

Machelle Hartman

1126 Chestnut Drive, Walla Walla, WA 99362

509.529.3747 jamhartman@gmail.com

509.524.2011 hartmam@whitman.edu

Objectives	To inspire others to understand science & see their world with a new perspective To teach students to communicate science to diverse audiences To promote sustainability through education, locally and globally To promote environmental justice and human rights through media and science.
Education	
2006	M.A. Environment and Community , Antioch University, Seattle, WA Graduate certificates: Integrated skills for sustainable Change (2006) and Ecological planning and design (2006)
2000	B.A. Chemistry Education, Walla Walla College , College Place, WA 3.9 GPA, Dean's List, Certification (expired): WA State Certification, Chemistry grades 9-12
1997	A.A. degree, Music Major , Treasure Valley Community College, Ontario, OR 4.0 GPA, Dean's List
Work Experience	
2021-current 2017-2021 2012-2016 2003-2011	Senior Lecturer of Chemistry & Director/Coordinator for CHEM 135/136 Senior Lecturer of Chemistry & Director/Coordinator for CHEM 125/126 Lecturer of Chemistry & Director/Coordinator of CHEM 125/126 Visiting Instructor of Chemistry Whitman College, Walla Walla, WA Duties: Teach general Chemistry 135 & 136 lab course and Chemistry 125 & 126 lecture class, coordinate with other instructors to maintain continuity between all lab and lecture sections taught. Other classes assigned include: CHEM 111 (companion course to support CHEM 125/135 and CHEM 102 (Chemistry in Art) for non-majors.
2008-current	President of the board of directors, Co-producer Eclectic Reel non-profit, WA Duties: Produce documentaries focusing on human rights & environmental issues, facilitate relationships with Indigenous tribes, coordinate fundraising, educate communities and audiences about the chemical and health hazards of gold mining, etc.
2009-2010	College Environmental Science Instructor University of Phoenix, online Duties: Teach 9 week environmental science (SCI 275) courses online to classes of 20+ students.
2007-2013	Environmental Community Consultant Green & Blue Consulting, Walla Walla WA Duties: help organizations initiate change and sustain change
2003-2004	Online High School Chemistry Teacher AE21(Adventist Education 21 st Century) Florida Conference of Seventh Day Adventists Duties: Teach on-line college prep chemistry course with lab
2001-2003	US Peace Corps Volunteer-Education Trainer Roxas City, Capiz, Philippines Duties: Train teachers in chemistry, general science, English, math, computers and general teaching methods; Design and publish elementary environmental curriculum manual; Organize and implement youth environmental camps; Demonstrate chemistry lessons; Integrate into local culture; Learn the local dialect-Hiligaynon
2000-2001	Substitute Teacher Walla Walla, WA School District Duties: Teach a variety of levels for absent teachers, long term sub positions for high school biology and 3 rd grade
Fall 2000 & 2004	College General Chemistry Instructor Walla Walla College Duties: Sabbatical replacement, Teach Lab course (2000), including pre-lab lecture and grading, for college General Chemistry class; teach lecture course (2004)
1997-2000	Writing Tutor, Science Tutor & Coordinator, Teaching & Learning Center Walla Walla College Duties: Instruct and aid students in their homework; Schedule, supervise and evaluate science tutors of the Teaching & Learning Center

Training

- Tutor Certification (Basic, Advanced and Master) College Reading & Learning Association
- Cross cultural Peace Corps training (2001)
- Chemistry and Art Workshop, Whitman College (2010)
- Forensic Science/Chemistry, Williams College (2013)
- First Degree Black Belt (Shudokan Karate) (2014, certified ~2016)
- Inclusive Pedagogy Workshop by Mary James, Whitman College (2018)
- Mental Health Workshop, Whitman College (2019)
- Coursera Course Certificate: John Hopkins University COVID-19 Contact Tracing
- NW5 Colonialism & Indigenous Knowledge Ways in the Pacific Northwest, Whitman College (2021)

Grants

- US Embassy Club Grant for publication of 1,000 environmental education manuals (2003)
- Walla Walla University Faculty Development Grant (2008)
- Whitman College CTL Summer Grants for Pedagogical Research and Development (2012)

Foreign Languages

- 1 year High School Spanish; 3 quarters College Spanish (Spanish I, II, III)
- 2+ years, in-country, Ilonggo (Hiligaynon)

