

# Marcell Howard

*Curriculum Vitae*

## PERSONAL DETAILS

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*Address*            3941 O'Hara Street, Pittsburgh, PA 15260 USA  
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*Website*        <https://marcellhoward.github.io/>

## EDUCATION

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**University of Pittsburgh, Pittsburgh, PA** *2019-Present*  
*Ph.D., Physics and Astronomy*

**Case Western Reserve University, Cleveland, OH** *2015-2019*  
*B.S., Mathematics and Physics*

## RESEARCH EXPERIENCE

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**Graduate Research Assistant** *2020 - Present*  
*University of Pittsburgh advised by Arthur Kosowsky*

**Senior Honor's Thesis** *2018 - 2019*  
*Case Western Reserve University advised by Kurt Hinterbichler*

**Research Experience for Undergraduates** *Summer 2018*  
*Rutgers, the State University of New Jersey advised by Andrew Baker*

**Research Experience for Undergraduates** *Summer 2017*  
*Cornell University advised by Gordon Stacey*

## TEACHING EXPERIENCE

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**Graduate Teaching Assistant**  
*PHYS 0111: Introduction to Physics 2*  
*PHYS 0174: Basic Physics for Science and Engineering I*  
*PHYS 0175: Basic Physics for Science and Engineering II*  
*PHYS 0212: Introduction to Laboratory Physics*

- Held two-four recitation sessions per week.
- Graded quizzes and tests.

**Supplemental Instructor**  
*MATH121: Calculus for Scientists and Engineers I*  
*MATH122: Calculus for Scientists and Engineers II*

- Held three small groups and one recitation session per week.
- Graded quizzes and tests.

## Undergraduate Teaching Assistant

*PHYS121: General Physics I – Mechanics*

*PHYS122: General Physics II - Electricity and Magnetism*

- Graded written homework handed in every week.
- Handed out in class assignments and provided help to various students.

## TALKS AND POSTER PRESENTATIONS

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**Case Western Reserve University**

*May 2019*

*The People vs Mimetic Gravity*

Contributed poster and talk

**American Astronomical Society Meeting (Seattle, WA)**

*January 2019*

*Probing the Evolution of Galaxies Using Stellar Mass Selected Samples*

Contributed poster

**Case Western Reserve University**

*Oct 2018*

*Counting the Degrees of Freedom in Mimetic Gravity*

Contributed talk

**Rutgers, the State University of New Jersey**

*Aug 2018*

*Probing the Evolution of Galaxies Using Stellar Mass Selected Samples*

Contributed poster and talk

**Cornell University**

*Aug 2017*

*Using Far-Infrared Fine-Structure Lines for Characterizing the Star Formation Processes in Nearby Galaxies*

Contributed poster and talk

## SKILLS

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|                    |                                |
|--------------------|--------------------------------|
| <i>Programming</i> | Python, Mathematica, Matlab    |
| <i>Software</i>    | SciPy/matplotlib, AstroPy, git |

## PROFESSIONAL ORGANIZATIONS

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**National Society of Black Physicists**

*2018-Present*

## FELLOWSHIPS AND AWARDS

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**2021 Honorable Mention for the Ford Foundation Predoctoral Fellowship**

*2021*

**Dietrich School of Arts and Sciences Summer Research Predoctoral Fellowship**  
*2020*

**Kenneth P. Dietrich School of Arts & Sciences Fellowship**

*2019*

**Hayden Scholarship**

*2017*

|                      |             |
|----------------------|-------------|
| Gaemsslen Grant Fund | <i>2017</i> |
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| Case Alumni Scholarship | <i>2017</i> |
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| University Scholarship | <i>2015</i> |
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| CWRU Grant | <i>2015</i> |
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## **PUBLICATIONS**

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