

## Devin Short

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Doctoral Candidate / Department of History

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## EDUCATION

Ph.D., History / University of Washington, 2022 (projected)

ABD December 2020

Dissertation: *Leaving the Realm of Little Science: Climate Change and Computer Modeling in the United States*

Advisor: Bruce Hevly

Exam Fields / Advisors:

History of Physics / Bruce Hevly

Twentieth Century United States / Margaret O'Mara

Philosophy of Physics / Benjamin Feintzeig

History of Medicine in the Global South / Adam Warren

M.A., History / University of Washington, 2018

M.Sc., Chemistry / Simon Fraser University, 2018

Thesis: *Nuclear Isobar Separation for Penning Trap Mass Measurements at TRIUMF*

B.Sc., Physics / University of Washington, 2012

## AWARDS AND HONORS

American Meteorological Society Graduate Fellowship in the History of Science / 2021

Power Prize Honorable Mention for outstanding history graduate student essay / 2021

UW History Department Digital History Fellowship / 2021

UW History Department Digital History Fellowship / 2020

UW History Department Digital History Fellowship / 2018

Rondeau Evans Fellowship / 2016-2017

Simon Fraser University Chemistry Alumni Graduate Scholarship / 2016

US Department of Energy Spring Undergraduate Laboratory Internship / 2010

## PUBLICATIONS

### Refereed articles

E. Leistenschneider et al., "Diversifying Beam Species through Decay and Recapture Ion Trapping: a Demonstrative Experiment at TITAN-EBIT," *Journal of Physics G: Nuclear and Particle Physics* 47 (2020): 045113.

C. Babcock et al., "Mass measurements of neutron-rich indium isotopes toward the  $N = 82$  shell closure," *Physical Review C* 97 (2018): 024312.

E. Leistenschneider et al., "Dawning of the  $N = 32$  shell closure seen through precision mass measurements of neutron-rich titanium isotopes," *Physical Review Letters* 120 (2018): 062503.

D. Lascar et al., "Precision mass measurements of  $^{125-127}\text{Cd}$  isotopes and isomers approaching the  $N = 82$  closed shell," *Physical Review C* 96 (2017): 044323.

- A. T. Gallant et al., “Mass determination near  $N = 20$  for Al and Na isotopes,” *Physical Review C* 96 (2017): 024325.
- S. Triambak et al., “The  $2^+_1 \rightarrow 3^+_1 \gamma$  width in  $^{22}\text{Na}$  and second class currents,” *Physical Review C* 95 (2017): 035501.
- D. Lascar et al., “Improvements to TITAN’s mass measurement and decay spectroscopy capabilities,” *Nuclear Instruments and Methods B* 376 (2016): 292-297.
- Christian Jesch et al., “The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF,” *Hyperfine Interactions* 235 (2015): 97-106.
- Wolfgang R Pläß et al., “High-performance multiple-reflection time-of-flight mass spectrometers for research with exotic nuclei and for analytical mass spectrometry,” *Physica Scripta* 2015 (2015): 014069.
- C. Wrede et al., “Preparation of  $^{20}\text{Ne}$ ,  $^{24}\text{Mg}$ ,  $^{28}\text{Si}$ , and  $^{36}\text{Ar}$  targets by ion implantation into thin carbon foils,” *Nuclear Instruments and Methods B* 268 (2010): 3482-3484.

### Non-refereed publications

- Devin Short, “‘But Dr. Von Neumann, We Are Programmers.’ Betty Holberton and the Stop Instruction,” *Lady Science* (November 2021). [in press]
- C. Hornung et al., “A Laser Ablation Carbon Cluster Ion Source and an RFQ-based Switchyard for the FRS Ion Catcher,” *GSI Helmholtz Centre for Heavy Ion Research Annual Report 2014-1* (2014): 105.
- D. A. Short et al., “M1 width of the  $2^+_1$  state in  $^{22}\text{Na}$  and searches for tensor contributions to beta decays,” *CENPA Annual Report 2010-2011* (2011): 55.
- C. Wrede et al., “Development of thin ion-implanted targets for precision studies,” *CENPA Annual Report 2010-2011* (2011): 49.
- S. Triambak et al., “M1 width of the  $2^+_1$  state in  $^{22}\text{Na}$  and searches for tensor contributions to beta decays,” *CENPA Annual Report 2009-2010* (2010): 52.

