

# **Joanna Behrman**

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Center for History of Physics  
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## **Professional Positions:**

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|--------------|---|-------------------------------------|
| 2020-Present | Assistant Public Historian,                     | American Institute of Physics (AIP) |
| 2020         | NASA Heliophysics Oral History Graduate Fellow, | AIP                                 |
| 2014-2020    | Graduate Student and Ph.D. Candidate            | Johns Hopkins University            |
| 2015         | Graduate Research Fellow,                       | AIP                                 |

## **Education:**

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| 2020 | Ph.D. in the History of Science and Technology, | Johns Hopkins University |
| 2014 | M.A. in Social Sciences,                        | University of Chicago    |
| 2013 | B.A. in Physics, Cum Laude with High Honors,    | Harvard University       |

## **Research Publications:**

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In progress: Book manuscript tentatively entitled *The Other Physicists: Building Women's Physics Communities* based on the Ph.D. dissertation *The Other Physicists: Female Physicists at Women's Colleges 1870-1940*.

Forthcoming: Sections of the history of the Johns Hopkins University Physics Department, including Chapter 1 "Building a Department," Chapter 2 "Gaining Momentum," and biographies of Henry Rowland and Robert W. Wood. Christine Wenc, ed.

Forthcoming: "Sarah Frances Whiting, Pioneering Laboratory Instruction in Astronomy." Accepted by the *American Journal of Physics*. [peer-reviewed]

Joanna Behrman. "Physics ... is for Girls? *Physics Today* 75, no. 8, (August 2022), 30-36. Featured cover article. <https://doi.org/10.1063/PT.3.5061>. [peer-reviewed]

Joanna Behrman. "The Personal is Professional: Margaret Maltby's Life in Physics." In *Biographies in the History of Physics: Actors, Objects, and Organizations*. Christian Forstner, Dieter Hoffmann, and Mark Walker eds. Heidelberg: Springer, 2020.

J.F. Behrman. "Manuals, Handbooks, and Recipes," in *Between Making and Knowing: Tools in Materials Research*. Cyrus Mody and Joseph Martin, eds. Encyclopedia of the Development and History of Materials Science. World Scientific Publishing Company, 2020. <<https://doi.org/10.1142/11482>>.

Joanna Behrman. "Domesticating Physics." *Physics Today* 71, no. 5 (May 2018), 50-56. Featured cover article. <<https://doi.org/10.1063/PT.3.3922>>. [peer-reviewed]

- Republished in *Parity* (Maruzen Publishing Co.) March 2019. Translated by Akimori Hosoi. パリティ 2019年3月号 <<https://www.maruzen-publishing.co.jp/item/b303275.html>>

- Also republished in *Physics Bimonthly* (a publication of the Physics Society of Taiwan). March 2019. Translated by Chang Yunhui. <[http://pb.ps-taiwan.org/catalog/ins.php?index\\_id=430&index\\_m1\\_id=5](http://pb.ps-taiwan.org/catalog/ins.php?index_id=430&index_m1_id=5)>

Joanna Behrman. "Domesticating Physics: Introductory Physics Textbooks for Women in Home Economics in the United States, 1914-1955." *History of Education* 46, no. 2 (Spring 2017): 193-209. <<https://doi.org/10.1080/0046760X.2016.1273404>>. [peer-reviewed]

- Republished as a chapter in *Science, Technologies and Material Culture in the History of Education* (Routledge, 2018). ISBN: 978-1-138-35872-0.
- Webpage: <https://www.routledge.com/Science-Technologies-and-Material-Culture-in-the-History-of-Education/Ellis/p/book/9780367583781>

E.C. Behrman, R.E.F. Bonde, J.E. Steck, and J.F. Behrman, "On the Correction of Anomalous Phase Oscillation in Entanglement Witnesses Using Quantum Neural Networks," *IEEE Transactions on Neural Networks and Learning Systems*. Vol. 25, No 9, September 2014 [peer-reviewed]

## Outreach Writing:

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Joanna Behrman. "A History Mystery: Adventures Identifying People in a Photograph." *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (16 February 2023). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/history-mystery-adventures-identifying>

Joanna Behrman. "Tea, Earl Grey, Hot: January Photos of the Month." *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (6 January 2023). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/tea-earl-grey-hot>

Corinne Mona and Joanna Behrman. "Featured Oral History: George Carruthers." American Institute of Physics *History Newsletter* 54, no. 2 (Fall 2022), 22-24. [https://www.aip.org/sites/default/files/2022-12/v54n2\\_2022-singles.pdf](https://www.aip.org/sites/default/files/2022-12/v54n2_2022-singles.pdf)

