

---

# SIMONE ANGELIQUE HYATER-ADAMS

## Curriculum Vitae

Email: [simone.hyateradams@colorado.edu](mailto:simone.hyateradams@colorado.edu)  
LinkedIn: [linkedin.com/in/simone-hyater-adams](https://www.linkedin.com/in/simone-hyater-adams)

---

## Education

University of Colorado Boulder  
ATLAS Institute  
Degree: Ph.D. Physics Education Research  
Expected Graduation: May 2019

Hampton University  
Degree: BS Physics  
Graduated: May, 2014

---

## Awards and Honors

National Science Foundation Graduate Research Fellowship, 2016-2019

APS Outstanding Poster Presentation at NSBP Conference, 2015

Virginia Space Grant Consortium Undergraduate Research Scholar, 2013-2014

---

## Research Interests

- Physics Education
  - Informal Education Programming
  - STEAM/Performance Art
  - Critical Race Studies
  - Identity
- 

## Research Experience

### Education Research:

Identity Research  
Fall 2014-Current

Advisors: Kathleen Hinko & Noah Finkelstein

ATLAS Institute/ CU  
Physics Education  
Research Group

- Develop framework for Racialized Physics Identity
  - Create a model for Physics Identity for Black physicists
-

<b>Informal Science</b> Fall 2014-2016  JILA Physics Frontier Center	Advisors: Kathleen Hinko & Noah Finkelstein  <ul style="list-style-type: none"> <li>○ Develop and facilitate informal programming for K-8 students</li> <li>○ Examine physics identity development of physics students who volunteer in PISEC outreach program</li> </ul>
<b>Physics Research:</b>	
<b>Laser Spectroscopy</b> Sept 2012-May 2014  Hampton University Physics Department	Advisor: Uwe Hommerich  <ul style="list-style-type: none"> <li>○ Crystal Growth and synthesis of solid state Holmium</li> <li>○ Investigation of spectroscopic characteristics</li> <li>○ Evaluation of usefulness in 2000 nanometer lasing</li> </ul>
<b>LARSS Internship</b> June 2013-May 2014  NASA Langley-Science Directorate	Advisor: Margaret Pippin Topic: LEARN Program  <ul style="list-style-type: none"> <li>○ Assisted in the coordination and facilitation of LEARN 2013 workshop</li> <li>○ Mastered the retrieval, formatting, and organizing of atmospheric data</li> <li>○ Analyzed possible ozone and aerosol instrument for use in the GLOBE program</li> </ul>
<b>LARSS Internship</b> Advisor: Russell DeYoung  NASA Langley-Science Directorate	NASA Langley-Science Directorate June-August 2012 Topic: LIDAR research  <ul style="list-style-type: none"> <li>○ Maintained LIDAR lab and equipment</li> <li>○ Took measurements of oxygen in water</li> <li>○ Completed a personal research project on the design of a tree windbreak</li> </ul>
<b>CREST Program</b> Advisor: Dr. Robert Loughman  Hampton University Atmospheric Sciences Department	Feb 2011-August 2011 Topic: Laser Spectroscopy Research  <ul style="list-style-type: none"> <li>○ Assisted in the editing of an ozone retrieval algorithm</li> <li>○ Analyzed and compared algorithm with different methods</li> </ul>

## Teaching Experience

---

<b>SASC Intro Physics Co-Seminar</b> Instructor	University of Colorado Boulder Fall 2015
<b>Teaching Assistantship</b> Physics 1110 (Calculus Based Intro Physics)	University of Colorado Boulder Spring 2015

---

## Outreach Experience

---

<b>SMART Summer Program</b> Lead Graduate Mentor	Colorado Diversity Initiative Summer 2015-2017
<b>PISEC Program</b> Graduate Student Director	CU Boulder JILA Physics Frontier Center Fall 2014-2016
<b>Physics Department Tutoring</b> Tutor for Intro Physics	Hampton University 2011-2013
<b>Gear UP Program</b> Volunteer Worker	Mariner's Museum Hampton, VA Nov-2010, Feb-2011 State Aquarium Virginia Beach, VA Nov-2011
<b>Girls Inc Physics Day</b> Demo Team Member	Hampton Convention Center Hampton, VA Nov-2012, Dec-2013

