

# CURRICULUM VITAE

## KESHAWN IVORY

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### EDUCATION

- Fisk University Anticipated: 2021  
**M.A. in Physics**
- Rice University Graduated December 2018  
**B.A. in Astronomy and French Studies**

### RESEARCH EXPERIENCE

- **Independent Research**  
Southern Methodist University, Dallas, TX  
Advisor: Dr. Robert Kehoe June 2014 – August 2014
  - Examined stellar light curves to identify variable star candidates, created a map of such candidates in galactic coordinates.
- **National Science Foundation Research Experience for Undergraduates**  
Texas Christian University, Fort Worth, TX  
Advisor: Dr. Kat Barger May 2016 – August 2016
  - Examined gaseous behavior in nearby galaxies to trace ionizing radiation using the Interactive Data Language and wrote up the results informally using LaTeX.
- **Banneker and Aztlán Institutes Summer Internship**  
Harvard-Smithsonian Center for Astrophysics, Cambridge, MA  
Advisor: Professor Charlie Conroy June 2017 – August 2017
  - Explored the methodology of a Python data pipeline designed to obtain stellar parameters from spectra and spectral energy distributions in the context of Markov Chain Monte Carlo processes and Bayesian statistics.
  - Read social justice-related content and attended social justice discussions in order to consider ways to diversify and decolonize astronomy and all of science and academia.

### SKILLS

- **French-** speak, write, read, and listen fluently
- **Coding Languages-** Python, MATLAB, IDL

### PUBLICATIONS

- *“Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe”*  
The Astronomical Journal, 2017. (Collaborator)

### CONFERENCES

- **Texas Astronomy Undergraduate Research Symposium** September 2016

- Baylor University in Waco, TX
  - Talk given at this conference.
- **229<sup>th</sup> meeting of the American Astronomical Society** January 2017  
Grapevine, TX
  - Poster session given at this conference.
- **Rice Undergraduate Research Symposium** April 2017  
Rice University in Houston, TX
  - Talk given at this conference.
- **Texas Astronomy Undergraduate Research Symposium** October 2017  
Rice University in Houston, TX
  - Talk given at this conference.
- **231<sup>st</sup> meeting of the American Astronomical Society** January 2018  
National Harbor, MD
  - Poster session given at this conference.
- **233<sup>rd</sup> meeting of the American Astronomical Society** January 2019  
Seattle, WA
  - Invited panelist on the Know Your Power panel about marginalized populations in astronomy.

## WORK EXPERIENCE

- Remote March 2018 - June 2020  
**Site Visit Oversight Committee Member**- American Astronomical Society
  - Attends biweekly teleconferences at which documentation and protocol are discussed for AAS sponsored site visits for the purpose of evaluating departmental climate with regard to marginalized groups.
  - Serves as the only undergraduate member and represents the experience of the undergraduate astronomy community as undergraduates typically do not serve on AAS committees.
- Rice University, Houston, TX August 2016 - May 2018  
**Teaching Assistant**- to Dr. Andrea Isella, Dr. Stephen Bradshaw, and Dr. Eugene Levy in "Stars, Galaxies & the Universe"
  - Graded weekly problem sets as well as a science-writing analysis assignment, met with students upon request and led a weekly office hour.
- Rice University, Houston, TX May 2017  
**Advisor**- Young Owls Leadership Program
  - Served as an advisor to a group of high school sophomores during a rigorous live-in program on Rice's campus intended to teach college preparation.
- Rice University, Houston, TX August 2017 - December 2017  
**Senior Interviewer**- Rice University Office of Admission
  - Interviewed high school seniors twice a week to determine if they would make a good fit for Rice's incoming class.

## OTHER

- Member of the Rice Philharmonics A Cappella Group September 2014-Present
- Cofounder of "Race@Rice" Discussion Forum March 2015

- Music Director of *"Hello Hamlet"*
- President of Pi Delta Phi French Honor Society

December 2015- March 2016

August 2017-May 2018