Nancy E. Adams
Curriculum Vitae

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Education

EdD, Penn State Harrisburg, Harrisburg, PA, 2016.
Major: Adult Education
Dissertation Title: Dialog about Psychosocial Issues in Problem-Based Learning Sessions in Medical Education

MLIS, Wayne State University, Detroit, MI, 1996.
Major: Library and Information Science

BS, Magna cum laude, Harding University, Searcy, AR, 1990.
Major: Chemistry

Professional Positions

Academic

Librarian for Scholarly Communication and Education, Harrell Health Sciences Library, Penn State College of Medicine. (July 2024-present)

Assistant Dean, Foundational Sciences, MD Program, Penn State College of Medicine and Librarian for Education and Instruction, Harrell Health Sciences Library, Penn State College of Medicine. (July 2017-July 2024)

Associate Director, Harrell Health Sciences Library, Penn State College of Medicine. (July 2010-June 2017).

University Librarian and Director of Student Services, Harrisburg University of Science and Technology. (December 1, 2009 - June 25, 2010).

University Librarian, Harrisburg University of Science and Technology. (July 1, 2008 - December 1, 2009).

Reference and Instruction Librarian, Harrisburg Area Community College. (September 2006 - June 2008).

Librarian II, University of Maine. (September 1998 - December 2000).
Reference and instruction in patent and trademark information, science, and engineering.

Librarian I, Wayne State University Shiffman Medical Library. (October 1996 - August 1998).
Lead instructor of grant-funded program that trained high school vocational healthcare students in the use of health sciences information resources; reference and instruction services at an academic medical center.

Science Teacher, Edsel Ford High School, Dearborn, MI. (August 1993 - June 1994).
Taught high school physical science, chemistry, and life science.

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Science Teacher, Harding Academy, Memphis, TN. (August 1992 - June 1993).
Taught high school physics and physical science.

Science Instructor, Harding University. (August 1991 - May 1992).
Taught chemistry and physical science.

Science Instructor, Crowley's Ridge College, Paragould, AR. (January 1991 - August 1991).
Taught college botany, chemistry, and biology.

Awards and Honors

Exceptional Teacher mention, Penn State College of Medicine Office for Respectful Learning Environment. (December 2020 - Present).

Penn State University Libraries Teaching Award, Penn State University Libraries. (May 24, 2016 - April 30, 2017).

Top 20 Library Instruction Article, Library Instruction Round Table, American Library Association. (January 2016 - December 2016).

Innovation in Instruction Award, Association of College and Research Libraries. (1998).

Outstanding Academic Staff Contributor Award, Wayne State University, Academic Staff Professional Development Committee. (1998).

TEACHING ACTIVITIES, SELECTED

Co-Director and Instructor of Record of Credit-Bearing Course
HMN 797, Foundations of Health Humanities, Fall 2021, MD Program, Penn State College of Medicine

Lead Faculty Member, Evidence-Based Medicine Unit of MED 797b, Science of Health Systems

Small Group Facilitator in Required Courses in the MD Curriculum
HMN 713, Medical Humanities
HMN 715, Science of Mind and Body
TMS 721 Transition to Medical School
HMN 723 Communication
MED 797b Science of Health Systems
Interprofessional education sessions in Science of Health Systems and Foundations of Patient-Centered Care

Course-Integrated Information Literacy Instruction
--Evidence-Based Medicine OSCE Assessor for Family and Community Medicine Residency
--Scientific Principles of Medicine Course, Searching PubMed like an Expert Module

RESEARCH

Intellectual Contributions

Articles Published in Refereed Journals

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Moniz, T., Golafshani, M., Gaspar, C., Adams, N. E. (Co-Author, 10%), Haidet, P., Sukhera, J., Volpe, R., de Boer, C., & Lingard, L. (2021). The Prism Model: Advancing a theory of practice for arts and humanities in medical education. *Perspectives in Medical Education*, 8 pages. DOI: https://doi.org/10.1007/s40037-021-00661-0

