

Melissa (Ingram) LaDuke, PhD.

EDUCATIONAL EXPERIENCE

Texas Tech University, Ph.D. Lubbock, TX (2019)

Curriculum and Instruction with a concentration in STEM and language and literacy

University of Dayton, M.S. Dayton, OH (2008)

Chemistry with a concentration in bio/organic materials

Hawaii Pacific University, B.S. Honolulu, HI (2005)

Chemistry

PROFESSIONAL EXPERIENCE

June 2022 – Present	Instructor/Faculty , National Intelligence University, Bethesda, MD
September 2021 – Present	Online Adjunct Professor , University of the People, Pasadena, CA
March 2021 – June 2022	Department Director , Theories and Principles of Adult Learning, Squadron Officer School, Maxwell AFB, AL
June 2020 – March 2021	Deputy Director , Design and Development, eSchool for Professional Military Education, Maxwell AFB, AL
June 2018 – June 2020	Instructor , United States Air Force Academy, Colorado Springs, CO
June 2016 – June 2018	Chief of Safety/Director of Operations , Air Force Rocket Laboratory, Edwards AFB, CA
June 2014 – June 2016	Chief of Protocol/Executive Officer , 354th Fighter Wing, Eielson AFB, AK
June 2011 – June 2014	Chief, Continuous Process Improvement Branch , Air Force Technical Applications Center, Patrick AFB, FL
June 2008 – June 2011	Assistant Professor of Aerospace Studies , San Jose State University, San Jose, CA
October 2005 – June 2008	Optical Materials Analytical Chemist/Materials Technology Program Manager , Air Force Material and Manufacturing Laboratory, Wright-Patterson AFB, OH

CERTIFICATIONS

Advanced Digital Education & Engaged Learning Seminar, Columbia University
 Dean's Teaching Certificate, United States Air Force Academy
 Diversity, Equity, Inclusion, and Accessibility Professional Certification, Diversity Executive Leadership Academy
 Lean Six Sigma Green Belt, United Launch Alliance
 Master Instructor Certification, Air Education and Training Command, Maxwell Air Force Base
 Virtual Teacher Certification, University of California, Irvine

AWARDS

2023 Best Presentation, 2023 International Conference on Adult Education, Dubrovnik, Croatia: World Academy of Science, Engineering, and Technology
 2023 Gannon Award for Research, National Intelligence University, Bethesda, MD
 2022 Outstanding Leadership Award, Education 2.0 Conference, Las Vegas, NV.
 2022 Best Presentation, 2022 International Conference on Lifelong Learning. Bali, Indonesia: World Academy of Science, Engineering, and Technology
 2022 Best Presentation, 2022 International Conference on Teaching for Individual Differences. Rome, Italy: World Academy of Science, Engineering, and Technology

- 2021 Best Presentation, 2021 International Conference on Humanities and Higher Education. Lisbon, Portugal: World Academy of Science, Engineering, and Technology
- 2011 Arnold Air Society Region 10 Advisor of the Year

ADDITIONAL TRAINING OR CERTIFICATIONS

- Defense Acquisition University Level 3 - Systems Planning, Research, Development, and Engineering – Systems Engineer
- Defense Acquisition University Level 2 - Systems Planning, Research, Development, and Engineering – Program Systems Engineer
- Defense Acquisition University Level 2 - Systems Planning, Research, Development, and Engineering – Science and Technology Manager
- Defense Acquisition University Level 1 - Program Management
- Defense Acquisition University Level 1 - Test and Evaluation

RESEARCH GRANTS

- 2006 Air Force Research Laboratory. *Infrared Perimeter System*. Project focused on proof of concept for covert, mobile, and robust perimeter alert system for military members in field and deployed environments (\$75,000).