---

## Publications:

### Academic Journal and Conference Proceedings Papers:

---

<b>S. Hyater-Adams, C. Fracchiolla, N. Finkelstein, K. Hinko.</b> "A Critical Look at Physics Identity: An Operationalized Framework for Examining Race and Physics Identity". Physical Review: Physics Education Research. Submitted.
<b>S. Hyater-Adams, Tamia Williams, C. Fracchiolla, N. Finkelstein, K. Hinko.</b> "Intersectionality and Physics Identity: A Case Study of Black Women From Different Nationalities". Physics Education Research Conference Proceedings 2017.
<b>D.R. Dounas-Frazer, S. Hyater-Adams, D. Reinholtz.</b> "Learning to do diversity work: A model for continued education of program organizers". The Physics Teacher 55, 342 (2017).

---

---

**S. Hyater-Adams**, C. Fracchiolla, N. Finkelstein, K. Hinko. "Understanding connections between physics and racial Identities through recognition and relational resources". Physics Education Research Conference Proceedings 2016.

---

**S. Hyater-Adams**, K. Hinko, N. Finkelstein. "Pathways to STEM: Understanding Identity of Adult Physicists through Narrative Analysis". Physics Education Research Conference Proceedings 2015.

---

**S. Hyater-Adams**, R. DeYoung. "Use of Windbreaks for Hurricane Protection of Critical Facilities." NASA/TM-2012-217788.

---

## Op-Ed Pieces:

---

"An Intern's Story: Make Your Net-Work!". **S. Hyater-Adams**.  
<http://www.nasa.gov/larc/an-intern-s-story-make-your-net-work/#.UqgPIKURZuZ>

---

"Graduate Student Snapshot: Simone Hyater-Adams". A. Grennell. Science Buffs Blog.  
<http://www.sciencebuffs.org/2015/04/graduate-student-snapshot-simone-hyater.html>

---

## Presentations

### Talks:

---

"Identity Studies: Intersections of Physics and Performance for Physicists of Color"  
**S. Hyater-Adams, T. Williams**  
Cultivating Ensembles in STEM Education and Research, 2017

---

"CU Prime Diversity Workshop Model: Training Teachers and Student Leaders around Issues of Equity"  
**S. Hyater-Adams, D.R. Dounas-Frazer, D. Reinholz**  
American Association of Physics Teachers Summer Meeting, 2017

---

"Understanding the Relationship Between Racial and Physics Identity for Black Students"  
**S. Hyater-Adams, K. Hinko, N. Finkelstein**  
American Association of Physics Teachers Summer Meeting, 2016

---

"CU-Prime Diversity Workshops: Creating Spaces for Growth Amongst Organizers"  
**S. Hyater-Adams**  
American Physical Society April Meeting, 2016

---

"Utilizing Informal Science Programs to Understand and Promote the Connections between Physics identity and Racial Identity."\  
**S. Hyater-Adams, K. Hinko, N. Finkelstein**  
American Association of Physics Teachers Summer Meeting, 2015.

---

---

"Carpooling for STEM Education: CU Prime"

**S. Hyater-Adams, B. Pollard**

University of Colorado Boulder Diversity Summit, 2014.

---

## **Workshops, Panels, Organized Sessions:**

---

**S. Hyater-Adams** (Panelist). "Promoting Inclusion via Student Activism". Conference on Undergraduate Women in Physics, 2018.

---

**S. Hyater-Adams** (Panelist). Graduate Students of Color Collective. "Beyond Ferguson Panel". University of Colorado Boulder Diversity Summit, 2014.

---

**S. Hyater-Adams** (Panelist). United Government of Graduate Students. "Learning to Listen: Graduate Student Leaders on Graduate Student Climate Change Panel". University of Colorado Boulder Diversity Summit, 2015.

---

**S. Hyater-Adams** (Session Organizer) "Coping mechanisms for physics students from underrepresented groups" American Association of Physics Teachers

---

## **Posters:**

---

**S. Hyater-Adams**, K. Hinko, N. Finkelstein. "Utilizing Informal Science Programs to Understand and Promote the Connections between Physics identity and Racial Identity." National Society of Black Physicists Conference, 2015.

---

**S. Hyater-Adams**, R. DeYoung. Use of Windbreaks for Hurricane Protection of Critical Facilities. Langley Aerospace Research Student Scholars Poster Session, 2012.