Moniz, T., Golafshani, M., Gaspar, C., Adams, N. E. (Co-Author, 10%), Haidet, P., Sukhera, J., Volpe, R., de Boer, C., & Lingard, L. (2021). How are the arts and humanities used in medical education?: Results of a scoping review of published literature. *Academic Medicine, 96*(8), 1213-1222. DOI: 10.1097/ACM.0000000000004118

Moniz, T., Golafshani, M., Gaspar, C., Adams, N. E. (Co-Author, 10%), Haidet, P., Sukhera, J., Volpe, R., de Boer, C., & Lingard, L. (2021). The Prism Model for integrating arts and humanities into medical education. *Academic Medicine, 96*(8), 1225. DOI: 10.1097/ACM.0000000000003949

Duca, N., Adams, N. E. (Co-Author, 40%), Glod, S., & Haidet, P. (2020). Barriers to Teaching Clinical Reasoning in the Medicine Clerkship: A Qualitative Study of Medicine Clerkship Students. *Medical Science Educator, 30*, 1495–1502. DOI: https://doi.org/10.1007/s40670-020-01069-x

Nicholson, J., Spak, J. M., Kovar-Gough, I., Lorbeer, E., & Adams, N. E. (Co-Author, 20%) (2019). Entrustable Professional Activity 7: Opportunities to Collaborate on Evidence-Based Medicine Teaching and Assessment of Medical Students. *BMC Medical Education, 19*(330).

Volpe, R., Hopkins, M., Haidet, P., Wolpaw, D., & Adams, N. E. (Co-Author, 25%) (2019). Is research on professional identity formation biased? Early insights from a scoping review and metasynthesis. *53*(2), 119-132.

Richard, D., Felix, T., Zimmermann, J., Adams, N. E. (Co-Author, 10%), Knehans, A., & Faber, S. (2017). Individualized Patient-Centered Care: A Physician Assistant Curriculum in Information Mastery, Clinical Reasoning, and Shared Decision Making. *Journal of Physician Assistant Education, 28*(3), 158-163.

Adams, N. E. (Co-Author, 40%), Gaffney, M., & Lynn, V. A. (2016). The role of evidence-based practice in collaborations between academic librarians and education faculty. *portal: Libraries and the Academy, 16*(4), 697-720.

Haidet, P., Jarecke, J., Adams, N. E. (Co-Author, 5%), Stuckey, H. L., Greene, M. J., Shapiro, D., Teal, C. R., & Wolpaw, D. R., et al. (2016). A Guiding framework to maximize the power of the arts in medical education: A systematic review and metasynthesis. *Medical Education, 50*(3), 320-331. ISBN/ISSN: 10.1111/medu.12925

Adams, N. E. (2015). Asking a Great Question: A Librarian Teaches Critical Thinking Skills to First Year Medical Students. *Medical Reference Services Quarterly, 34*(4), 418-427.

Adams, N. E. (2015). JMLA 101: Bloom's Taxonomy of Cognitive Learning Objectives. *Journal of the Medical Library Association, 103*(3), 152-153.

Adams, N. E. (2014). A Comparison of Evidence-Based Practice and the ACRL Information Literacy Standards: Implications for Information Literacy Practice. *College and Research Libraries, 75*(2), 232-248.

Tomasko, J. M., Adams, N. E. (Secondary Author, 20%), Garritano, F. G., Santos, M. C., & Dillon, P. C. (2014). Collaborating to Increase Access to Clinical and Educational Resources for Surgery: A Case Study. *Journal of Surgical Education, 71*(1), 32-5.

Adams, N. E. (Co-Author, 50%), & Young, J. B. (2010). Users learning from users: building a learning commons from the ground up at a new university. *College & Undergraduate Libraries, 17*(2 & 3), 149-159.

Parts of Books

Kovar-Gough, I., & Adams, N. E. (Co-Author, 50%) (2020). Curriculum Mapping: A Match Made for Librarian Skills. In Lindsay Alcock and Kelly Thormodson (Eds.), *The Engaged Health Sciences Library Liaison* Chicago, IL: Medical Library Association.

Adams, N. E. (Primary Author, 95%), & Olivetti, J. K. (2012). Making it better: library and student services collaboration at a new university. In Lisa Janicke Hinchliffe and Melissa Wong (Eds.), *Environments for Student Growth and Development: Libraries and Student Affairs in Collaboration* (pp. 57-72). Chicago, IL: Association of College and Research Libraries.

