Devin Short

Doctoral Candidate / Department of History
Research Scientist/Engineer–Senior / Department of Radiation Oncology
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EDUCATION

Ph.D., History / University of Washington (projected) 2026
Dissertation: *Leaving the Realm of Little Science: A New Approach to the History of Climate Modeling and Scientific Collaborations*
Advisor: Bruce Hevly
Exam Fields / Advisors:
History of Physics / Bruce Hevly
Twentieth Century United States History / Margaret O'Mara
Philosophy of Physics / Benjamin Feintzeig
History of Medicine in the Global South / Adam Warren
Graduate Certificate in Climate Science / University of Washington (projected) 2026
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
Simon Fraser University Chemistry Alumni Graduate Scholarship 2016
US Department of Energy Spring Undergraduate Laboratory Internship 2010

PUBLICATIONS

Refereed articles

M. P. Reiter et al., "Commissioning and Performance of TITAN's Multiple-Reflection Time-of-Flight Mass-Spectrometer and Isobar Separator," *Nuclear Instruments and Methods A* 1018 (2021): 165823. 10.1016/j.nima.2021.165823

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. 10.1088/1361-6471/ab6ee1

C. Babcock et al., "Mass measurements of neutron-rich indium isotopes toward the $N = 82$ shell closure," *Physical Review C* 97 (2018): 024312. 10.1103/PhysRevC.97.024312

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. 10.1103/PhysRevLett.120.062503

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. 10.1103/PhysRevC.96.044323

A. T. Gallant et al., "Mass determination near $N = 20$ for Al and Na isotopes," *Physical Review C* 96 (2017): 024325. 10.1103/PhysRevC.96.024325

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. 10.1103/PhysRevC.95.035501

Brian Kootte et al., "Using Electron Cooling to Help Weigh Exotic Nuclei – Progress on TITAN's Cooler PEnning Trap (CPET)," *Physics in Canada* 72 (2016): 117-119. https://pic-pac.cap.ca/index.php/Issues/showpdf/issue/v72n3.0.pdf

D. Lascar et al., "Improvements to TITAN's mass measurement and decay spectroscopy capabilities," *Nuclear Instruments and Methods B* 376 (2016): 292-297. 10.1016/j.nimb.2015.12.026

Christian Jesch et al., "The MR-TOF-MS isobar separator for the TITAN facility at TRIUMF," *Hyperfine Interactions* 235 (2015): 97-106. 10.1007/s10751-015-1184-2

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. 10.1088/0031-8949/2015/T166/014069

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. 10.1016/j.nimb.2010.09.009

Non-refereed publications

Devin Short, "Hotline Suspense," *Contingent Magazine*, March 19, 2022. https://contingentmagazine.org/2022/03/19/hotline-suspense/

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.

Book Reviews

Devin Short, review of *Game Theory and Climate Change* by Parkash Chander, H-Environment, H-Net Reviews (March 2022). https://www.h-net.org/reviews/showpdf.php?id=57199

Devin Short, review of *Restricted Data: The History of Nuclear Secrecy in the United States* by Alex Wellerstein, *British Journal for the History of Science* 55, no. 4 (2022): 525. 10.1017/S000708742200036X

DIGITAL HUMANITIES PROJECTS

Devin Short, "Bibliograph: A database system for primary source research" 2020 – Present
Hybrid relational and graph database designed around a fast data entry workflow that facilitates primary source research and network analysis with large archives.
https://github.com/shortorian/bibliograph

PRESENTATIONS

Meetings

"Finding Work: On Collaboration and the History of Climate Science" 2023
Columbia History of Science Group Annual Meeting

"Large Technical Systems: Historical and Sociological Perspectives" 2023
Meeting Places: Conversations Within and Beyond Disciplines

"Modeling Communities: Building Infrastructure for History of Climate Science" 2023
American Meteorological Society Annual Meeting

"Technical Expertise and Doing History" (roundtable participant) 2021
History of Science Society Annual Meeting (online)

"Showing our work: the role of history in the philosophy of climate modeling" 2021
Workshop on Integrated History and Philosophy of Climate Data

"Leaving the Realm of Little Science" in panel *Weathering the West* (participant) 2020
Western History Association Annual Meeting (online)

