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Winkler, Mary G. and Albert van Helden. "Johannes Hevelius and the Visual Language of Astronomy." In Renaissance and Revolution. Humanists, Scholars, Craftsmen and Natural Philosophers in Early Modern Europe. Edited by J.V. Field and Frank A.J.L. James. Cambridge: Cambridge University Press, 1993.

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EDUCATION

Virginia Polytechnic Institute and State University

Ph.D., Science and Technology Studies, November 2001
(Dissertation successfully defended September 24, 2001)
Dissertation: *"Converging Elements in the Development of Late Seventeenth-Century Disciplinary Astronomy: Instrumentation, Education, Networks, and the Hevelius-Hooke Controversy"*
Chair: Mordechai Feingold
Committee: Roger Ariew, Peter Barker, Joseph Pitt, Albert van Helden

M.S., Science and Technology Studies, April 1993
Thesis**:** *"Scientific Controversy and the New Astronomy: The Intellectual and Social Contexts of the Hevelius-Hooke Dispute"*
Chair: Mordechai Feingold
Committee: Roger Ariew, Albert Moyer, Joseph Pitt

Cornell University

B.A., History, May 1991
Concentration, History and Philosophy of Science and Technology, May 1991
Adviser: L. Pearce Williams
Courses with: Peter Dear, Margaret Rossiter, Ronald Kline, Richard Boyd, William Provine

GRANTS AND FELLOWSHIPS

- History of Science Society/National Science Foundation Travel Grant, 2001, 1997
- Department of History Travel Grant, Virginia Tech, 1999
- American Institute of Physics Travel Grant, 1999
- Center for the Study of Science in Society Travel Grant, Virginia Tech, 1999, 1998
- Center for Interdisciplinary Studies Travel Grant, Virginia Tech, 1999, 1998, 1997, 1996
- Society for the History of Technology Young Scholar Travel Grant, 1998
- Platsis Fellowship, Pancretan Association of America, 1998
- Delta Gamma Foundation Fellowship, 1997
- Graduate Research Development Project Grant, Virginia Tech, 1996

HONORS

- The Virginia Hummel Prize in Classical Studies for Graduate Study, presented by the Classical Studies Faculty, Virginia Tech, 2000
- Instructorship in History Department, Virginia Tech, Spring 2000, Fall 1999, Spring 1999, Fall 1998, Spring 1998, Fall 1997, Spring 1997, Spring 1996, Fall 1995, Spring 1995, Fall 1994
- Instructorship in Humanities Program, Virginia Tech, Fall 1999
- Hattie M. Strong Foundation Merit-based Loan, 1996
- Graduate Teaching Assistant of the Year, Nomination, Virginia Tech, 1995
- Merit-based Instructional Fee Scholarship, Virginia Tech, 1993-1994
- Merit-based Teaching Assistantship, Virginia Tech, 1993-1994, 1992-1993, 1991-1992
- Merit-based Tuition Scholarship, Virginia Tech, 1992-1993, 1991-1992
- Dean's List, Cornell University, 1990

ACADEMIC EXPERIENCE

Teaching:

Instructor, Department of History, Virginia Tech
- Prepared and presented lectures, discussions, films
- Selected textbooks and assignments
- Exclusively in charge of teaching each course

History of Western Civilization - 1025 (500-1700)
Spring 2000, Fall 1999, Fall 1998, Spring 1998
History of Western Civilization - 1026 (1700-present)
Spring 1996
History of Science - 3705 (Ancient Greeks-1700)
Spring 2000, Fall 1997, Fall 1995
History of Science - 3706 (1700-present)
Spring 1999, Spring 1997, Spring 1995, Fall 1994

Instructor, Humanities Program, Center for Interdisciplinary Studies, Virginia Tech
- Prepared and presented lectures, discussions, films
- Selected textbooks and assignments
- Exclusively in charge of teaching course

The Medieval World - 1214
Fall 1999

Instructor, Science and Technology Studies Program, Center for Interdisciplinary Studies, Virginia Tech
- Participated in one of seven workshops as an instructor
- Presented information and advice from personal experiences on conducting archival research

Research Methods Workshops (Archival Research)
Fall 1996

Teaching Assistant, Department of History, Virginia Tech
- Graded exams, quizzes, and written assignments
- Guest-lectured in undergraduate history courses
- Assisted professor in Greek language proficiency

Western Civilization, History of Science, Russian History, United States History, Ancient Greece and Rome
Spring 1994, Fall 1993, Spring 1993, Fall 1992, Spring 1992, Fall 1991

Research:

Independent Researcher, Summer 1996
- Spent summer researching archival materials at the Royal Greenwich Observatory archives (Cambridge University Library), Royal Society archives (London), and Paris Observatory archives (Paris)

Research Assistant, Department of History, Virginia Tech, Summer 1992
- Researched bibliographic resources in library
- Continued assisting professor in Greek language proficiency

Related Experience:

Reviewer, October 2001
- Currently reviewing journal article for Perspectives on Science, MIT Press