PEER REVIEWED PUBLICATIONS

- LaDuke, M.C. (2023). Student Perceptions of Defense Acquisition University Courses: An Explanatory Data Collection Approach. *World Academy of Science, Engineering and Technology, International Journal of Educational and Pedagogical Sciences*, 17(8), 556-563.
- LaDuke, M. C. (2023). Start Talking in an e-Learning Environment: building and Sustaining Communities of Practice. *World Academy of Science, Engineering and Technology, International Journal of Educational and Pedagogical Sciences*, 17(7), 471-476.
- Clark, C., Gosai, M., Janssen, T., LaDuke, M., Landgrebe, J., Pace, L., & Smith, B. (2023, March). Quantum sensing and quantum engineering: a strategy for acceleration via metascience. In *Quantum Sensing, Imaging, and Precision Metrology*, 12447, 125-140. SPIE.
- LaDuke, M. (2022). Teaching science content area literacy to 21st century learners. *World Academy of Science, Engineering and Technology, International Journal of Educational and Pedagogical Sciences*, 16(9), 454-461.
- LaDuke, M.C. (2022). Cultivating individuality and equality in education: Ideas on respecting dimensions of diversity within the classroom. *World Academy of Science, Engineering and Technology International Journal of Educational and Pedagogical Sciences*, 16(6), 317-329.
- Beckel, E., Ingram, M., Natarajan, L., Tondiglia, V., Sutherland, R., & Bunning, T. (2006, March). *Electrooptic Properties of Holographic Polymer-Stabilized Cholesteric Liquid Crystals*. Bulletin of the American Physical Society.
- Bozlee, B. J., Misra, A. K., Sharma, S. K., & Ingram, M. (2005). Remote raman and fluorescence studies of mineral samples. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 61(10), 2342-2348. doi: 10.1016/j.saa.2005.02.033.

PRESENTATIONS

- LaDuke, M. C. (2023, October 2). *Student Perceptions of Defense Acquisition University Courses: An Explanatory Data Collection Approach* [Conference session]. 2023 International Conference on Adult Education. Dubrovnik, Croatia: World Academy of Science, Engineering, and Technology.
- LaDuke, M., Gosai, M., & Pace, L. (2023, September 18). *Exploring the Link Between Quantum Science and AI: Pathways for Collaboration* [Conference session]. Institute of Electrical and Electronics Engineers Quantum Week, Bellevue, WA, USA.
- Ali, F., Campbell, S., LaDuke, M. C., Pace, L. M., & Pike, T. D. (2023, August 2). *The Critical Role of STEM*. Intelligence Community Innovation Summit, St. Louis, MO, USA.
- Gosai, M. A., LaDuke, M. C., & Pace, L. M. (2023, April 13). *Quantum Metascience Initiative*

- [Conference session]. North Atlantic Treaty Organization Military Science Symposium, London, UK.
- LaDuke, M. C. (2023, June 13). *Meeting students where they are: Reflections from an international online education program* [Conference session]. Higher Education Teaching and Learning Conference, Aberdeen, UK.
- Gosai, M. A., Janssen, T. J., LaDuke, M. C., Pace, L. M. (2023, January 30). *Quantum sensing and quantum engineering: a strategy for acceleration via metascience* [Conference session]. Quantum Sensing, Imaging, and Precision Metrology Conference, San Francisco, CA, United States.
- LaDuke, M. C. (2022, December 19). *STEM learning: Implementation & learning outcomes* [Conference session]. Education 2.0 Conference, Las Vegas, NV, United States.
- LaDuke, M.C. (2022, October). Start talking in an e-learning environment – building and sustaining communities of practice. Proceedings from the *2022 International Conference on Lifelong Education*. Bali, Indonesia: World Academy of Science, Engineering, and Technology.
- LaDuke, M.C. (2022, April). Teaching science content area literacy to twenty-first century learners. Proceedings from the *2022 International Conference on Teaching for Individual Differences*. Rome, Italy: World Academy of Science, Engineering, and Technology.
- Ingram, M.C. (2021, October). Cultivating individuality and equality in education: Ideas on respecting dimensions of diversity within the classroom. Proceedings from the *2021 International Conference on Humanities and Higher Education*. Lisbon, Portugal: World Academy of Science, Engineering, and Technology.
- Cleveland, B. & Ingram, M. (2021, October). Implementing a systematic review process for integrating elearning tools: Lessons learned. Proceedings from the *70th Annual American Association for Adult and Continuing Education Conference*. Miramar Beach, Florida: American Association for Adult and Continuing Education.
- Ingram, M.C. (2021, June). Game play in the classroom. Proceedings from the *2021 Science, Technology, Engineering, Arts, Math, and Education Conference*. Honolulu, HI: Hawaii University International Conferences.
- Ingram, M.C. (2020, November). Teaching science content area literacy to twenty-first century learners. Proceedings from the *2020 Association for the Study of Higher Education Conference*. New Orleans, LA (Virtual): Association for the Study of Higher Education.
- Ingram, M. C., & Matteson, S. M. (2019, March). Increasing engagement in adult learners - A study online course participation. Proceedings from the *2019 Lilly Conference on Active and Engaged Learning*. Anaheim, CA: International Teaching Learning Cooperative.
- Ingram, M. C., & Matteson, S. M. (2019, February). Using explanatory data collection methods to study online course participation. Proceedings from the *2019 Conference on Higher Education Pedagogy*. Blacksburg, VA: Virginia Tech.
- Napolitano, M., & Ingram, M. C. (2019, February). Group work. Symposium conducted at the United States Air Force Academy, Colorado Springs, CO.
- Ingram, M. C., & Matteson, S. M. (2019, January). Using explanatory data collection methods to study online air force acquisition courses and personnel participation. Proceedings from the *2019 Arts, Humanities, Social Sciences, and Education Conference*. Honolulu, HI: Hawaii University International Conferences.
- Ingram, M. C., & Matteson, S. M. (2019, January). Using explanatory data collection methods to study online course participation. Proceedings from the *2019 Lilly Conference on Evidence-based Teaching and Learning*. Austin, TX: International Teaching Learning Cooperative.
- Ingram, M. C. (2018, November). Start talking in class: The benefits of social interaction in a learning environment. Symposium conducted at the United States Air Force Academy, Colorado Springs, CO.

