

Curriculum Vitae

Jonson Miller	History and Politics
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Professional Positions

Drexel University, Department of History and Politics

Associate Teaching Professor:	Since September 2013
Assistant Teaching Professor:	June 2009 to September 2013
Instructor:	September 2007 to June 2009
Adjunct Professor:	January 2007 to September 2007

Virginia Polytechnic Institute, Department of History

Instructor:	Summer 2006
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Education

Ph.D., Virginia Polytechnic Institute, Science and Technology Studies, 2008

M.S., University of Wisconsin, Madison, Geology, 2000

B.S., West Virginia University, Geology, 1998

Publications

Peer-Review Articles

- Miller, Jonson. "Pathways and Purposes of the 'French Tradition' of Engineering in Antebellum America: The Case of the Virginia Military Institute." *Engineering Studies* 5 (2013): 117-136.
- Downey, Gary Lee, Juan C. Lucena, Barbara Moskal, Thomas Bigley, Chris Hays, Brent Jesiek, Liam Kelly, Jane Lehr, Jonson Miller, Amy Nichols-Belo, Sharon Ruff, and Rosamond Parkhurst. "The Globally Competent Engineer: Working Effectively with People Who Define Problems Differently." *Journal of Engineering Education* 95 (April 2006): 107-122.

Other Scholarly Articles

- Downey, Gary Lee, Juan C. Lucena, Barbara Moskal, Thomas Bigley, Chris Hays, Brent Jesiek, Liam Kelly, Jane Lehr, Jonson Miller, and Amy Nichols-Belo. "Engineering Cultures: Expanding the Engineering Method for Global Problem Solvers." *Proceedings of the 4th ASEE/AaeE Global Colloquium on Engineering Education*, Sydney Australia, September 26-30, 2005.
- Augustine, Donna, Barbara Bekken, Susan Eriksson, Heather Harris, Muriel Lederman, Jane Lehr, Jonson Miller, Barbara Reeves, and Chikako Takeshita. "What is a Feminist Pedagogy for the Sciences?" *Center for Excellence in Undergraduate Teaching Newsletter* (Spring, 2002): 17-19.

Commissioned Works

- Miller, Jonson. "Overview of Engineering and Technical Education and Work in the United States." National Academy of Engineering Committee on K-12 Engineering Education. Submitted 13 May 2008. Was incorporated into the following NAE report: National Academy of Engineering and National Research Council. *Engineering in K-12 Education:*

Understanding the Status and Improving the Prospects. Washington, DC: National Academies Press, 2009.

Book Reviews

Miller, Jonson. Review of *Alexander Dallas Bache: Building the American Nation through Science and Education in the Nineteenth Century*. *Technology and Culture* 54 (2013): 191-193.

Non-Print Media

Zallen, Doris, Executive Producer, and Jonson Miller, Associate Producer. *Food Frights: Genetically Modified Foods and Food Safety*. Produced by Video Broadcast Service of Virginia Tech. 50 min. Public Broadcast System Adult Learning Service, 2003. Videocassette.

Boler, Megan, Jonson Miller, and Brent Jesiek. *Critical Media Literacy in Times of War*. Virginia Tech. www.tandl.vt.edu/Foundations/mediaproject/home.htm [no longer active]. 2002.

Theses and Dissertations

Miller, Jonson. "Citizen Soldiers and Professional Engineers: The Antebellum Engineering Culture of the Virginia Military Institute." PhD diss., Virginia Polytechnic Institute and State University, 2008

Miller, Jonson. "Glacial Chronology and Stratigraphy of Central Southern Wisconsin." MS thesis, University of Wisconsin-Madison, 2000.

Conference Panels, Posters, and Presentations

Miller, Jonson. "Improving Freshmen Performance in Large-Lecture Courses in Fifteen Minutes." CIDER Conference on Higher Education Pedagogy, Blacksburg, VA, February 5-7, 2014.

Miller, Jonson, panelist. "Book Panel: Historical Understandings of Equity in Science Education: A Discussion of *Race, Rigor, and Selectivity in U.S. Engineering: The History of an Occupational Color Line*." History of Education Society, Cambridge, MA, November 4-7, 2010.

Miller, Jonson. "The Origins of the Virginia Military Institute and the Southern Military School Tradition in Virginia's Antebellum Sectional Tensions." History of Education Society, Philadelphia, PA, October 22-25, 2009.

Miller, Jonson. "Citizen Soldiers and Professional Engineers: The White Manhood of an Antebellum Engineering Professionalism at the Virginia Military Institute." Science, Technology, and the Historical Influence of Race, Philadelphia, PA, March 8-10, 2007

Panel co-organizer. "Engineering Education and Professionalism in the United States." Society for the History of Technology, Las Vegas, NV, October 12-15, 2006.

Miller, Jonson. "Citizen Soldiers and Professional Engineers: Constructing Engineering Professional Identity at the Virginia Military Institute, 1834-1851." Society for the History of Technology, Las Vegas, NV, October 12-15, 2006.

