Ervin M. Howard, PhD

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RESEARCH INTERESTS

- Instructional design for online and hybrid learning environments

- Professional development for faculty in higher education

- Cognitive load theory in mathematics education

- Artificial intelligence integration in online teaching and learning

- Technology-enhanced learning for STEM and pre-service teacher education

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EDUCATION

Doctor of Philosophy in Education
Specialization: Instructional Design for Online Learning
Capella University, Minneapolis, MN — June 2014
Dissertation: *Understanding Undergraduate College Students' Perceptions About Using Cognitive Load Strategies in Solving Exponential Expressions*
Advisor: Dr. [Name]

Master of Arts in Education
Specialization: Instructional Technology-Computers
East Carolina University, Greenville, NC — May 2002

Certification Requirements in Mathematics Teaching
Elizabeth City State University, Elizabeth City, NC — May 1993

Bachelor of Science in Computer Science
Specialization: Computer & Information Science
Elizabeth City State University, Elizabeth City, NC — May 1988

PROFESSIONAL EXPERIENCE

Instructional Designer / Professional Development Coordinator

University of North Georgia, Watkinsville, GA — 2019–Present

- Designed multimedia-based teaching strategies for online and hybrid instruction
- Led course design orientations and Quality Matters reviews
- Created and facilitated professional development workshops including a certification series on *AI in Learning*.
- Mentored faculty in applying instructional design principles for online pedagogy and course conversion
- Supported the DETI Webinar Series and APPQMR workshops
- Using media creations to post as announcements of workshops and webinars to social media platforms.

High School Mathematics Teacher

Pasquotank County High School, Elizabeth City, NC — 2018-2019

- Taught several core mathematic classes: Foundations in Mathematics, Algebra I & Algebra II
- Setup online Canvas course shells where students submit review mathematical content, view customized instructor-led video lessons, submit assignments

- Setup and created the **Panther Math website** for students to review instructional video demonstrations: https://emhwebs.com/PMC2/

Instructional Designer / Education Lead

Norfolk State University, Norfolk, VA — 2016–2017

- Led instructional design for online programs and master course templates

- Developed faculty training, certification programs, and policy guidance

- Supervised staff and monitored budgets for distance education projects

- Conducted design reviews and maintained course development documentation

- Served as the university's quality assurance coordinator

Adjunct Faculty (Continuing Educational Specialist)

University of North Carolina, Chapel Hill, NC — 2006–2020
Courses: *SPC CSC 115 Computer Science*, *SPC GE 118 Pre-Calculus*

- Designed and taught self-paced C++ and Pre-Calculus courses

- Delivered instruction in distance and online modalities

Faculty Roles (2001–2014)

Elizabeth City State University, Elizabeth City, NC
Courses: Instructional Technology, Algebra, Pre-Calculus, Math Praxis, Early Field Experience

- Taught undergraduate courses in blended and online formats

- Participated in NCATE/CAEP accreditation and multiple academic committees

- Developed multimedia content using Blackboard and YouTube integrations

Technology Assistant / DOT Intern

Elizabeth City Middle School, Elizabeth City, NC — 1993–2002

- Provided technical support, network administration, and multimedia training for K–12 faculty

- Facilitated live broadcast operations and T-1 internet systems

Product Support Representative

Canon Computer Systems Inc. — 1995–1999

- Delivered tier-2 technical support and hardware/software troubleshooting

- Contributed to Oracle-based customer service data entry and resolution

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PUBLICATIONS

Babb, D., & Howard, E. (2022). *FLOC, Facilitating Learning Online Certification Workshop*. *The Online Journal of Distance Learning Administration*, 24(4), 1–7. https://ojdla.com/articles/floc-facilitating-learning-online-certification-workshop-part-of-the-micro-credential-series-for-online-teaching-certification

*Babb, D., & Howard, E. (2023). *Explore UNG's Self-paced Professional Development Workshops*. *The Online Journal of Distance Learning Administration*, 25(1), 1–12. https://ojdla.com/articles/explore-ungs-self-paced-professional-development-workshops-an-update-on-our-micro-credential-series-for-online-teaching-certification

Howard, E. (2006). *GE 118 Pre-Calculus Self-Paced Course Manual*. University of North Carolina.

* Awarded the Best Paper Award by the Online Journal of Distance Learning Administration.

RESEARCH PROJECTS & COLLABORATIONS

- **Center for Remote Sensing of Ice Sheets (CReSIS)**
  Elizabeth City State University, Elizabeth City, NC — June 2014
  Participated in a multidisciplinary research initiative focused on global climate and remote sensing. Completed GPS/GIS Training Workshop.
  http://cerser.ecsu.edu/cresis/cmsp2014/collage-GPS.html
- NASA Innovations in Climate Education (NASA-NICE)
  Elizabeth City State University, Elizabeth City, NC — 2012–2016
  Developed K–2 climate change lesson plans using the Technology Integration Planning (TIP) Model.
  http://nia.ecsu.edu/nice/2013/fall2013lessons/
  Designed STEM integration activities for EDUC 203: Introduction to Computer Instructional Technology.
  http://nia.ecsu.edu/nice/2013/stem_connect/
  Facilitated a GPS Workshop for preservice teachers to enhance climate education with NASA Earth data.
  http://nia.ecsu.edu/nice/2012/121025gps/

- GLOBE (Global Learning and Observations to Benefit the Environment) Program
  Elizabeth City State University, Elizabeth City, NC — 2002–2003
  Received training in GLOBE Hydrology Protocols.
  http://nia.ecsu.edu/nrts/2002events/102302globe/globe.html
  http://nia.ecsu.edu/nrts/2003events/120303hydro/hydro.html

Led pilot GLOBE activities at local middle and high schools to introduce students to environmental science.
http://nia.ecsu.edu/nrts/2003events/021303globe/globe.htm
http://nia.ecsu.edu/nrts/2003events/020603globe/globetrigg.htm
http://nia.ecsu.edu/nrts/2001events/cw_web/cws2001.html

TEACHING EXPERIENCE

- Courses taught: *Computer Science, Algebra, Pre-Calculus, Instructional Technology*

- Online teaching using platforms like Blackboard and Canvas

- Curriculum development for self-paced and hybrid courses

- AI integration workshops in online teaching & self-paced course development

- Conducted iPad and Second Life training for university faculty

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GRANTS, LICENSES & CERTIFICATIONS

- **QM Quality Matters Certifications** (Facilitator, Coordinator, Reviewer, Course Design)

- **Project Management Certification** – University of Adelaide, 2018

- **Accessibility Webinars** – Great Lakes ADA Center

- **North Carolina State Board License** – Instructional Technology & Mathematics (K–12)

PRESENTATIONS

- *NASA PSTC Conference*, Alexandria, VA — Hydrology Protocols (2003)

- *American Geophysical Union*, San Francisco, CA — Poster on Climate Change Pedagogy (2013)

PROFESSIONAL SERVICE

- Peer Reviewer: *Online Journal of Distance Learning Administration*, *Journal of Educators Online*

- Member: AECT, AGU, Geological Society of America, Kappa Delta Pi

- Committee Involvement: NCATE/CAEP Technology, Faculty Governance, Hearing Committee, SACS Undergraduate Committee

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COMMUNITY ENGAGEMENT

- Adult Sunday School Teacher, New Life Assembly of God

- Developed websites for New Life Assembly Church and McDonough First AG

- Conducted community workshops on instructional technology