Instructional Material, Instructor's Manual

Felix, T., Richard, D., Faber, F. S., Zimmermann, J., & Adams, N. E. (Co-Author, 5%) (2015). CoffeeTalks: An Innovative Approach to Teaching Clinical Reasoning and Information Mastery to Medical Students. *MedEdPortal.* Association of American Medical Colleges. DOI: 10.15766/mep_2374-8265.10004

Journal Article, In House

Robinson, C. K., & Adams, N. E. (Co-Author, 50%) (2011). Understanding the impact of health information and evidence based practice. *Interview, 5*(24), 1.

Magazine/Trade Publication

Chappell-Williams, L., Adams, N. E. (Co-Author), & Wang, J. (2018). "Creating an inclusive medical education curriculum." *INSIGHT Into Diversity.* (December 2018), (pp. 2).

Technical Report

Bivens-Tatum, W., & Adams, N. E. (Co-Author, 10%), et al. (2017). ACRL Environmental Scan 2017.

White Paper released by National Professional Organization

Howley, L., Gaufberg, E., King, B., et al. & Adams, N. E. (2020). *The Fundamental Role of the Arts and Humanities in Medical Education.* (pp. 3). Washington, DC: Association of American Medical Colleges.

Research Reports to Sponsor

Moniz, T., Golafshani, M., Haidet, P., Lingard, L., Adams, N. E., Apramian, T., Arntfeld, S., de Boer, C., Dell, E., Gaspar, C., Sukhera, J., Volpe, R., *Final Report: Scoping review on the use of arts and humanities in the education of physician and interprofessional learners across the developmental spectrum*. 169 pp. Final Report, Association of American Medical Colleges. (January 15, 2020).

Presentations Given, Selected

Adams, N. E., & Cirelli, M. C. (June 14, 2019). "Searching PubMed like an Expert: The Evolution," PubMed Searching Discussion Forum, ACRL Health Sciences Interest Group, Virtual, 250 in attendance, peer-reviewed/refereed. International.

Glendinning, D. (Rutgers Robert Wood Johnson Medical School), Willett, L. (Rutgers Robert Wood Johnson Medical School), Moser, E. (Penn State College of Medicine), Kim, S. (Rutgers Robert Wood Johnson Medical School), & Adams, N. E. (June 2018). "Moser, E., Kim, S., Adams, N. Discriminant Validation of new test of Evidence-based Medicine." Annual Meeting, IAMSE, Las Vegas, NV, peer-reviewed/refereed. International.

Adams, N. E. (Co-Author), Collins, H., Kovar-Gough, I., Lorbeer, E., Nicholson, J., Spak, J., Brennan, E., Ogawa, R., Rambo, N., Thormodson, K., & von Isenburg, M. (May 20, 2018). "Identifying the Role of the Medical Librarian in Clinical Competency Entrustment," Annual Meeting, Medical Library Association, Atlanta, GA, peer-reviewed/refereed. National.

Collins, H. (University of Kansas Medical Center), Adams, N. E., & Brennan, E. (Medical University of South Carolina (MUSC) Library, Medical University of South Carolina). (November 7, 2017). "Competency-Based Medical Education & the Role of Medical Librarians: Trends, Challenges, and Opportunities," Association of American Medical Colleges Annual Meeting, Boston, MA, peer-reviewed/refereed. National.

Adams, N. E., & (AAHSL Task Force Evaluating AAMC Core EPAs). (May 29, 2017). "AAHSL Task Force on Evaluating AAMC Core EPAs," Annual Conference, Medical Library Association, Seattle, WA, peer-reviewed/refereed. National.

Adams, N. E., Gaffney, M. A., & Lynn, V. A. (March 24, 2017). "What Counts as Knowledge?: Concrete Examples of an Abstract Concept from the ACRL Framework for Information Literacy," Biannual Conference, Association of College and Research Libraries, Baltimore, MD, peer-reviewed/refereed. National.