Joanna Behrman. "World War I: November Photos of the Month." *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (10 November 2022). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/world-war-i>

"The Black Scientific Renaissance of the 1970s-90s: African American Scientists at Bell Laboratories." *Black History Bulletin* 85, no. 2 (Fall 2022), 9-12. <https://doi.org/10.1353/bhb.2022.0014>

Ashley Piccone and Joanna Behrman. "Tales of the Nobel Prize announcement." *Physics Today Online*. (23 September 2022). DOI:10.1063/PT.6.4.20220923a <https://physicstoday.scitation.org/doi/10.1063/PT.6.4.20220923a/full/>

Joanna Behrman. "Learning about the Early History of Astronomy through Phystory." Astronotes Column. *The Physics Teacher* 60 (September 2022), 524-525. <https://doi.org/10.1119/5.0115743>

"Pipes, Poems, and Physics: The Life of R. W. Wood." *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (27 April 2022). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/pipes-poems-and-physics>

"Photos of the Month: The USNS Kane." *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (10 December 2021). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/photos-month-usns-kane>

“New Web Exhibit on the Research Vessel Vema.” *History of Oceanography*, Official Website and Blog of the International Commission of the History of Oceanography (19 November 2021). <https://oceansciencehistory.com/2021/11/19/new-web-exhibit-on-the-research-vessel-ve-ma/>

“Inaugural Helleman Fellows Selected.” American Institute of Physics *History Newsletter* 53, no. 2 (Fall 2021), 24-25. [https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n2\\_2021-digital-singles.pdf](https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n2_2021-digital-singles.pdf)

“Featured Oral History Interview - Benjamin Peery, Jr.” American Institute of Physics *History Newsletter* 53, no. 2 (Fall 2021), 8-10. [https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n2\\_2021-digital-singles.pdf](https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n2_2021-digital-singles.pdf)

“Photos of the Month: Back to School.” *Ex Libris Universum*, Blog of the Niels Bohr Library and Archives, American Institute of Physics (14 September 2021). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/potm-back-school>

Stephen McGuire and Joanna Behrman. “Featured Oral History.” American Institute of Physics *History Newsletter* 53, no. 1 (Spring 2021), 19-22. [https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n1\\_2021-f-digitalsingles.pdf](https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v53n1_2021-f-digitalsingles.pdf)

Joanna Behrman. “Optimism and Other Poems: A Deep Dive into an NBLA Acquisition.” *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (13 April 2021). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/optimism-and-other-poems>

“Book or Movie? Reviewing Book & Movie Pairs for Women's History Month.” *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (10 March 2021). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/book-or-movie>

“Welcome Message from the Assistant Public Historian.” American Institute of Physics *History Newsletter* 52, no. 2 (Fall 2020), 10-11. [https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v52n2\\_2020-f-digital.pdf](https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v52n2_2020-f-digital.pdf)

“Remembering Trinity, Seventy-Five Years Later.” *Ex Libris Universum*, Blog of the Niels Bohr Library & Archives, American Institute of Physics (10 July 2020). <https://www.aip.org/history-programs/niels-bohr-library/ex-libris-universum/remembering-trinity-test-seventy-five-years>.

“Optimism and Other Physicists: Notes from the Niels Bohr Library.” American Institute of Physics *History Newsletter* 52, no. 1 (Spring 2020), 8-9. [https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v52n1\\_2020-FINAL.pdf](https://www.aip.org/sites/default/files/history/files/newsletter-pdf/v52n1_2020-FINAL.pdf)

## **Book Reviews:**

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Joanna Behrman. Review of Dresvina, Juliana, ed., *Thanks for Typing: Remembering Forgotten Women in History*. H-Sci-Med-Tech, H-Net Reviews. April, 2023. <https://www.h-net.org/reviews/showrev.php?id=57986>

Joanna Behrman. “A Survey of Women in Astronomy.” Book Review of Virginia Trimble and David A. Weintraub, eds. “The Sky is for Everyone: Women Astronomers in their own Words.” (Princeton: Princeton University Press, 2022.) *Physics Today* 76, no. 1 (January 2023): 52-53. <https://doi.org/10.1063/PT.3.5160>

Joanna Behrman. "Portrait of a Groundbreaking Astronomer," Book Review of Jacqueline Mitton and Simon Mitton. "Vera Rubin: A Life." (Cambridge, MA: Harvard University Press, 2021. 320 pp.) *Science* 371, no. 6531 (19 Feb 2021): 788. DOI: 10.1126/science.abg1818  
<https://blogs.sciencemag.org/books/2021/02/17/vera-rubin-a-life/>

Joanna Behrman. Book Review of Donovan Moore. "What Stars Are Made Of: The Life of Cecilia Payne-Gaposchkin." (Cambridge, MA: Harvard University Press, 2020. 320 Pp.) *History of Education Quarterly* 61, no. 1 (2021): 106–8. doi:10.1017/heq.2020.69.