Miller, Jonson. "Race, Class, Gender, and Knowledge in Early 19th-Century Engineering Education in the Southern US." Society for Social Studies of Science, Pasadena, CA, October 21, 2005.

- Downey, Gary Lee, Juan C. Lucena, Barbara Moskal, Thomas Bigley, Chris Hays, Brent Jesiek, Liam Kelly, Jane Lehr, Jonson Miller, and Amy Nichols-Belo. "Engineering Cultures: Expanding the Engineering Method for Global Problem Solvers." *ASEE/AaeE Global Colloquium on Engineering Education*, Sydney Australia, September 26-30, 2005.
- Miller, Jonson. "19th Century Engineering Education, Citizenship, and White Industrial Class Masculinity at the Virginia Military Institute, Lexington, Virginia, USA." Society for the Social Studies of Science, Paris, France, August 26, 2004.
- Miller, Jonson. "Globalization, Technological Determinism, and the Revolution in Military Affairs." Science and Technology in Context: An Interdisciplinary Graduate Student Conference, American Association for the Advancement of Science, Washington, D.C., April 25, 2004.
- Miller, Jonson. "Nineteenth Century Technical Education and White 'Industrial' Class Masculinity at the Virginia Military Institute." Popular Culture Association/American Culture Association, San Antonio, TX, April 7, 2004.
- Miller, Jonson. "Rendering the Land Legible: Federal Enrollment of Geology in Enforcing Land Use Policy in the American West During the Late 19th Century." Mephistos, Virginia Tech, Blacksburg, VA. March 15, 2002.
- Miller, Jonson. "Late Pennsylvanian pedogenic environments in the central Appalachian basin and implications for climatic change." Geological Sciences Student Research Symposium, Virginia Tech, Blacksburg, VA. March 23, 2001.
- Miller, Jonson. "A magnetically reversed till in southern Wisconsin." Geological Society of America – North Central Section, Champaign-Urbana, IL. April 7, 2000.

Teaching

Student Research Advising

Drexel University, Department of History and Politics

- Charlton, Ian. "Innovations in Worker Discipline at Dyottville: Producing Operatives to Produce Glass." BS thesis, Drexel University, 2011.
- Ruth, Kristopher. "State Raised Militias During World War II: A Case Study of Pennsylvania's Reserve Defense Corps." BS thesis, Drexel University, 2011.

Teaching Experience

Drexel University, Department of History and Politics

- HIST 162: Themes in World Civilization II
 HIST 163: Themes in World Civilization III
 HIST 201: US History to 1815
 HIST 202: US History, 1815-1900
 HIST 203: US History Since 1900
 HIST 203: US History Since 1900 Online
 HIST 230: US Military History I
 HIST 231: US Military History II
 HIST 285: Technology in Historical Perspective
 HIST 292: Technology in American Life
 HIST 298: Special Studies: American Expansionism

HIST 298: Independent Study: Historiography of the American Revolution
HIST 298: Independent Study: The Revolution in Connecticut and New York
HIST 298: Independent Study: American Social History before 1865
HIST 591: Themes in the History of Technology: Technology, Progress, and Determinism
HIST 591: Themes in the History of Technology: Race and Reason
HNRS 200: Introduction to the Honors Program

Delaware County Community College, Broomall, PA

Through a cooperative program with Drexel University
HIST 285: Technology in Historical Perspective

Virginia Polytechnic Institute, Blacksburg, VA: Department of History

HIST/STS 3716: History of Technology II

Virginia Polytechnic Institute, Blacksburg, VA: Women's Studies Program

WS/STS 4704: Gender and Science
WS 1824: Introduction to Women's Studies

Virginia Polytechnic Institute, Blacksburg, VA: Science and Technology in Society

STS/HIST 2054: Engineering Cultures

Teaching Experience – Teaching Assistant

Virginia Polytechnic Institute, Blacksburg, VA: Science and Technology in Society

STS/HIST 2054: Engineering Cultures
STS 1504: Introduction to Humanities, Science, and Technology

Virginia Polytechnic Institute, Blacksburg, VA: Department of Geosciences

GEOL 3114: Introduction to Meteorology

University of Wisconsin, Madison, WI: Department of Geology and Geophysics

GEOL/GEOG 320: Geomorphology
GEOL 101: General Geology

Teaching Awards

Drexel Center for Academic Excellence Teaching Fellow, 2010-2013
XCaliber Award, for a team teaching with technology
Virginia Tech, 2003

Research Awards

Outstanding Dissertation in Social Sciences and Humanities
Virginia Tech, 2008-2009
College of Liberal Arts and Human Sciences Graduate Student Endowed Scholarship
Virginia Tech, 2005-2006

Weeks Research Assistantship

Includes two semesters and one summer of stipend to support research activities
University of Wisconsin, Department of Geology and Geophysics, 1998-2000

Service – Drexel University

Service to the University

Judge, University Research Day (2012)

I volunteered to serve as a judge to evaluate student research presentations. Judge evaluations are used by a committee to award prizes for the best research in several categories.

