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# SIMONE ANGELIQUE HYATER-ADAMS

## *Curriculum Vitae*

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Website: [www.simoneha.com](http://www.simoneha.com)

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## Education

University of Colorado Boulder

ATLAS Institute

**Degree:** Ph.D. in Technology, Media, and Society

**Focus:** Physics Education Research

**Expected Graduation:** May 2019

Hampton University

**Degree:** BS Physics

**Graduated:** May, 2014

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## Awards and Honors

APS 4 Corners Section Harry Lustig Award, 2018

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

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## Research Interests

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

**NSF Graduate Research Fellowship**

\$46,000 for 3 years

Spring 2016-19

“Informal Education for Students of Color:  
Impacts on Racial and Physics Identity”

**Advisor:** Noah Finkelstein

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<b>Grable Foundation Mini-Grant</b> \$2,000 Summer 2018	"Performing Physics Summer Camp" <b>Organization:</b> Pittsburgh Learning Commons <b>Co-PIs:</b> Jacqueline Cameron, Patrick Cooper
<b>CU Boulder Inclusive Excellence Grant</b> \$3,000 Fall 2016-17	"Empowering Physics Students to Promote Inclusive Excellence at CU: Innovation and Iteration of CU-Prime Diversity Workshops" <b>Organization:</b> CU-Prime <b>Co-PIs:</b> Dimitri Dounas-Frazer, Katherine Rainey
<b>Synberc Expanding Potential Seeds</b> CU-Prime Diversity Workshops \$2,065 Spring 2015-16	"CU-Prime Diversity Workshops" <b>Organization:</b> CU-Prime <b>Co-PIs:</b> Dimitri Dounas-Frazer, Daniel Reinholtz
<b>CU Boulder Inclusive Excellence Grant</b> \$7,770 Spring 2015-16	"Incorporating Physics and Performance Art in PISEC Outreach" <b>Organization:</b> PISEC <b>PIs:</b> Noah Finkelstein & Kathleen Hinko <b>Position:</b> Co-Author & Senior Researcher

## Research Experience

### EDUCATION RESEARCH:

<b>AIP TEAM-UP Task Force</b> Fall 2018-Current	Advisors: Mia Ong & Sharon Fries-Britt <ul style="list-style-type: none"> <li>○ Write Literature Review for Project Report</li> <li>○ Conduct Focus groups at the 2018 NSBP Conference</li> </ul>
<b>Identity Research</b> Fall 2014-Current  ATLAS Institute/ CU Physics Education Research Group	Advisors: Kathleen Hinko & Noah Finkelstein <ul style="list-style-type: none"> <li>○ Develop a framework for Racialized Physics Identity</li> <li>○ Create a model for Physics Identity for Black physicists</li> </ul>
<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> </ul>

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- Examine physics identity development of physics students who volunteer in PISEC outreach program
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## PHYSICS RESEARCH:

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**Laser Spectroscopy**  
Sept 2012-May 2014

Advisor: Uwe Hommerich

Hampton University Physics  
Department

- Crystal Growth and synthesis of solid state Holm
  - Investigation of spectroscopic characteristics
  - Evaluation of usefulness in 2000 nanometer lasing
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**LARSS Internship**  
June 2013-May 2014

Advisor: Margaret Pippin  
Topic: LEARN Program

NASA Langley-Science Directorate

- Assisted in the coordination and facilitation of LI 2013 workshop
  - Mastered the retrieval, formatting, and organizing of atmospheric data
  - Analyzed possible ozone and aerosol instrument for use in the GLOBE program
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**LARSS Internship**  
Advisor: Russell DeYoung

NASA Langley-Science Directorate  
June-August 2012  
Topic: LIDAR research

NASA Langley-Science Directorate

- Maintained LIDAR lab and equipment
  - Took measurements of oxygen in water
  - Completed a personal research project on the design of a tree windbreak
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**CREST Program**  
Advisor: Dr. Robert  
Loughman