## **Recent Presentations:**

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"When Physics was for Girls: Overturning Gender Stereotypes in the History of Physics Education." University of Richmond. Department of Physics Junior/Senior Seminar class. Invited. 25 January 2023.

"More than Marie Curie: Centering Women in the History of Physics." University of Richmond. Sponsored by the Dept. of Physics, Dept. of Education, Dept. of History, and the Women, Gender, and Sexuality Studies program. Invited. 24 January 2023. Covered in *The Collegian*, the University of Richmond's student newspaper: <https://www.thecollegianur.com/article/2023/01/women-in-physics-take-center-stage-at-ur>

"When Physics was a Girl's Subject." American Physical Society Editors' Colloquium. Virtual. 5 December 2022.

Panelist on "History: The Good, the Bad, and the Ugly." Dine N Discuss. Physics Education Research Conference 2022. Virtual. 13 July 2022.

"Ladies in the Laboratory: A Brief History of U.S. Women in Science." Science on Tap, Philadelphia. Invited. Virtual. 11 April 2022. [https://youtu.be/0TGCHehA3\\_E](https://youtu.be/0TGCHehA3_E)

"Selling Physics Education to Women in the Early Twentieth Century." Clemson University Department of Engineering and Science Education. Invited. Virtual. 8 April 2022.

J. F. Behrman. "History of Physics at Women's Colleges." American Physical Society March Meeting 2022 in Chicago. Invited. 16 March 2022.

J. F. Behrman. "When Physics was a Girl's Subject." Invited speaker for the Department of Physics & Astronomy Colloquium Series, San Francisco State University. Invited. Virtual. 14 February 2022.

Panelist on "Open discussion on James Webb Space Telescope." American Association of Physics Teachers. Webinar. 27 January 2022.

J.F. Behrman "Teaching a Diverse History of Physics." Invited talk for the American Association of Physics Teachers, 2022 Winter Meeting. Virtual. 7 January 2022.

J.F. Behrman. "Importance of the Islamic Golden Age for Physics and Astronomy." Invited talk for the session "History of Underrepresented Groups in Physics." American Association of Physics Teachers, 2021 Summer Meeting. Virtual. 2 August 2021.

J. F. Behrman. Brown bag talk on my book project *The Other Physicists: A Collective Biography of Women in Physics Before WWII*. American Philosophical Society. Virtual. 9 March 2021.

Panelist on "Careers in Public History Roundtable." Virtual HSTM. Virtual. 24 February 2021.

J. F. Behrman. "Thinking Through Things: Physics Education, Occupations, and Materiality at Wellesley College." Developments in Physics Teaching & Learning in Higher Education During Last 100 Years Conference. Institute of Physics. Virtual. 10 November 2020.

J. F. Behrman. "Thinking Through Things: Physics Education, Occupations, and Materiality at Wellesley College." Pedagogy, Popularization, and the Public Understanding of Science Conference, Science History Institute. Virtual. 22 October 2020

Roundtable "Oral Histories of Science and the AIP/NASA Heliophysics Oral History Project," Oral History Association Annual Meeting. Virtual. 20 October 2020.

[Canceled due to COVID-19.] "The Presence (and Absence) of Women in Science." Invited Saturday Speaker Lecture. Science History Institute. March 15, 2020.

<https://www.sciencehistory.org/event/the-presence-and-absence-of-women-in-science>

[Postponed due to COVID-19.] "'Cussedly Independent:' Historic Women of the Wilson College Physics Department." Invited Lecture for Women's History Month and Wilson College's Sesquicentennial. March 23, 2020.

<https://www.wilson.edu/common-hour-%E2%80%9Ccussedly-independent%E2%80%9D>

J.F. Behrman. "Technology and Materiality in Physics Instruction at Historic Wellesley College." American Association of Physics Teachers, Winter Meeting 2020. Orlando, FL. January 21, 2020.

