Devin Short

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

American Meteorological Society Graduate Fellowship in the History of Science / 2021
Thomas M. Power Prize Honorable Mention / 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 $^{125\text{-}127}$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 $2^+_1 \rightarrow 3^+_1$ γ width in ^{22}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 Plaβ 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}Ne, ^{24}Mg, ^{28}Si, and ^{36}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* (2021). (accepted)

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}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}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

Talks and papers

Showing our work: the role of history in the philosophy of climate modeling (accepted)
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 / 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

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.

Controlling the Atmosphere in the Cold War
HSTAA 345, US Political & Economic History, 1920 to Present / University of Washington, May 2019.

Posters

Devin Short et al., "M1 width of the 2^{+}_{1} state in ^{22}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

Teaching assistant

Department of History, University of Washington, Seattle, WA
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, Burnaby, BC
Science and Society (SCI 300), Spring 2015

Grader

Department of History, University of Washington, Seattle, WA
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, Seattle, WA
Principal Investigator: Margaret O'Mara
Subject: history of technology
Summer 2020

Student Hourly, School of Oceanography / University of Washington, Seattle, WA
Principal Investigators: Kyle Armour, Gerard Roe
Subject: climate modeling
Summer 2019

Research Assistant, Department of Chemistry / Simon Fraser University, Burnaby, BC

Worked in the TITAN group at TRIUMF, Vancouver, BC
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, Vancouver, BC
Worked in the IONAS group at Justus-Liebig-Universität Gießen, Giessen, Germany
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, Seattle, WA
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, Berkeley, CA
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 SCHOOLS AND WORKSHOPS ATTENDED

NASA/CCS/KISS Summer School on Using Satellite Observations to Advance Climate Models (accepted) / 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.