Adams, N. E., & Members (AAHSL Task Force on Evaluating AAMC Core EPAs). (March 23, 2017). "Can I Trust You?: Librarians' Involvement in Competency-Based Medical Education," Biannual Conference, Association of College and Research Libraries, Baltimore, MD, peer-reviewed/refereed. National.

Collins, H. (University of Kansas Medical Center), Adams, N. E., & Brennan, E. (Medical University of South Carolina (MUSC) Library, Medical University of South Carolina). (November 13, 2016). "AAHSL Task Force Investigating Librarian Involvement in AAMC Core EPA," Association of American Medical Colleges Annual Meeting, Seattle, WA, peer-reviewed/refereed. National.

Adams, N. E. (April 8, 2016). "Dialog about Psychosocial Topics in Problem-Based Learning Sessions," Annual Meeting, North East Group on Educational Affairs, Providence, RI, 40 in attendance, peer-reviewed/refereed. Regional.

Adams, N. E. (May 11, 2015). "Design and implementation of a performance-based assessment of information management and critical appraisal skills for medical students," Pennsylvania Regional Innovations In Medical Education Meeting, Thomas Jefferson School of Medicine, Philadelphia, PA, 25 in attendance, Invited. Local.

Adams, N. E. (Panel Member), Lonn, S. (University of Michigan), & Fransen, J. (University of Minnesota). (March 2015). "Learning Analytics and Privacy: Multi-Institutional Perspectives on Collecting and Using Library Data," Biannual Conference, Association of College and Research Libraries, Portland, OR, peer-reviewed/refereed. National.

Adams, N. E. (Author and Presenter, Penn State Hershey George T. Harrell Health Sciences Library). (May 18, 2014). "Theory-based Techniques for Active Learning in the Evidence-Based Medicine Classroom," Annual Conference, Medical Library Association, Chicago, IL, peer-reviewed/refereed.

Adams, N. E. (Co-Presenter, Penn State Hershey George T. Harrell Health Sciences Library), Adelman, A. (Penn State Hershey), & Zimmerman, J. (Penn State Hershey). (May 4, 2013). "Flipping The Classroom – A Method to Transform Your Lectures," 46th STFM Annual Spring Conference, Society of Teachers of Family Medicine, Baltimore, MD, 80 in attendance, peer-reviewed/refereed. National.

Tomasko, J. M. (Penn State Hershey), Adams, N. E. (Co-Author), Foley, T. T. (Penn State Hershey), Goyal, N. (Penn State Hershey), Garritano, F. (Penn State Hershey), Santos, M. C. (Penn State Hershey), Wilson, M. Z. (Penn State Hershey), Han, D. (Penn State Hershey), & Dillon, P. (Penn State Hershey). (March 22, 2012). "Designing a Single Portal eLibrary Site to Facilitate Surgical Education," Annual Conference, Association for Surgical Education, San Diego, CA. National.

Contracts, Grants, and Sponsored Research

Grants, Selected

Adams, N. E. (Co-Investigator), Volpe, R. (Principal Investigator), Wolpaw, D. R. (Co-Investigator), Grant, 10% credit, "Investigating professional identity formation across professions to inform medical education: A systematic review," Arnold P. Gold Foundation [MP], Nonprofit Foundations. Total requested: $4,923.00, Total Anticipated: $5000, Amount Funded (Total or To Date, as applicable): $5000. (Submitted: July 12, 2016, date funding awarded: October 24, 2016, total start and end of funding: September 1, 2016 - August 31, 2017.

Adams, N. E. (Co-Investigator), Green, M. J. (Co-Investigator), Shapiro, D. E. (Co-Investigator), Stuckey, H. L. (Co-Investigator), Wolpaw, D. R. (Co-Investigator), Grant, 10% credit, "Developing a Conceptual Model to Guide Implementation and Study of the Arts in Medical Education," Arnold P. Gold Foundation [MP], Nonprofit Foundations. Total requested: $6,000.00, Total Anticipated: $6000, Amount Funded (Total or To Date, as applicable): $5000. (Submitted: June 10, 2013, date funding awarded: August 21, 2013, total start and end of funding: August 30, 2013 - February 28, 2015.)