---

**S. Hyater-Adams**, M. Pippin. Long-term Engagement in Authentic Research with NASA (LEARN). Langley Aerospace Research Student Scholars Poster Session, 2013. Conference for Undergraduate Women in Physics, 2014.

---

**S. Hyater-Adams**, U. Hommerich, E. Brown. Spectroscopic studies of  $\text{Ho}^{3+}$  doped  $\text{KPb}_2\text{Cl}_5$  and  $\text{KPb}_2\text{Br}_5$  for applications in resonantly pumped  $2\text{ }\mu\text{m}$  lasers, External Advisory Board Meeting NSF-CREST at Hampton University, 2013.

---

Pippin, M., R. Kollmeyer, J. Joseph, M. Yang, , A. Omar, T. Coleman, J. Taylor, P. Lewis, A. Weisman, **S. Hyater-Adams**, Long-term Engagement in Authentic Research with NASA (LEARN): Lessons Learned from an Innovative Model for Teacher Research Experiences. American Geophysical Union, Fall Meeting 2013, abstract #1819156

---

## **Conferences Attended**

---

Cultivating Ensembles in STEM Education and Research

September, 2017

---

National Society of Black Physicists Conference	November, 2017
Physics Education Research Conference	July, 2017
American Association of Physics Teachers Summer Meeting	July, 2017
APS National Mentoring Community Meeting	October 2016
Physics Education Research Conference	July, 2016
American Association of Physics Teachers Summer Meeting	July, 2016
APS April Meeting	April, 2016
Physics Education Research Conference	July, 2015
American Association of Physics Teachers Summer Meeting	July, 2015
National Society of Black Physicists Conference	February, 2015
Conference for Undergraduate Women in Physics (CUWiP)	January, 2014
Hampton University School of Science Research Symposium	April, 2011-2013
Virginia Space Grant Consortium Annual Research Conference	April, 2011-2013
NASA STS-135 Pre Launch Education Un-Conference	July, 2011

## National Organizations

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>○ <b>American Physical Society</b><br/>Position: Member</li> <li>○ <b>American Association of Physics Teachers</b><br/>Position: Committee on Diversity Member</li> </ul> | <ul style="list-style-type: none"> <li>○ <b>National Society of Black Physicists</b><br/>Position: Member</li> <li>○ <b>Access Network</b><br/>Position: Access Site Student Organizer</li> </ul> |
|--|---|

## Non-Profit Work

- |  |  |
|--|--|
| <b>Pittsburgh Learning Commons</b><br>Board Member | <ul style="list-style-type: none"> <li>○ Educational non-profit focused on collaborating with the great Pittsburgh community to create youth programming</li> <li>○ Manages after school programs</li> </ul> |
|--|--|

## Graduate Student Organizations

- 
- |   |  |
|---|--|
| ○ <b>United Government of Graduate Students</b><br>ATLAS Representative | ○ <b>CU Cafe</b><br>Communications Point Person        |
| ○ <b>ATLAS Student Group</b><br>PhD & Student Government Representative | ○ <b>CU Prime</b><br>Diversity Workshop Co-Facilitator |
- 

## Diversity Workshops Facilitated

---

2017 CU-Prime Workshop	“Introduction to White Savior Narrative and Radical Honesty” <b>S. Hyater-Adams</b> , D.R. Dounas-Frazer, K. Rainey
2016 APS National Mentoring Community Meeting	“From Surviving to Striving in Academia” <b>S. Hyater-Adams</b> & W. Mommandi
2016 Summer Multicultural Access to Research Training (SMART) Program	“From Surviving to Striving in Academia” <b>S. Hyater-Adams</b> & W. Mommandi
2016 CU-Prime Workshop	“What We’ve Learned So Far” <b>S. Hyater-Adams</b> & D.R. Dounas-Frazer,
2015 CU-Prime Workshop	“Deconstructing Diversity” <b>S. Hyater-Adams</b> & D.R. Dounas-Frazer
2015 CU-Prime Workshop	“Social Change and Allyship” <b>S. Hyater-Adams</b> & D.R. Dounas-Frazer
2015 CU-Prime Workshop	“Moving Beyond the Deficit Model” <b>S. Hyater-Adams</b> , D.R. Dounas-Frazer, D. Reinholz
2015 CU-Prime Workshop	“First-Generation College Students” <b>S. Hyater-Adams</b> , D.R. Dounas-Frazer, D. Reinholz

---