Feb 2011-August 2011  
Topic: Laser Spectroscopy Research

Hampton University Atmospheric  
Sciences Department

- Assisted in the editing of an ozone retrieval algorithm
  - Analyzed and compared algorithm with different methods
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## Diversity Consulting Experience

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Prime Directive Consulting Group

2010

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Philadelphia School District	○ Project management
NTL Internship	<b>2011</b> ○ Assisted interim President

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## Teaching Experience

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<b>Performing Physics Summer Camp</b> Lead Instructor & Curriculum Developer	Pittsburgh learning COMmons Summer 2018
<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

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## Outreach Experience

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<b>Performing Physics Summer Camp</b> Creator & Lead Instructor	Pittsburgh Learning Commons Summer 2018
<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

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## Professional Organizations

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| <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><li>○ <b>NTL</b><br/>Position: Student 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/Assembly Fellow</li></ul> |
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## Non-Profit & Volunteer Work

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<b>Cultivating Ensembles in STEM Education and Research Conference</b> Conference Organizer 2018-2019	A conference that brings together people with different sensibilities and interests in STEM to celebrate the interwoven nature of sciences, technologies, humanities, and arts as human activities.
<b>Pittsburgh Learning Commons</b> Board Member 2017-Current	An educational non-profit focused on collaborating with the greater Pittsburgh community to create youth programming
<b>American Association of Physics Teachers Committee on Diversity in Physics</b> Committee Member 2016-Current	The committee seeks more effective means of recruitment and retention of minority members of society in physics classes and physics related careers.

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## Graduate Student Organizations

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| <ul style="list-style-type: none"><li>○ <b>United Government of Graduate Students</b><br/>ATLAS Representative</li><li>○ <b>ATLAS Student Group</b><br/>Graduate Student Government Representative</li></ul> | <ul style="list-style-type: none"><li>○ <b>CU Cafe</b><br/>Chair</li><li>○ <b>CU Prime</b><br/>Diversity Workshop Co-Facilitator</li></ul> |
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## Publications:

### JOURNAL & CONFERENCE PAPERS:

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1. S. Hyater-Adams, N. Finkelstein, K. Hinko. "Performing Physics: An Analysis of Design-Based Informal STEAM Education Programs". Physics Education Research Conference Proceedings 2018. Accepted.
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2. **S. Hyater-Adams**, C. Fracchiolla, N. Finkelstein, K. Hinko (2018). "Critical Look at Physics Identity: An Operationalized Framework for Examining Race and Physics Identity". *Physical Review: Physics Education Research*. **14**, 010132.
  3. **S. Hyater-Adams**, Tamia Williams, C. Fracchiolla, N. Finkelstein, K. Hinko. "Intersectionality and Physics Identity: A Case Study of Black Women From Different Nationalities". *Physics Education Research Conference Proceedings* 2017.
  4. D.R. Dounas-Frazer, **S. Hyater-Adams**, D. Reinholtz. "Learning to do diversity work: A model for continued education of program organizers". *The Physics Teacher* 55, 342 (2017).
  5. C. Fracchiolla, **S. Hyater-Adams**, N. Finkelstein, K. Hinko. "University physics students' motivations and experiences in informal physics programs". *Physics Education Research Conference Proceedings* 2016.
  6. **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.
  7. **S. Hyater-Adams**, K. Hinko, N. Finkelstein. "Pathways to STEM: Understanding Identity of Adult Physicists through Narrative Analysis". *Physics Education Research Conference Proceedings* 2015.
  8. **S. Hyater-Adams**, R. DeYoung. "Use of Windbreaks for Hurricane Protection of Critical Facilities." NASA/TM-2012-217788.
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## OP-ED PIECES:

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"An Intern's Story: Make Your Net-Work!". **S. Hyater-Adams**.