Adams, N. E. (Co-Principal Investigator), Glendinning, D. (Co-Principal Investigator), O'Rourke, K. (Co-Investigator), Moser, E. (Co-Investigator), Grant, "Development and validation of a new tool to assess knowledge and skills in Evidence-based Practice.," Northeast Group on Educational Affairs, Associations, Institutes, Societies and Voluntary Health Agencies. Total requested: $4,808.00, Amount Funded (Total or To Date, as applicable): $4808. (Submitted: September 30, 2014, date funding awarded: December 8, 2014.)

Adams, N. E. (Co-Investigator), Faber, F. Samuel (Co-Investigator), Felix, T. M. (Principal Investigator), Richard, D. C. (Co-Investigator), Grant, 25% credit, "Enhancing Teaching Methods and Evaluation of EBM and Clinical Reasoning: Faculty Development through Educational and Collaborative Efforts at McMasters University, University," Woodward Endowment, Nonprofit Foundations. Total requested: $9,820.00, Total Anticipated: $9812, Amount Funded (Total or To Date, as applicable): $9812. (Submitted: April 3, 2012, date funding awarded: April 3, 2012, total start and end of funding: April 1, 2012 - March 31,

2013).

Adams, N. E. (Principal Investigator), Grant, 100% credit, "Attendance at Supporting Clinical Care: An Institute in Evidence-Based Practice for Medical Librarians," Woodward Endowment, Nonprofit Foundations. Total requested: $1,420.00, Total Anticipated: $1420, Amount Funded (Total or To Date, as applicable): $1420. (Submitted: May 16, 2011, date funding awarded: May 16, 2011, total start and end of funding: May 15, 2011 - May 14, 2012.)

Adams, N. E. (Principal Investigator), Grant, "Library Services and Technology Act Award," Office of Commonwealth Libraries, PA, State. Total requested: $19,400.00, Amount Funded (Total or To Date, as applicable): $19000. (Submitted: September 11, 2009, total start and end of funding: May 1, 2010 - May 31, 2011.)

Robinson, C. K. (Co-Principal Investigator), Adams, N. E. (Co-Principal Investigator), Brennan, D. P. (Co-Principal Investigator), Grant, 33% credit, "Improved Access to Biomedical Information Resources via E-book Readers," National Networks of Libraries of Medicine, Middle Atlantic Region, Federal. Total requested: $7,128.00, Amount Funded (Total or To Date, as applicable): $7128. (Submitted: August 2010, total start and end of funding: September 15, 2010 - March 30, 2011.)

SERVICE, SELECTED

Committee Work at Penn State College of Medicine and Penn State University Libraries

Curriculum Working Group, Diversity and Inclusion Task Force, Co-Leader (June-July 2020).
Propose strategic priorities for PSCOM curricula to address anti-bias and structural and system racism.

Physician Assistant Curriculum Committee (PAMPEC) (2020-present)
Oversees and advises regarding curriculum in the Penn State College of Medicine Physician Assistant Program.

Student Educator Award Selection Committee, Woodward Endowment for Medical Education, Committee Member. (January 2019 - Present).
Review portfolios of student educators who are nominated for awards at College of Medicine; select final awardees with committee.

Curriculum Committee for Undergraduate Medical Education. (2017-present).
Decision-making body for curriculum offerings and policies of the MD program of the Penn State College of Medicine.

College of Medicine Admissions Team, Member. (October 2015 - 2017).
Select candidates for admission to College of Medicine.

Medical School Applicant Interviewer. (September 2014 - present).
Reviewed application materials and submitted written evaluations for these students.

Liaison Committee for Medical Education Accreditation SubGroup, Penn State college of Medicine, Committee Member. (December 2015 - July 2017).

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Collect data and write narrative for 2017 institutional self-study for the medical program of study. Lead two small subgroups for Standards 6 & 7.

Surgery Education Committee, Member. (June 2011 - July 2017).
Meet monthly to discuss issues with and improvements to surgery education at College of Medicine, specifically clerkships for medical students and surgical residency program.

AD-14 Committee, AD-14 Committee for Review of Dean of Libraries, Penn State University Provost's Office, Member. (October 2015 - January 2016).
Interviewed individuals and compiled survey data from faculty, staff, and students relating to performance of Dean of University Libraries. Synthesized information into a report that was presented to the Provost.

