

# Henry "Trae" Winter III, PhD

Co-Founder, Chief Executive  
Officer, Chief Scientist

## CONTACT

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## EDUCATION

**PhD in Physics**  
Montana State University | 2009

**MS in Physics**  
University of Memphis | 2001

**BS in Psychology**  
University of Memphis | 1998

## SELECT INTERVIEWS

Alicia Ault, *These Two Scientists  
Turned Data From the Sun Into a  
Work of Art*, Smithsonian Magazine,  
July 8, 2015, [bit.ly/2015\\_SmithMag](https://bit.ly/2015_SmithMag)

Carolyn Beeler, *Helping the Blind  
'See' the Solar Eclipse, The World*,  
August 11, 2017, [bit.ly/PRI\\_ESP](https://bit.ly/PRI_ESP)

## EXPERIENCE

### CO-FOUNDER, CEO & CHIEF SCIENTIST

ARISA Lab, LLC | 2020–present

### ASTROPHYSICIST

Smithsonian Astrophysical Observatory | 2009–2020

## RELEVANT PROJECTS

Project Lead for the Eclipse Soundscapes Project which made the August 21, 2017 total solar eclipse accessible to everyone including people who are blind and visually-impaired. Find out more at [EclipseSoundscapes.org](https://EclipseSoundscapes.org).

Project Co-Lead for the "Dynamic Sun" video wall exhibit at the National Air and Space Museum, Washington, DC., Opening Date: March 18, 2015.

Artist, Designer, and Technical Consultant for the "Solar Video Wall" installation in the "Tools: Extending Beyond our Reach" exhibit at the Cooper-Hewitt, Smithsonian National Design Museum, New York, NY, Dates: December 11, 2014 - May 25, 2015.

Co-Manager of the NSF-funded Solar Physics Research Experiences for Undergraduates (REU) program at the Harvard-Smithsonian Center for Astrophysics (2010-2019). Dr. Winter helped organize and oversee the ten-week summer program involving eight undergraduate interns and 12 research supervisors.

Designer and Project Manager of the video wall at the Solar Mission Operations Center.

## RECENT TALKS

"The Eclipse Soundscapes Project", Winter, H.D. 2018. International Astronomy Union, Vienna, Austria. Invited presentation and demonstrations as part of the Inspiring Stars diversity and inclusion program.

"Case Study: Harnessing Multi-Sensory Technologies for Inclusion in Museum Exhibits: The Eclipse Soundscapes Project", Winter, H.D. 2018. American Alliance of Museums Annual meeting. Invited talk.

"From Big Data to Big Art", Winter, H.D. 2015. Art, Technology, Psyche workshop, Harvard University, Cambridge, MA. Invited talk.



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