

# Slater Jones Oden

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Montana State University (MSU)  
Department of Physics  
401 Linfield Hall, Bozeman MT 59717  
Bozeman, MT 59718

slateroden@montana.edu  
Phone: (816)-602-1372  
<http://linkedin.com/in/slater-oden-60a048157>

## Positions Held

Spring 2024 - Present	<b>Graduate Research Assistant (GRA)</b> , MSU.
Fall 2022 - Present	<b>Graduate Teaching Assistant (GTA)</b> , MSU.
2021-2022	<b>Graduate Teaching Assistant (GTA)</b> , WSU.
Spring 2021	<b>Undergraduate Teaching Assistant</b> with Daniel McIntosh, UMKC.

## Education

May 2026 (anticipated)	Ph.D., Physics, Montana State University. GPA: 4.0
May 2021	Bachelors of Science (B.S.) in Physics with an emphasis in Astronomy. University of Missouri-Kansas City. GPA: 3.963.
2018	Missouri High School Diploma. Smithville High School. GPA: 4.017.

## Referred Publications, as first-author

1. *Searching for the Edge of the Large Magellanic Cloud (LMC)* **Slater Oden**], (incl. **Nidever, D.**), **Anticipated** (2024).
2. *Searching for the Edge of the Carina Dwarf Spheroidal (dSph)*, **Slater Oden**, (incl. **Nidever, D.**), **Anticipated** (2024).

## Referred Publications, as co-author

1. *Characterization of Residual Morphological Substructure Using Supervised and Unsupervised Deep Learning*, Kameswara Mantha, (incl **Oden, S.J**), **anticipated** (2024).
2. *Cold HI Gas Analysis of Existing Recently Quenched Elliptical Galaxies*, Deepak Deo, (incl **Oden, S.J**), **anticipated** (2024).

## Research Technical Reports

1. Classification of residual images of galaxies (2021), *Analysis of Residual Galaxy Images Technical Report*. Research Lead: Kameswara Mantha .

2. Near-Ultraviolet light analysis of star formation signatures in Recently Quenched Ellipticals (2021), *GALEX Analysis of Recently Quenched Ellipticals (RQE) Technical Report*. Research Lead: Deepak Deo.

## Seminar and Conference Presentations

- Milky Clouds over Manhattan (Flatiron Institute in New York City) March 2024.

## Work Experience

2019-2021                      North Kansas City Bureau of Investigations (NKCBI).

## Work Force Preparation

Jan. 2024 - Present	<b>Graduate Research Assistant (GRA)</b> with David L. Nidever, MSU.
Summer 2021	<b>Research Assistant Intern</b> with Daniel McIntosh, Kameswara Mantha and Deepak Deo, UMKC.
Jan. 2021 - April 2021	NASA Proposal Writing and Evaluation Experience Academy (NPWEEA) Member.
Aug. 2020 - Jan. 2021	NASA L'SPACE Mission Concept Academy (MCA) Member and Lead Scientist.

## Teaching Experience

**PHYSICS 594** *Intro to Python Seminar*, seminar instructor for a undergraduate/graduate introductory python class taught using Jupyter Notebooks, Spring 2024 - Present.

**PHYSICS 220** *College Physics I*, lab instructor for a undergraduate algebra based classical mechanics physics lab, Spring 2023 - Present.

**PHYSICS 220** *College Physics I (w/ Calculus)*, lab instructor for a undergraduate calculus based classical mechanics physics lab, Fall 2022 - Present.

**PHYSICS 205** *College Physics I*, departmental grader for a undergraduate algebra based classical mechanics physics lab, Fall 2022 - Present.

**PHYSICS 211** *Physics Lab for Scientist and Engineers*, lab instructor for a undergraduate calculus based physics lab, Fall 2021 - Summer 2022.

**PHYSICS 201** *Physics for Scientist and Engineers*, departmental grader for a undergraduate calculus based physics class, Fall 2021 - Summer 2022.

**PHYSICS 155** *Astronomy: Starlight and Starstuff*, departmental grader for a introductory astronomy class, Spring 2021.

## Extracurricular Activities

2024 (anticipated)	<b>MSU Science Day</b> Presenter, MSU.
2021 - 2022	<b>OPTICA-SPIE</b> Graduate Club Member, WSU.
2020 - 2021	<b>Honors College Student</b> , UMKC.
2020 - 2021	Galaxy Evolution Group (GEG) Member, UMKC
2018 - 2021	<b>Society of Physics Students</b> (SPS) Memeber, UMKC

## Honors Presentations and Papers

1. Cosmic Microwave Background and the Planck Satellite Presentation (2021), *CMB - Planck*.
2. Astronomy Overview Presentation (2021), *All About Astronomy*.
3. Optics and Astronomy Paper (2021), *Application of Optics and Astronomy*.
4. Electricity and Magnetism Paper (2020), *History of Electricity and Magnetism*.
5. Quantum Mechanics Paper (2020), *History of Quantum Mechanics*.

## Awards

1. 4 Academic Letters from Smithville High School (2015, 2016, 2017, 2018).
2. A+ Scholarship (2018).
3. Chancellor's Renewal Scholarship (2018, 2019, 2020, 2021).
4. UMKC Achievement Award Scholarship (2018, 2019, 2020, 2021).
5. Advanced on the HEIghten Quantitative Literacy Assessment (2018).
6. Deans List Nominee for 8 consecutive semesters (2018, 2019, 2020, 2021).
7. **UMKC Honors College Alumni** (2021).
8. **Summa Cum Laude Graduate** (2021).
9. **University Honors Graduate** (2021).

## Tools and Technologies

1. Python.
2. Jupyter Notebooks.
3. Jupyter Labs.
4. LaTeX.
5. Topcat.
6. Mathematica.
7. MathCad.
8. DS9.

9. JMARS.

## References

1. **David Nidever.**

Assistant Professor  
Montana State University  
Email: davidnidever@montana.edu

3. **Kameswara Mantha.**

Post-Doctoral Researcher  
University of Minnesota  
Email: km4n6@mail.umkc.edu

2. **Daniel McIntosh.**

Department Chair  
University of Missouri - Kansas City  
Email: mcintoshdh@umkc.edu

4. **Nicholas Cerruti.**

Professor  
Washington State University  
Email: ncerruti@gmail.com