Evidence-Based Medicine (EBM) Curriculum Task Force, Member. (July 2015 - October 2015).
To review EBM curriculum and recommend changes to how this thread is taught in the Science of Health Systems course (required of all medical students) and other longitudinal changes integrated throughout the curriculum. Currently the only librarian on the task force; all other members are physicians and basic scientists.

Participation in Development/Fundraising Activities

Penn State College of Medicine Development, Presenter. (May 2019 - Present).
Meet with donors for the College of Medicine and present a session in which they experience a problem-based learning session as "learners."

Faculty Development

Instructor, Health Systems Science Academy. (2018-present)
Teach a session on adult education theory, including how to write effective learning objectives. This session prepared attendees to be more effective in providing training, which often is part of health care systems improvement projects.

Facilitator for Focused Teaching Project, Junior Faculty Development Program, Facilitator. (February 15, 2019).
Facilitate small groups of participants as they present a mini-teaching session to others in group; provide constructive feedback to each participant.

Junior Faculty Development Program, Mentor. (December 1, 2014 - May 2015).
Asked to serve as mentor for junior faculty in Penn State College of Medicine in formal Junior Faculty Development Program.

Search Committee for Harrell Health Sciences Library Associate Dean, Member. (July 2018 - November 2018).

Faculty Governance

Library Faculty Organization, Chairperson, Elected. (May 1, 2013 - April 29, 2014).
Heard concerns of library faculty (130 throughout Commonwealth) and worked to resolve them through means available to LFO. Oversaw several standing committees of LFO and communicated with library faculty throughout system. All told, a three-year commitment including chair-elect and immediate past chair.

Service to the Disciplines and to the Profession

External evaluator for teaching award

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Reviewer, Case Western Reserve Scholarship in Teaching Award, Case Western Reserve University School of Medicine, External Reviewer, Regional. Cleveland, Ohio. (January 2019 - Present).
Review applicant descriptions of teaching projects to evaluate their scholarly approach to the project according to stated criteria. I have done this in 2019 and 2020.

Organizing Conferences and Service on Conference Committees

Medical Library Association, Garfield Research Fellowship Jury, Chairperson, International. (June 1, 2016 - May 31, 2017).
Select recipients of this competitive fellowship award.

Adult Education Research Conference, Co-Chairperson, National. Hershey, PA USA. (January 2013 - June 4, 2014).
Co-chaired and planned this one-day pre-conference with Dr. Elizabeth Tisdell of Penn State Harrisburg.

Association of College and Research Libraries, Professional Development Coordinating Committee, Virtual Institutes Committee, Member, National. (Virtual). (January 2010 - July 2012).
Create, implement, and evaluate ACRL virtual institute for 2012. Develop theme(s), identify co-sponsor(s), draft call for participation and selection criteria.

Participation in or Service to Professional and Learned Societies

AAHSL Task Force on Competency-Based Medical Education, American Association of Health Sciences Libraries, Member, National. (May 30, 2016 - November 2018).
•Identify AAHSL libraries that are participating to a significant degree in incorporating Core EPAs in the medical education curriculum, through design, development, teaching, evaluation, and/or similar engagement.
•Develop a methodology to characterize the nature and depth of the participation.
•Map and cross-reference existing ACGME, AAMC, LCME, and other evidence-based medicine competencies as identified by the Task Force. Identify gaps in EBM competencies.
•Compose a white paper or similar work for publication on the state of the art of librarians' roles and involvement in all phases of competency-based medical education. Include recommendations for additional work that is needed (e.g., developing standard definitions of EBM concepts, translating EBM concepts into teachable components, evaluation of the effectiveness of EBM curriculum.)

Association for College and Research Libraries Research Planning and Review Committee, Vice Chair, National. (July 1, 2017 - August 30, 2017).
Responsible for creating and updating a biennial environmental scan for the association that encompasses trends in academic librarianship, higher education, and the broader environment, e.g., economic, demographic, political, for release at the ACRL conference. Identifies the "ACRL Top 10 Trends" for release every two years in non-ACRL conference years.

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