<http://www.nasa.gov/larc/an-intern-s-story-make-your-net-work/#.UggPIKURZuZ>

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"Graduate Student Snapshot: Simone Hyater-Adams". A. Grennell. *Science Buffs Blog*.

<http://www.sciencebuffs.org/2015/04/graduate-student-snapshot-simone-hyater.html>

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"Racial Identity and Physics" *Filling Space Blog*. N. Borroz & **S. Hyater-Adams**.

<https://filling-space.com/2019/01/11/racial-identity-and-physics/>

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## Presentations

### INVITED TALKS:

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"Can Performance Support Black Physics Identity?: An investigation of the connections between identity, race, physics, and performance art" **S. Hyater-Adams**. *Physics Education Research Seminar*. Michigan State University, October 3rd, 2018.

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"Identity Studies: Intersections of Physics and Performance for Physicists of Color"

**S. Hyater-Adams, T. Williams**

*Cultivating Ensembles in STEM Education and Research*, 2017

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"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

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"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

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"CU-Prime Diversity Workshops: Creating Spaces for Growth Amongst Organizers"

**S. Hyater-Adams**

American Physical Society April Meeting, 2016

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"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

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"Physics Road Map: My Research Adventure"

**S. Hyater-Adams**

CU-Prime Seminar Series, SP 2015

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"Carpooling for STEM Education: CU Prime"

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

University of Colorado Boulder Diversity Summit, 2014

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## **PANELS & ORGANIZED SESSIONS:**

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**S. Hyater-Adams** (Panelist). "Results from the First Safe Space for People of Color Meeting in PERC". AAPT Winter Meeting, 2019.

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**S. Hyater-Adams** (Panelist). "Diversity and Inclusion". CommSciConn Rocky Mountain West, 2018.

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**S. Hyater-Adams, M.B. Bennett, B. Fiedler, K. Hinko, C. Fracchiolla.** "Wonderful Ideas Deserve Wonderful Research: Techniques for Studying Informal Physics Programs" Physics Education Research Conference, 2018.

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

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**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.

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

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**S. Hyater-Adams** (Session Organizer) "Coping mechanisms for physics students from underrepresented groups" American Association of Physics Teachers Summer Meeting 2017.

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## POSTERS:

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**S. Hyater-Adams**, N. Finkelstein, K. Hinko. "Performing Physics: An Analysis of Design-Based Informal STEAM Education Programs." Physics Education Research Conference, 2018.

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**S. Hyater-Adams**, C. Fracchiolla, N. Finkelstein, K. Hinko. "Intersectionality and Physics Identity: A Case Study of Black Women From Different Nationalities." Physics Education Research Conference, 2017.

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**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, 2016.

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**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.

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

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**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.

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**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.

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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

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## Conferences Attended

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American Association of Physics Teachers Winter Meeting
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January, 2019
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American Physical Society Four Corners Section Meeting	September, 2018
Physics Education Research Conference	July, 2018
American Association of Physics Teachers Summer Meeting	July, 2018
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
Expanding Potential 2016 Workshop	January, 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

## Diversity Workshops Facilitated

2018 Access Network Assembly	"Working Towards Anti-Oppressive Organizations" <b>S. Hyater-Adams</b> , J. Corbo, G. Quan
2018 Access Network Assembly	"How to Run a Diversity Workshop"

	<b>S. Hyater-Adams</b> , D. Kamau, V. Hernandez-Cruz
2018 CU-Prime Workshop	“Disrupting Sexism in Physics” <b>S. Hyater-Adams</b> , D.R. Dounas-Frazer, K. Rainey
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 Thriving in Academia” <b>S. Hyater-Adams</b> & W. Mommandi
2016 Summer Multicultural Access to Research Training (SMART) Program	“From Surviving to Thriving in Academia” <b>S. Hyater-Adams</b> & W. Mommandi
2016 Synberc Expanding Potential Workshop	“CU Prime Diversity Workshops: Creating Spaces for Growth Amongst Organizers” <b>S. Hyater-Adams</b>
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