"This Bounded World: Analogical Reasoning and 19th Century British Physics" 2018
Columbia History of Science Group Annual Meeting

Guest lectures and seminars

"Scattering, simulations, and scientific work" 2023
University of Washington, History of the Digital Age (HSTAA 317)

"Picking your mess: designing a database system for historical scholarship" 2022
Institute for Historical Research Digital History Seminar
https://youtu.be/jkQqDcneiuw?t=1230

"Where do we go from here? Global challenges in histories of computing" 2021
University of Washington (online), History of the Digital Age (HSTAA 317)

"Controlling the Atmosphere in the Cold War" 2019
University of Washington, US Political and Economic History (HSTAA 345)

Posters

"M1 width of the 2^{+}_{1} state in ^{22}Na and searches for tensor contributions to beta decays" 2011
American Physical Society Division of Nuclear Physics Fall Meeting

TEACHING EXPERIENCE

Advising

Data Acquisition for Particle Accelerator Experiments — Winter & Spring quarter 2025
Electrical & Computer Engineering, University of Washington
Led undergraduate capstone project to upgrade control systems at the UW Medical Cyclotron Facility.

Project Shawarma, iSchool, University of Washington — (online) Summer 2021
Co-advisor: Greg Hay
Led five-member team designing a database for source analysis in humanities research.

Teaching assistant

Data Science Minor / University of Washington
Humanities Data Science Summer Institute — Summer 2023

Department of History / University of Washington
History of the Digital Age (HSTAA 317) — Winter 2023
History of the Atomic Bomb (HSTCMP 215) — Fall 2022
History of Mexico (HSTLAC 282) — (online) Spring 2021
History of the Digital Age (HSTAA 317) — (online) Winter 2021
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
Science in Civilization: Science in Modern Society (HSTCMP 312) — Autumn 2021
American Military History (HSTAA 212) — (online) Spring 2020
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 Scientist/Engineer–Senior / UW Medical Cyclotron Facility — 2024 – Present
Principal Investigator: Marissa Kranz
Subject: accelerator science, isotope production

Engineering Tech 2 — November 2023 – April 2024
UW Center for Experimental Nuclear Physics and Astrophysics
Principal Investigator: Brittney Dodson
Subject: accelerator science

Research Assistant / Freelance — September 2022
Principal Investigator: Danah Boyd
Subject: Book project on the US census

Research Assistant / University of Washington Department of History — Summer 2020
Principal Investigator: Margaret O'Mara
Subject: history of technology

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

Research Assistant / Simon Fraser University, Department of Chemistry — 2014 – 2016
Worked at TRIUMF in Vancouver, Canada
Principal Investigators: Corina Andreoiu, Jens Dilling
Subject: atomic mass spectrometry

Intern / TRIUMF, TRIUMF's Ion Traps for Atomic and Nuclear Science — 2013 – 2014
Worked at Justus-Liebig-Universität Gießen in Gießen, Germany
Principal Investigators: Jens Dilling, Wolfgang Plaß
Subject: atomic mass spectrometry

Student Hourly / UW Center for Experimental Nuclear Physics and Astrophysics — 2008 – 2012
Principal Investigator: Alejandro Garcia
Subject: gamma ray spectroscopy, accelerator physics

Intern / Lawrence Berkeley National Laboratory, Materials Science Division — Spring 2010
Principal Investigator: Robert Kaindl
Subject: ultrafast laser spectroscopy

SERVICE

Session chair / 21st History Symposium of the American Meteorological Society — 2023
Jurist / DIY Methods Conference — 2022
Officer / UW History Department Graduate Liaison Committee — 2020–2022
Member / Graduate Climate Conference Organizing Committee — 2021

SUMMER SCHOOL AND WORKSHOP ATTENDANCE

NASA Transform to Open Science OpenCore Workshop — 2023
American Meteorological Society Annual Meeting

UW Program on Climate Change Summer Institute: Pathways to Net Zero — 2022
UW Friday Harbor Labs

NASA/CCS/KISS Summer School Satellite Observations in Climate Modeling — 2021
NASA Jet Propulsion Laboratory (online)

HAPP Network Summer School on Scientific Instruments and Environmental Physics — 2018
St. Cross Centre for History and Philosophy of Physics