Awards

- Honor Student, Dean's list (1995-2000)
- Band Award (1995-1997), Outstanding Choral Student Award (1995-97), and Music Honor Award (1996)
- McConnell/Kwiram Chemistry Award, Walla Walla College (1998)
- C.W. Shankel Memorial Chemistry Scholarship, Walla Walla College (1999)
- A.E. Lang Award for Distinguished Science Teaching, Whitman College (2023)

Productions and Awards

- *Indigenous Suriname* (2008) won the United Nations Caribbean Populations Award in the non-media category for the Organization of Indigenous Suriname (OIS) (November 2008) and \$10,000 prize money
- Acceptance to Latin American and Caribbean Film Festival (*Indigenous Suriname*, 2009)
- X-International Film Festival (Ecuador) Award for Community Documentary (*Indigenous Suriname*, 2010)
- *Inside Suriname* (2012) released April of 2012
- *Doctrine of Discovery: In the Name of Christ*. 2015. Produced for/with Mennonite steering committee working group on the Doctrine of Discovery (Mennonite Church USA).

Publications

Hartman, J. and M. Hartman, eds. *Elementary Hand in Hand*. US Peace Corps and US Embassy (Philippines): 2003.

Hartman, J. and M. Hartman. "Suriname: Giving an international voice to interior tribes." Auth Martha Mollison. *Producing videos: a complete guide*. Australia: Allen and Unwin, 2010.

Kanu, A.B., Pajski, M., Hartman, M. et. al. "Exploring Perspectives and Identifying Potential Challenges Encountered with Crime Scene Investigations when Developing Chemistry Curricula." *Journal of Chemical Education*. DOI: 10.1021/ed500671x. ACS Publications: June 2015.

Presentations

- Community Driven Media: Capacity Building for Indigenous People and Refugees. Reporting New Realities in Asia and the Pacific, Hong Kong, East West Center and University of Hong Kong, April 2010.
- *Indigenous Suriname* Screening and Q&A, 15th Annual Native American Film and Video Festival, Smithsonian's National Museum of the American Indian, New York, NY, March/April 2011.
- *Inside Suriname* Screening and Q&A, Walla Walla University in partnership with Local Amnesty International Club, May 2012.
- "Communication in the Sciences (General Chemistry)" CTL Lunch Presentation, November 2014.
- Studying Art in General Chemistry. cCWCS Chemistry in Art Workshop. Bismarck, ND. July 2015.
- Workshop development, coordination and presentation: Art as a Context for General Chemistry. cCWCS/NSF project. Whitman College, WA, June 2016 & June 2017.

Service to Whitman College and the Broader Community

- General Chemistry Coordinator 2012-current
- Coordinated and implemented a tutor training mini-program for all chemistry tutors hired by our department
- Pre-major advisor (2012-2021)
- Attended, presented and answered questions for multiple Peace Corps recruitment events
- Presented documentary work (in Suriname) with multiple classes (outside and inside the chemistry department) at Whitman College
- Served on tenure-track search committee in Chemistry Department (Fall 2011, Fall 2014, Fall 2017)
- Represent Whitman College by providing outreach events with chemistry activities for students of all ages in the Walla Walla community (2010-present)
- Developed our first CHEM 111 (companion course for CHEM 125) in Fall 2017
- Service on CTL committee (Fall 2020-current)
- Participant in Pedagogical Inquiry Grant (PIG funded by CTL) to evaluate and redesign the General Chemistry Lecture & Lab curriculum.

Volunteer Experience

- Consultant at Walla Walla High School: Student Volunteer Program (2006)
- Scholarship Coordinator: Foreign Education Fund for Filipino students (2003-current)
- Event Coordinator: March of Peace Celebration, Walla Walla, WA (2008)
- Chemistry presenter: Science Workshop for “Great Explorations”, a science event for middle school girls, Walla Walla, WA (2009)
- Served on City of Walla Walla Ad Hoc Sustainability Committee (2009)
- Chemistry/Science presentation for “Interwoven”, an art gallery showing for 2 local artists (2010)
- Chemistry/Science presentations for elementary and middle school students: special topics courses for HomeLink students of Walla Walla (2011-2015)
- Documentary production with Indigenous and Maroon tribes in Suriname (through Eclectic Reel)
- Develop media (photographs, banners, and documentaries) for Guimaras (Philippine) tourism and environmental protection PR (2016, 2017, 2019, ongoing as requested)
- 4H Leader for Feathers & Hares Club in Walla Walla County as General Club leader & Poultry Project Leader
- Chemistry outreach activities for Walla Walla County 4H Events: Super Saturday and Ducky Derby Booth