

Dr. Gary L. Ackerman
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<https://hackscience.education>

Professional Positions:

I have worked in education for more than 30 years, beginning my career as a science and math teacher before becoming a full-time educational technology professional. In my work, I have developed the capacity to create engaging technology-rich activities for all learners in all subject areas.

July 2021- present Director, Teaching and Learning Innovation

February 2019-June 2021 Coordinator of Instructional Technology

Greenfield Community College, Greenfield, MA

- Manage Moodle for approximately 2000 users
- Evaluate and deploy upgrades and extensions to Moodle
- Consult with faculty in all areas to use classroom and online technologies
- Lead initiatives to improve course quality and accessibility
- Advocate for faculty within the information technology department
- Supervise staff responsible for classroom technology and learning experience design
- Collaborate with faculty steering committee and faculty fellow on professional development planning
- Develop and maintain web resources for professional learning and productivity
- Manage redesign and installation of video conferencing spaces

July 2020-June 2021 Learning Design Consultant (part-time, temporary)

Castleton University, Castleton, VT

- Supported faculty in their use of Canvas for remote teaching
- Planned and delivered virtual and self-paced workshops for faculty
- Developed materials using Articulate

July 2018-January 2019 Educational Consultant

Independent Contractor, Rutland, VT

- Developed open educational resources
- Edited educational manuscripts
- Led efforts to increase problem-based math curriculum

July 2017-June 2018 Flexible Pathways Coordinator

Windsor School, Windsor, VT

- Supported internships, early college courses, independent studies, community-based education, and similar activities for high school students
- Created web-based spaces for program management and administration

May 2015-August 2017 Educational Technology Specialist (part-time, temporary)

Mount Wachusett Community College, Devens, MA

- Supported internships, early college courses, independent studies, community-based education, and similar activities for high school students
- Created web-based spaces for program management and administration

July 2014-June 2017 Digital Project Leader (80%)

Rivendell Academy, Orford, NH

- Supported technology-rich teaching and learning, especially critical explorations
- Deployed and managed LMS and electronic portfolio platforms
- Developed tools to manage online curriculum
- Expanded multimedia projects throughout the school
- Managed laptops deployed in one-to-one initiative along with Macintosh and PC desktops

September 2013-June 2014 Technology Integration Specialist & Coordinator
Rutland Southwest Supervisory Union, Poultney, VT

- Mentored K-12 faculty in technology-rich teaching and learning
- Provided support and system administration for Windows, Macintosh, and iOS
- Collaborated with administrators on planning, budget, and similar decisions
- Managed transition from Exchange to Gmail and replacement of servers

July 2012-August 2013 Director of the Center for Teaching and Learning
Mount Wachusett Community College, Gardner, MA

- Managed Blackboard for approximately 5000 users
- Mentored community college faculty in technology-rich teaching and learning
- Co-chaired multiple committees related to academic technology and professional development

December 2003-June 2012 Technology Teacher/ Coordinator/ Integration Specialist
West Rutland School, West Rutland, VT

- Managed Windows networks; Windows, Linux, and Macintosh systems
- Installed first wireless networks
- Secured grants and other alternative funding
- Evaluated, recommended, installed, and managed SIS, OPAC, and LMS
- Supported technology-rich instruction in all grades/subjects

August 2003-November 2003 Technology Coordinator
Bennington-Rutland Supervisory Union, Manchester Center, VT

- Supported technology planning and instruction in several K-8 schools

September 2002-June 2003 Math Teacher
The Dorset School, Dorset, VT

September 1994-June 2002 Math/ Computer Teacher
Rutland Middle School, Rutland, VT

September 1992-June 1994 Science Teacher
Mill River Union High School, North Clarendon, VT

September 1988-June 1992 Science Teacher
Lamoille Union High School, Hyde Park, VT

Higher Education Teaching:

For more than 20 years, I have served as an adjunct instructor for both graduate courses and undergraduate students; much of this teaching has been in online environments. A sample of my teaching is provided here.

Mount Wachusett Community College, Gardner, MA

- Various CIS courses since 2012, College Access Challenge, Spring 2013, Statistics, Fall 2012

St. Thomas University, Miami, FL

- Media Design and Development, December 2016-May 2017

University of Vermont, Burlington, VT

- Information Technology for School Library and Media Centers, 2000-2006

College of St. Joseph in Vermont, Rutland, VT

- Computers in the Classroom, 1998-2003

Technology Skills:

- Certified AWS Cloud Practitioner (current)
- Media design, including video (Premier Pro) and SCROM (Captive and Articulate) (current)
- LMS administration (current)
- Management and integration of mobile devices (current)
- Educational applications of social media (current)
- Training and support for stand-alone, LAN, and cloud-based solutions (current)
- Evaluation and implementation of open-source solutions (current)
- Maintaining accessible, mobile compatible, and FERPA compliant web presence (current)
- Data management, analysis, and presentation for classroom, program, and institutional assessment (current)
- Assessment of and redesign of digital information for accessibility (current)
- Quality online course design (current)
- End users support and installation of audio-visual systems (current)
- End user support for Windows, Macintosh, iOS devices (current), Linux (more than 3 years ago)
- Windows network administration, including Active Directory (more than 3 years ago)
- Planning, installation, and management of wireless networks, SIS, OPAC (more than 3 years ago)
- Administration of Google Apps for Education (more than 3 years ago)

Professional Service:

Throughout my career, I have led and supported the operation so of professional organizations; more recently, my service to the professional has extended to serving on editorial boards.