Proofreader, Adler Planetarium, Chicago, IL, Fall 2000
- Proofread wall text targeted to a general public audience for exhibit, "The Remarkable Work of Copernicus, Hevelius, and Other Polish Astronomers"

Translator, Virginia Tech, Fall 1995-Spring 1996
- Translated French and Latin history and philosophy of science articles into English for science studies faculty member

Proofreader, Virginia Tech, Fall 1994-Spring 1995, Spring 1994
- Proofread manuscripts for history faculty member that were subsequently published (France in the Sixteenth Century, St. Martin's Press, New York, 1995) (Louis XII, St. Martin's Press, New York, 1994)

PUBLICATIONS

"Jean Tarde," Biographical Encyclopedia of Astronomers, ed. Thomas Hockey (Dordrecht, The Netherlands: Kluwer Academic Publishers, forthcoming 2003).

"Nathaniel Bliss," Biographical Encyclopedia of Astronomers, ed. Thomas Hockey (Dordrecht, The Netherlands: Kluwer Academic Publishers, forthcoming 2003).

"X-ray Astronomy," co-authored with Richard F. Hirsh, History of Astronomy: An Encyclopedia, ed. John Lankford (New York and London: Garland Publishing, Inc., 1997), 569-571.

CONFERENCE PAPERS, LECTURES, AND ACTIVITIES

Accepted Papers:

"Who was Elisabetha Hevelius? 'Domestic' Astronomy in the Early Modern Period"
History of Science Society Annual Meeting, Denver, CO
November 9, 2001

"Who was Elisabetha Hevelius? A Study of a Seventeenth-Century Woman Astronomer"
Fifth Biennial History of Astronomy Workshop, University of Notre Dame
July 6, 2001

"Conducting Archival Research in Europe"
Thursday Luncheon Seminar, Virginia Tech
January 21, 1999

"Scientific Societies and the Legitimation of Astronomical Instrumentation and Observation in the Seventeenth Century"
Science and Technology Studies Colloquium Lecture Series, Virginia Tech
December 2, 1998

"The Role of Scientific Societies in Legitimizing Astronomical Instrumentation and Observation"
History of Science Society Annual Meeting, Kansas City, MO
October 23, 1998

"The Impact of New Precision Technology and Scientific Societies on Disciplinary Astronomy in the Late Seventeenth Century"
Society for the History of Technology Annual Meeting, Baltimore, MD
October 18, 1998

"The Controversy between Hevelius and Hooke over the Relative Merits of Naked-Eye versus Telescopic Sights"

History of Science Society Annual Meeting, San Diego, CA
November 7, 1997

"John Flamsteed at the Royal Greenwich Observatory: Dilemmas and Concerns of a Seventeenth-Century Astronomer"
Third Biennial History of Astronomy Workshop, University of Notre Dame
June 21, 1997

"John Flamsteed at the Royal Greenwich Observatory: Dilemmas and Concerns of a Seventeenth-Century Astronomer"
Thursday Luncheon Seminar, Virginia Tech
January 1997

"The Controversy between Hevelius and Hooke over the Relative Merits of Open versus Telescopic Sights"
Thursday Luncheon Seminar, Virginia Tech
April 1993

Invited Papers:

"Contextualization in the History of Science: The Hevelius-Hooke Dispute Over the Use of Naked-Eye Versus Telescopic Sights"
Montana State University, Bozeman, MT
December 3, 1999

"Astronomical Controversy between Hooke and Hevelius as a Case of Contextualization in the History of Science"
Joint Atlantic Seminar in the History of the Physical Sciences, Washington, D.C.
September 18, 1999

"Historiographical Approaches to the Scientific Revolution"
History Research Colloquium, Virginia Tech
September 1, 1999

"Forging a Nexus: The Impact of New Technologies and the European Scientific Community on Astronomy in the Late Seventeenth Century"
Georgia Institute of Technology, Atlanta, GA
April 27, 1999

Session Chair:

"Historical Studies on Astronomy III"
Fourth Biennial History of Astronomy Workshop, University of Notre Dame
Invited to serve as Session Chair
July 3, 1999

UNIVERSITY SERVICE

- Collegiate Recruitment Consultant, Delta Gamma Fraternity, Eta Zeta chapter, University of Chicago, July 2001-present
- Membership Adviser, Delta Gamma Fraternity, Delta Rho chapter, Virginia Tech, August 1993-May 2000
- Graduate Student Assembly Elected Representative/Delegate, Science and Technology Studies Department, Virginia Tech, August 1995-May 1997
- Search Committee for Vice-Provost of Academic Affairs, Graduate Student Committee Member, Virginia Tech, Spring 1996

ORGANIZATIONS AND PROFESSIONAL AFFILIATIONS

- American Historical Association
- British Society for the History of Science
- Eta Sigma Phi, National Classics Honor Society
- History of Science Society

FOREIGN LANGUAGES

Speaking, reading, and writing ability:

- French
- Modern Greek

Reading and writing ability:

- Latin
- Ancient Greek

REFERENCES

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