### Digital humanities projects

- Devin Short, “Bibliograph: A Python package for visualizing and analyzing bibliographic data,” <https://github.com/shortorian/bibliograph>

## PRESENTATIONS

### Conferences

- “Technical Expertise and Doing History” (roundtable participant)  
History of Science Society and Society for the History of Technology Joint Annual Meeting / New Orleans, November 2021
- “Showing our work: the role of history in the philosophy of climate modeling”  
Workshop on Integrated History and Philosophy of Climate Data / University of Bern, August 2021.
- “Leaving the Realm of Little Science: Climate Change and Computer Modeling in the United States” in panel *Weathering the West: Exploring Climate, Weather, and Human Experience in Western History* (participant) / Western History Association Annual Meeting / Online, October 2020.

“This Bounded World: Analogical Reasoning and Nineteenth-Century British Physics”  
Columbia History of Science Group Annual Meeting / Friday Harbor Labs, University  
of Washington, March 2018.

### **Guest lectures**

“Controlling the Atmosphere in the Cold War”

HSTAA 345, *US Political & Economic History, 1920 to Present* / University of  
Washington, May 2019.

“Where do we go from here? Global challenges in the histories of computing and climate  
science” / HSTAA 317, *History of the Digital Age* / University of Washington (online),  
March 2021.

### **Posters**

Devin Short et al., “M1 width of the  $2^+_1$  state in  $^{22}\text{Na}$  and searches for tensor contributions to  
beta decays,” American Physical Society, 2011 Fall Meeting of the APS Division of  
Nuclear Physics, October 26-29, 2011, abstract id. EA.120.

## **TEACHING EXPERIENCE**

### **Advising**

Project Shawarma, iSchool, University of Washington

Led five-member team designing and developing a database for network analysis of  
citations and acknowledgements in scientific papers.

Summer 2021, co-advisor: Greg Hay

### **Teaching assistant**

Department of History, University of Washington

History of Mexico (HSTLAC 282), Spring 2021 (online)

History of the Digital Age (HSTAA 317), Winter 2021 (online)

Race and American History (HSTAA 231), Fall 2019

Race, Gender, and Class in Latin America and the Caribbean (HSTLAC 185), Fall 2018

American Military History (HSTAA 212), Spring 2018

Peoples of the United States (HSTAA 105), Winter 2018

American Citizenship (HSTAA 110), Fall 2017

Department of Chemistry, Simon Fraser University

Science and Society (SCI 300), Spring 2015

### **Grader**

Department of History, University of Washington

American Military History (HSTAA 212), Spring 2020 (online)

Nazi Germany and the Holocaust (HSTEU 234), Winter 2020

US Political and Economic History, 1920 – Present (HSTAA 345), Spring 2019

Nazi Germany and the Holocaust (HSTEU 234), Winter 2019

## **RESEARCH EXPERIENCE**

Research Assistant, Department of History / University of Washington

Principal Investigator: Margaret O'Mara

Subject: history of technology

Summer 2020

Student Hourly, School of Oceanography / University of Washington

Principal Investigators: Kyle Armour, Gerard Roe

Subject: climate modeling

Summer 2019

Research Assistant, Department of Chemistry / Simon Fraser University

Worked in the TITAN group at TRIUMF

Principal Investigators: Corina Andreoiu, Jens Dilling

Subject: atomic mass spectrometry

Summer 2014 – Fall 2015

Summer 2015 – Summer 2016

Intern, TRIUMF's Ion Traps for Atomic and Nuclear Science / TRIUMF

Worked in Germany with the IONAS group at Justus-Liebig-Universität Gießen

Principal Investigators: Jens Dilling, Wolfgang Plaß

Subject: atomic mass spectrometry

Summer 2013 – Summer 2014

Student Hourly, Center for Experimental Nuclear Physics and Astrophysics

University of Washington

Principal Investigator: Alejandro Garcia

Subject: gamma ray spectroscopy, accelerator physics

Spring 2008 – Winter 2010

Summer 2010 – Spring 2012

Intern, Materials Science Division / Lawrence Berkeley National Laboratory

Principal Investigator: Robert Kaindl

Subject: ultrafast laser spectroscopy

Spring 2010

## **SERVICE**

Member, Graduate Climate Conference Organizing Committee, 2021

Officer, University of Washington History Department Graduate Liaison Committee

2020-2021 academic year

## **SUMMER SCHOOL AND WORKSHOP ATTENDANCE**

NASA/CCS/KISS Summer School on Using Satellite Observations to Advance Climate Models

NASA Jet Propulsion Laboratory (online), August 2021.

HAPP Network Summer School on Scientific Instruments and Environmental Physics

St. Cross Centre for History and Philosophy of Physics, Oxford University, August 2018.