Lindsey Oberhelman

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| **Education**  Master’s Astrophysics and Data Science  Leiden University, Leiden, NL | 2019-present |
| Bachelor of Science, Physics  University of Oregon, Eugene, OR, | 2018 |
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| **Work Experience** |  |
| **NASA Summer Intern**  2018                              MSFC, working with the Fermi Gamma-ray telescope. I used Python and my knowledge of Linux commands to build an algorithm that tests the reliability of the flight software across large data sets and find out if it can be made more sensitive. | 2018 |
| **DESY Summer Intern**  Deutsches Elektronen-Synchrotron, Zeuthen, Germany**.** I worked using C++ to create an algorithm to remove noise from low signal data. | 2017 |
| **FisherGroup Undergraduate Researcher**  Department of  Physics, University of Oregon, Eugene, OR. Gemini Observatory, Universidad de Concepción. In a team with two fellow students, worked for two years using Python to analyze photometry and spectroscopy of field galaxies. Used IRAF to get photometry of the Spiderweb galaxy to analyze the evolution of galaxy clusters. | 2016-2019 |
| **Physics Lab Technician**  Department of Physics, University of Oregon, Eugene OR. Worked with many different instruments to set up demonstrations for Physics classes. Used Matlab, Mathematica in order to test the demonstrations. | 2016-2018 |
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| **Science Teaching Experience** | 2017-2019 |
| **Society of Physics Students  Journal Club President/Founder**  University of Oregon. Organized the weekly readings and discussion for the UO undergraduates. The topic of the first 10 weeks of the club was the challenges that under-represented groups in STEM face. | 2016-2018 |
| **Society of Physics Students School Outreach Coordinator**  Eugene, OR.  Organized physics education events at River Road Elementary School and Saraha Children’s school. | 2016-2017 |
| **Undergraduate Student Mentor**  Department of Physics, University of Oregon. Mentored a freshman student on physics, getting into research, and navigating the department. | 2016 |
| **PMO Public Night Volunteer**  *Pine Mountain Observatory, University of Oregon. Operated optical telescopes for the public and gave talks about astronomy.* | 2016-2018 |
| **UO Physics**  **Energy Fair Volunteer**  *Oregon Country Fair, Eugene, OR, worked at the physics of energy educational booth teaching the public about the physics of climate change and energy* | 2016 |
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| **Publications** |  |
| C. Woodrum , I. Jørgonsen , S.  Fisher, L. Oberhelman, R. DeMarco, T. Contreras, J.Bieker, “The Evolution of Bulge-Dominated Field Galaxies from z~1 to the Present”, *The Astrophysical Journal,* Paper | August 22, 2017 |
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| **Selected Presentations** |  |
| **Presentations** |  |
| -Deutsches Elektronen-Synchrotron, Zeuthen, Germany: “Time Variability of MRK 421 Final Report.” | September 7, 2017 |
| -Undergraduate Research Symposium, University of Oregon, Eugene, OR: “Commissioning the Robbins for Undergraduate Research.” | May 17, 2017 |
| -Oregon Space Grant Student Symposium, Oregon State University, Corvallis, OR, *“*Commissioning the Robbins for Undergraduate Research.” | November 9, 2016 |
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| **Poster Presentations** |  |
| -229th Meeting of the American Astronomical Society , Gaylord Texan Resort, Grapevine, TX, “Evolution in Solitude.” | January 6, 2017 |
| 12th Conference for Undergraduate Women in Physics, Montana State University, Bozeman, MT, “Evolution in Solitude.” | January 14, 2017 |
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| **Selected Scholarships/Awards** |  |
| NSF Graduate Research Fellowship Scholarship Program Honorable Mention | 2018 |
| NASA Oregon Space Summer Research Grant | 2016 |
| NASA Oregon Space Grant | 2014-2015 |
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| **Transferable Skills** |  |
| specialized software(LaTeX, LabVIEW, Mathematica, Matlab) -Learned LaTeX in order to write research reports and a paper for my research with Fishergroup. |  |
| Time Management: As demonstrated by balancing school work for my University, work, research, and my extracurriculars. |  |
| programming languages (C, C++, ROOT, Python, Java, R)- Learned from several classes and from my research at DESY, NASA, and with Fishergroup research. |  |