Teaching Fellow, Drexel Center for Academic Excellence (since 2010)

As a Teaching Fellow, I participate in the new-faculty orientation and other events to help promote effective teaching. I have also served on a committee to evaluate proposals for DCAE Faculty Learning Communities (2012, 2013).

Faculty advisor, Drexel University Pagan Alliance (Fall 2011-Summer 2013)

Faculty advisor, Drexel University College Republicans (since Spring 2012)

Faculty advisor, Dragons for Palestine (since Fall 2012)

Service to the College of Arts and Sciences

Judge, College of Arts and Sciences Research Day (2011, 2013)

I volunteered to serve as a judge to evaluate student research presentations. Judge evaluations are used by a committee to award prizes for the best research in several categories.

Service to the Department of History and Politics

Acting Director of Undergraduate Studies (Winter and Spring 2014)

I advise history and political science majors, clear students for graduation, coordinate with other programs on related programs, approve course overrides and study abroad and transfer courses, communicate with students about relevant opportunities and activities, coordinate our department's Honors Day awards, and serve as the department delegate to the college Assessment Committee.

Curriculum Working Group (2013-2014 year)

Develop proposals for curriculum reform.

Mentoring of New Faculty (Since Fall 2013)

I informally mentor new faculty on teaching, including construction of syllabi, adapting to Drexel's teaching environment, and development of assignments.

Co-Chair, Teaching Faculty Committee (Spring 2012 to Winter 2013)

This committee is examining alternatives to hiring teaching faculty to fulfill our department's teaching obligations.

Science, Technology, and Society Program Committee (Summer 2011 to Summer 2012)

As a member of this committee, I reviewed applications of prospective students and made recommendations to the program director on their admission.

Thesis advisor

I have advised or co-advised two students on their bachelor's theses and one on her master's thesis. See "Teaching Experience" for details.

Raymond M. Lorantas Scholarship Committee (2008-2012)

As a member of this committee, I reviewed submissions for and helped determine the awarding of a prize for the best undergraduate paper on history of a region outside of the US, Canada, and Western Europe.

Undergraduate Essay Prize Committee, (2007-2008)

As a member of this committee, I reviewed submissions for and helped determine the awarding of a prize for the best undergraduate paper in history or political science.

Service – Virginia Tech

Service to the University

Founder, Co-coordinator, VT Research in Engineering Studies Group (2004-2006)

I founded this research and discussion group to facilitate communication and collaboration on issues related to engineering. Students and faculty from multiple colleges and departments participated. We held regular meetings, at which we shared our own research or discussed other research and developments in engineering.

Science and Technology Studies Delegate, Graduate Student Assembly (2003-2004)

I was elected by the STS graduate students to represent their concerns to VT's Graduate Student Assembly.

Service to the Department of Science and Technology in Society

Secretary, STS Graduate Student Organization (2005-2006)

The organization was recognized by the department as the official representative body for STS graduate students. As secretary, I kept minutes of the organization's meetings and facilitated communication.

Graduate Student Representative, STS Policy Committee (2004-2005)

As the graduate student representative, I represented the views of the STS graduate students to the committee and communicated policy decisions and concerns to the graduate students.

Service to the Department of Geological Sciences

Seminar Committee (2000-2001)

As a member of this committee, I solicited suggestions for outside speakers for our department's regular research seminar series.

Service – University of Wisconsin

Service to Graduate Student Instructors

Departmental Steward, Teaching Assistants' Association, AFL-CIO, AFT Local # 3220 (1998-2000)

The Teaching Assistants' Association is the labor union representing graduate student instructors at the University of Wisconsin's Madison campus. As steward, I organized the members in my department for actions taken by the union and represented the concerns of my department's members to the union. As such, I attended all union meetings and participated in organizing meetings and actions related to contract negotiations.

Service to Profession

Book reviewer, *Technology and Culture* (2012)

Reviewer, *Engineering Studies: Journal of the International Network for Engineering Studies* (2011)

Conference Organizer, STS (R)evolutions

This conference was held from March 17 to 19, 2005 at Virginia Tech in Blacksburg, Virginia. As one of the organizers, I helped to plan and coordinate the conference, including the program, travel arrangements, and funding.

Workshop Organizer, Technologies/Moralities: The Ethical Grammar of Technological Systems

This conference was held from March 28 to 29, 2003 at Virginia Tech in Blacksburg, Virginia. As one of the organizers, I helped to plan and coordinate the conference, including the program and travel arrangements.

Service to Community

Researcher, National Academy of Engineering Committee on K-12 Engineering Education, 2008

I was commissioned to write a report on the history of engineering and technical education in the United States. My report was incorporated into the following NAE report:

National Academy of Engineering and National Research Council. *Engineering in K-12 Education: Understanding the Status and Improving the Prospects*. Washington, DC: National Academies Press, 2009.

Professional Memberships

International Network for Engineering Studies

Philadelphia Area Center for History of Science, History of Technology Working Group

Society for the History of Technology

Society for Social Studies of Science