Member of editorial board for *Journal of Educational Studies and Multidisciplinary Approaches* and *International Journal of Modern Education Studies* since May 2021

Member of editorial board for M Grasseti and J. Zoino-Jeannetti (Eds.). (2020). *Next generation digital tools and applications for teaching and learning enhancement*. IGI-Global.

MERLOT, California State University

- Instructional Technology Editorial Board, 2018-2020

Member of editorial board for M Grasseti and S. Brookby (Eds.). (2017). *Advancing next-generation elementary teacher education through digital applications*. IGI-Global.

New England Education Research Organization, Boston, MA

- Web master, 2012-2015
- Co-Leader, Curriculum and Instruction Strand, Annual Conference, 2012-2015

New England League of Middle School, North Andover, MA

- Board of Directors, 2007-2009
- Technology Committee, 2003-2009; Chair, 2007-2009

Rutland Central Supervisory Union, Rutland, VT

- Chair, Technology Steering Committee, 2006-2008

Rutland Region Education Alliance, Rutland, VT

- Capstone Leadership Team, 1999-2003

Vermont Information Technology Association for the Advancement of Learning, Montpelier, VT

- Chair of Southwest Regional Group & Board of Directors, 1998-2002

Education:

I hold three degrees; while earning each, I conducted original research in my field.

Doctor of Philosophy in Education, 2009, Northcentral University, Prescott, AZ
Master of Arts in Education, 2000, Castleton State College (now University), Castleton, VT
Bachelor of Science in Education, 1988, University of Vermont, Burlington, VT

Recent Professional Presentations:

I believe sharing my work with the larger educational community is an important professional responsibility. I have given more than 30 presentations at regional and national conferences; a sample of my recent presentations is provided.

The Discovery of a Typology for Professional Development
New England Educational Research Organization, April 2021

Spinning Up Online Courses
Teaching Learning and Student Development Conference, April 2021

Training, Planning, Designing: Purposeful Professional Development
Association for Educational Communication and Technology, November 2020

Accessing Online Content for Teaching Mathematics (co-presenter)
Universal Design and ADA Best Practices (co-presenter)
Virtual Valley Conference, August 2020

Planning and Leading for Innovative Technology
Teaching and Learning and Student Development Conference, April 2018

Technology in Support of Diverse Assessment
Association for Educational Communication and Technology, November 2017

Training to Education: Supporting New Instructors
Massachusetts Colleges Online Annual Conference, June 2016

Selected Writing & Research:

This sample illustrates the research and publications that comprise my scholarly life.

Ackerman, G. (2020). A typology for professional development. In M. Grassetti & J. Zoino-Jeannetti (Eds.), *Next generation digital tools and applications for teaching and learning enhancement*, (pp. 180-200). IGI-Global.

Ackerman, G. (2020). Leadership and the adoption of innovative planning. In J. O'Connor (Ed.), *Strategic planning in PK-12 settings*, (pp. 65-81). IGI-Global.

Ackerman, G. (2018). Open source online learning in rural communities. In I. Bouchrika, N. Harrati, and P. Vu. (Eds.). *Learner experience and usability in online education*. Hershey, PA: IGI-Global.

Ackerman, G. (2018). *Efficacious technology management: A guide for school leaders*. Rutland, VT: author. (This work is available under a Creative Commons license and has been reviewed on OER sites.)

Ackerman, G. (2017). Strategies to increase technology acceptance. In M. Grasseti and S. Brookby (Eds.). *Advancing next-generation elementary teacher education through digital applications*. IGI-Global.

Ackerman, G. (2015). *Technology-rich teaching: Classrooms in the 21st century*. University Press of America.

Ackerman, G. (2014). Turning the flipped classroom upside-down. *AMLE Magazine* 1(8), 44-5.

Ackerman, G. (2011). *Instrument to measure Unified Theory of Acceptance and Use of Technology*. [https:// sites.google.com/site/utauttest/home](https://sites.google.com/site/utauttest/home).

Ackerman, G. (2011 March 8). Bridging 21st century gaps: An essay review of *Mehlenbacher's Technology and Instruction*. *Education Review*, 14(8).

Ackerman, G. (2006). Technology for *Turning Points*. *Journal of the New England League of Middle Schools*, 18(1), 22-6.

Ackerman, G. (ed.). (2002). *Electronic personal development collections: A resource CD for educators*. Rutland, VT: Rutland Region Education Collaborative.

Ackerman, G. (1987). *The effects of pruning on lateral growth of Pinus resinosa*. (Unpublished Manuscript). Botany Department, University of Vermont, Burlington, VT.

Ackerman, G., & Offenhardt, S. (1986). *The effects of cadmium on nodule formation in legumes* (Unpublished manuscript). Botany Department, University of Vermont, Burlington, VT.

**Gary's complete CV is available from the link at:
<https://hackscience.education/about-gary/>**

**Gary's blog provides evidence of his approach to education, teaching, and technology:
<https://hackscience.education/hsblog/>**