J. F. Behrman. "Too Many Cook(books) Spoil the Broth: Handbooks as Objects of Disciplinary Division." International Conference on the History of Chemistry in Maastricht. August 1, 2019.

J.F. Behrman, "Too Many Cook(books) Spoil the Broth: Handbooks as Objects of Disciplinary Division." History of Science Society Annual Meeting in Utrecht. July 24, 2019.

J.F. Behrman "Bridging Physics and the Household: Madalyn Avery's Career at K-State." The 2019 Ernest Fox Nichols Distinguished Alumni Lecture at Kansas State University. March 25, 2019. Recorded online: <https://www.phys.ksu.edu/alumni/nichols/2019/index.html>

J.F. Behrman. "The Laboratory as a Historically Gendered Space." Invited talk for the session "Gender Considerations in the Laboratory." AAPT Winter Meeting 2019 in Houston, TX. January 14, 2019.

## Teaching:

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\*All courses taught at Johns Hopkins University unless otherwise noted.

Instructor of Record:

Ladies in the Laboratory: Science and Gender in U.S. History

*Fall 2019*

Teaching Assistant:

Freshman Seminar: Campus Life, Now and Then

*Spring 2018*

History of Science: Antiquity to Renaissance

*Fall 2017*

Freshman Seminar: History of Johns Hopkins Medicine

*Spring 2017*

Science and Technology in Slave Regimes

*Fall 2016*

|   |                    |
|---|--------------------|
| Rise of Modern Science                                      | <i>Spring 2016</i> |
| Scientific Revolution                                       | <i>Fall 2015</i>   |
| Physics for Scientists I – Wichita State University         | <i>Summer 2010</i> |
| Other:  |                    |
| Graduate Research Assistant – American Institute of Physics | <i>Summer 2015</i> |
| Physics Tutor – Harvard University                          | <i>Fall 2011</i>   |

## **Service:**

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Reviewed articles for *Physics Today*, *The Physics Teacher*, the *Nordic Journal of Education History*, and *Technology and Culture*.

Early Career Member-at-Large for the American Physical Society Forum on History and Philosophy of Physics. April 2023 – Present. Service on the Program Committee and the Quantum Century Committee.

Member of conference committee for the 2023 American Institute of Physics Early Career Conference in Copenhagen, Denmark.

Reviewed submissions to the National Women’s Hall of Fame 2022

[Canceled due to Covid-19] Chair of panel for Berkshire Women’s History Conference May 2020

Session organizer and chair, American Association of Physics Teachers Winter Meeting 2020 – “History of NASA.” January 20, 2020.

Session chair, American Association of Physics Teachers Winter Meeting 2020 – “Perspectives on Environmental Science and Physics.” January 19, 2020.

AAPT History and Philosophy of Physics committee – three year term, Jan 2019 – Jan. 2022  
Vice Chair of Committee 2019, Chair of Committee 2020

Member of conference committee and session chair for the 2018 American Institute of Physics Early Career Conference in San Sabastian, Spain.

Session organizer and chair, American Association of Physics Teachers Winter Meeting 2018 – “Science and the Great War.” January 8, 2018.

Session organizer and chair, History of Science Society Annual Meeting 2017, “Education and its Audiences.” November 10, 2017.

## **Grants and Fellowships:**

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Early Career Workshop at the Center for Women’s History, New York Historical Society 2021-2022

Graduate Oral History Research Fellow at the American Institute of Physics. Worked on NASA Heliophysics Oral History Project, January 2020-July 2020.

Graduate Fellow, Center for Medical Humanities and Social Medicine, Johns Hopkins University 2019-2020

Dean’s Teaching Fellowship, Johns Hopkins University

Semifinalist, National Academy of Education Doctoral Fellowship

Research Fellow, 2017-2018, with the Consortium for the History of Science, Technology, and Medicine

Grants-in-aid from the Friends of the Center for History of Physics, American Institute of Physics Chemical Heritage Foundation (now the Science History Institute) – Travel Grant

Owen Fellowship, Johns Hopkins University

Pforzheimer Student Fellowship, Radcliffe Institute of Advanced Study

Harvard College Research Program Fellowship (Kersten Fund)

Kupcinet-Getz International Science School Fellowship, Weizmann Institute

## **Society Memberships:**

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History of Science Society, History of Education Society (UK), American Physical Society, American Association of Physics Teachers, National Council on Public History