PROFESSIONAL SERVICE

2024 Guest Reviewer, Journal of Applied Research in Higher Education
 2024 2024 STEM/STEAM & Education Conference Proposal Reviewer, Hawaii University International Conference
 2023 Session Discussant, 73rd Annual Conference, Literacy Research Association
 2023 Guest Speaker, Midwest Conference, American Association of University Women
 2023 Session Co-Chair, International Conference on Adult Education, World Academy of Science, Engineering, and Technology
 2023 Guest Reviewer, Journal of Applied Research in Higher Education
 2023 Advisor, Intelligence Community Science, Technology, Engineering, Arts, and Mathematics (IC STEAM) Committee
 2023 Chair, Educational Effectiveness Assessment Committee, National Intelligence University
 2022-2023 Chair, Inclusions and Equity Committee, American Association of University Women
 2023 73rd Annual Conference Proposal Reviewer, Literacy Research Association
 2023 2023 STEM/STEAM & Education Conference Proposal Reviewer, Hawaii University International Conference
 2022 Member, Educational Effectiveness Assessment Committee, National Intelligence University
 2022 Diversity, Equity, Inclusion, and Accessibility Steering Committee, National Intelligence University
 2022 Session Chair, 72nd Annual Conference, Literacy Research Association
 2022 Guest Speaker – Pennsylvania State Conference, American Association of University Women
 2022 72st Annual Conference Proposal Reviewer, Literacy Research Association
 2022 2022 STEM/STEAM & Education Conference Proposal Reviewer, Hawaii University International Conference
 2022 Member, Educational and Pedagogical Sciences, Scientific Committees and Editorial Review Board, World Academy of Science, Engineering and Technology
 2021-2022 Chair, Inclusion and Equity Committee, American Association of University Women
 2021 Session Chair, 71st Annual Conference, Literacy Research Association
 2021 Session Chair, International Conference on Humanities and Higher Education, World Academy of Science, Engineering, and Technology
 2021 46th Annual Conference Proposal Reviewer, Association for the Study of Higher Education
 2021 71st Annual Conference Proposal Reviewer, Literacy Research Association
 2021 Guest Speaker – New York State Conference, American Association of University Women
 2021 Guest Speaker – Florida State Conference, American Association of University Women
 2021 Guest Speaker – Colorado State Conference, American Association of University Women
 2021 Article Reviewer, Journal of Applied Research in Higher Education
 2020-2021 Chair, Toolkit Subcommittee, Inclusion and Equity Committee, American Association of University Women
 2020 Discussant, Literacy Research Association 70th Conference
 2020 70th Annual Conference Proposal Reviewer, Literacy Research Association
 2019-2020 Member, Diversity, Inclusion and Equity Committee, American Association of University Women
 2019-2020 United States Air Force Academy Faculty Senate
 2019-2020 Chair, Educational Technology Committee, United States Air Force Academy
 2018-2020 United States Air Force Academy Making Excellence Inclusive Committee
 2018-2020 United States Air Force Academy Division I Baseball Team Assistant/Tutor
 2018-2020 United States Air Force Academy Division I Baseball Team Eligibility Committee Member
 2018-2020 United States Air Force Academy Admissions Committee
 2018 Guest Speaker - Air Force Reserve Officer Training Corps Southwest Region, Biloxi, MS
 2011 Guest Speaker - Air Force Reserve Officer Training Corps Detachment 045, San Jose, CA
 09/30/2023

CA
2010-2011 Silver Wings Community Service Club Advisor
2008-2011 Arnold Air Society Community Service Club Advisor

PROFESSIONAL MEMBERSHIPS

American Association of University Women
International Society for the Scholarship of Teaching and Learning
Literacy Research Association
Iota Sigma Pi, Society of Women in Chemistry – Colorado Chapter
Institute of Electrical and Electronics Engineers
Society of Photographic Instrumentation Engineers