

## Tyler Holland-Ashford

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### Education

The Ohio State University	Astronomy	Ph.D., 2017–present
The Ohio State University	Astronomy	M.S., 2017
Advisor: Laura Lopez		
Harvey Mudd College	Physics	S.B., 2015
Advisor: Ann Esin		

### Honors and Awards

Dean's Distinguished University Dissertation Year Fellowship, <i>OSU</i>	2020-2021
PI, <i>Chandra</i> Archival Proposal (\$53,000), Cycle 21	2019
Title: “ <i>Quantifying Heavy Element Asymmetries in SNRs with Chandra</i> ”	
Dean's Distinguished University Fellowship, <i>OSU Astronomy Dept</i>	2015–2017
President's Scholarship Program (4-year scholarship at <i>Harvey Mudd College</i> )	2011–2015

### Presentations (5 talks, 4 poster presentations, 1 future talk)

“ <i>Probing Ejecta Asymmetries in Core-Collapse SNRs</i> ”	
CfA Galaxies & Cosmology & Stars & Planets Seminar Series, Talk	Fall 2020
“ <i>Measuring the Asymmetries of Heavy Elements in the Supernova Remnant Cassiopeia A</i> ”	
20 Years of <i>Chandra</i> Meeting, Poster Presentation	Winter 2019
SNRs II Meeting in Crete, Greece, Talk	Summer 2019
17th HEAD Meeting, Poster Presentation	Spring 2019
“ <i>Asymmetries of Heavy Elements in Cassiopeia A</i> ”	
NSBP Conference, Talk	Fall 2018
“ <i>Comparing Neutron Star Kicks to Supernova Remnant Asymmetries</i> ”	
16th HEAD Meeting, Poster Presentation	Summer 2017
“ <i>Using Neutron Star Kick Velocities to Investigate Supernova Remnant Asymmetries</i> ”	
SNR Workshop at Niels Bohr Institute, Copenhagen, Denmark, Talk	Summer 2017
SNR Workshop at UC Santa Cruz, Talk	Spring 2017
“ <i>Comparing Neutron Star Kicks to Supernova Remnant Asymmetries</i> ”	
SACNAS National Conference, Poster Presentation	Fall 2016
2nd Universidad de Católica-OSU Workshop, Chile, Talk	Spring 2016

### Other Experience

Teaching Assistant, Astronomy Department, OSU	2018-2019
<i>Astronomy Lab</i> (General Education)	3 semesters
<i>Black Holes</i> (General Education)	2 semesters
<i>Life in the Universe</i> (General Education)	2 semesters

Presenter, OSU “Arne Slettebak Planetarium”, 5 shows	2016-2019
Public and Astronomy Class Attendees	
Oranizer, OSU Graduate Student Summer Colloquium	Summer 2018
Co-organizer, OSU Graduate Student Order of Magnitude Class (GOOM)	2017-2018
OSU Astronomy Public Outreach	Summer 2016
<i>Cosmic Cratering</i> activity at Columbus’ Upper Arlington Public Library	
LBT Observing, 5 nights	June 2016

### Refereed Journal Publications (3 First Author)

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7. **Holland-Ashford, T.**, Lopez, L. A., Auchettl, K., *Spatially-Resolved Study of Recombining Plasma in W49B Using XMM-Newton*, 2020, Accepted to ApJ, arXiv: 2007.11593
6. Picquenot, A., Acero, F., **Holland-Ashford, T.**, Lopez, L. A., Bobin, J., *Three-dimensional Morphological Asymmetries in the Ejecta of Cassiopeia A Using a Component Separation Method in X-rays*, 2020, Submitted to A&A
5. Martínez-Rodríguez, H., Lopez, L. A., Auchettl, K., Badenes, C., **Holland-Ashford, T.**, Patnaude, D. J., Lee, S.-H., Foster, A. R., Slane, P. O., *Evidence of a Type Ia Progenitor for Supernova Remnant 3C 397*, 2020, Submitted to ApJ, arXiv: 2006.08681
4. **Holland-Ashford, T.**, Lopez, L. A., Auchettl, K., *Asymmetries of Heavy Elements in the Young Supernova Remnant Cassiopeia A*, 2020, ApJ, 889, 114H, arXiv: 1904.06357
3. Stafford, J. N., Lopez, L. A., Auchettl, K., **Holland-Ashford, T.**, “*The Age Evolution of the Radio Morphology of Supernova Remnants*”, 2019, ApJ, 884, 113S, arXiv: 1808.08234
2. Auchettl, K., Lopez, L. A., Badenes, C., Ramirez-Ruiz, E., Beacom, J. F., **Holland-Ashford, T.**, “*Measurement of the Core-collapse Progenitor Mass Distribution of the Small Magellanic Cloud*”, 2019, ApJ, 871, 64, arXiv: 1804.10210
1. **Holland-Ashford, T.**, Lopez, L. A., Auchettl, K., Temim, T., Ramirez-Ruiz, E., “*Comparing Neutron Star Kicks to Supernova Remnant Asymmetries*”, 2017, ApJ, 844, 84, arXiv: 1705.08454