
- “Numerical Modeling of the Massive Young Stellar Object AFGL 4176 Using Interferometric Observations from VLTI/MIDI.”
Boley P. A.
Physics of Space: Proceedings of the 40th International Scientific Conference for Students in Kourouka, Russia, 287. Russian language. 2011.

- “Physical Processes in Regions of Ionized Hydrogen: Theory and Practice.”
Boley P. A.
Physics of Space: Proceedings of the 40th International Scientific Conference for Students in Kourouka, Russia. Accompanying Seminar “Radiative Transfer and Spectra of Objects of the Interstellar Medium,” 348. Russian language. 2011.
- “The Star-forming Region S 235 C.”
Sobolev A. M., **Boley P. A.**, Biegging J. H., Yang J., Xu Y., Tsivilev A. P., Smirnov G. T.
Physics of Space: Proceedings of the 39th International Scientific Conference for Students in Kourouka, Russia, 229. Russian language. 2010.
- “The S 233 Nebula and its Exciting Star.”
Akhmatkhanova G. G., Sobolev A. M., Yushkin M. V., **Boley P. A.**, Biegging J. H.
Physics of Space: Proceedings of the 39th International Scientific Conference for Students in Kourouka, Russia, 233. Russian language. 2010.
- “Results of Spectroscopic Observations of the Young Stellar Object S 235 B on the 6-m Telescope BTA SAO RAS.”
Boley P. A., Sobolev A. M., Moiseev A. V., Yushkin M. V.
Physics of Space: Proceedings of the 38th International Scientific Conference for Students in Kourouka, Russia, 338. Russian language. 2009.
- “Variations in Electron Temperature and Density of Planetary Nebula NGC 7027 from Hubble Space Telescope Observations.”
Boley P. A.
Physics of the Universe: Proceedings of the 37th International Scientific Conference for Students in Kourouka, Russia, 228. Russian language. 2008.
- “NGC 7027: A Glimpse of Stellar Evolution.”
Latter W. B., Biegging J. H., **Boley P. A.**
Astronomical Society of the Pacific Conference Series, 313, 92. 2004.

ADDITIONAL INFORMATION

- Expert knowledge of UNIX/Linux systems and scientific computer programming; specifically C, Python, IDL, IRAF SPP programming, shell scripting, parallel and clustered computing, data processing and analysis systems, device drivers.
- Fluent Russian.
- Basic Spanish and German.
- Member of the [German Alpine Club](#) (2012–Present).
- Principal partner of [Dark Sky Partners, LLC](#) (2007–Present).
- President of the [University of Arizona Astronomy Club](#) (2004–2006).
- President of the [Grosse Pointe High Schools Radio Astronomy Team](#) (2001–2002).