Ervin M. Howard

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EDUCATION

Doctor of Philosophy in Education   June 2014
Specialization in **Instructional Design for Online Learning**
Capella University, Minneapolis, Minnesota
Dissertation Title: *Understanding undergraduate college students' perceptions about using cognitive load strategies in solving exponential expressions*

Master of Arts in Education   May 2002
Specialization in **Instructional Technology-Computers**
East Carolina University, Greenville, North Carolina

Certification Requirements   May 1993
Specialization in **Mathematics Teaching**
Elizabeth City State University, Elizabeth City, North Carolina

Bachelor of Science in Computer Science   May 1988
Specialization in **Computer & Information Science**
Elizabeth City State University, Elizabeth City, North Carolina

TEACHING EXPERIENCE

Faculty   2007-2014
Elizabeth City State University, Elizabeth City, North Carolina
Courses taught: *EDUC 203 Introduction to Computer Instructional Technology, EDUC 225 Explorations in Mathematics, and EDUC 170 Praxis I Math & EDUC 211A Early Field Experience for Elementary Majors: Introduction to Education*

- Teach 15-25 undergraduate students in 4 courses per semester.
- Instructed in both online and blended learning environments the principles of technology integration concepts and strategies to preservice teachers.
- Regularly meet with students outside class hours to provide additional guidance on course content.
- Managed course assignments and blended learning aspects using Blackboard.
- Created and incorporated YouTube video lectures as hyperlinks within Blackboard
- Participate regularly in department faculty meetings.
- Committee member of Elizabeth City State University's National Council for Accreditation of Teacher Education/ Council for the Accreditation of Educator

Preparation (NCATE/CAEP) Technology Committee, NCATE Standards II Committee, Faculty Governance Committee, and the Resource Allocation Committee.

Adjunct Faculty   2006-Present
University of North Carolina, Chapel Hill, North Carolina
Courses taught: *SPC CSC 115 Computer Science and SPC GE 118 Pre-Calculus*

- Created course curriculum for the design and teaching of two independent self-paced courses for the University of North Carolina at Chapel Hill.
- Instructed both online and distance learning in C++ programming and pre-calculus mathematics based on self-paced instruction.

Interim Director of Instructional Technology   2007-2008
Elizabeth City State University, Elizabeth City, North Carolina
Courses taught: *EDUC 203 Introduction to Computer Instructional Technology*

- Teach 15-25 undergraduate students in 4 courses per semester.
- Instructed in both online and blended learning environments the principles of technology integration concepts and strategies to preservice teachers.
- Regularly assisted faculty members with trouble-shooting issues in software applications and Blackboard courseware management.
- Assisted faculty members and students in the infusion of technology and instruction with specific emphasis on computer and multimedia applications.
- Assisted faculty members in creating data reports using the LiveText electronic portfolio system.
- Managed all data downloads from LiveText in creating data displays for the Teacher Education Program and NCATE assessment reports for retention and successful graduation rates in meeting targeted teaching skills and performance of their specialty areas.

Faculty   2002-2007
Elizabeth City State University, Elizabeth City, North Carolina
Courses taught: *GE 115 College Algebra, GE 118 Pre-Calculus, MATH 141 Number Systems and Algebra, and GE 142 Geometry and Data Analysis*

- Teach 15-25 undergraduate students in 4 courses per semester.
- Instructed both online and blended learning environments for preservice teachers and non-teaching majors using Blackboard.
- Regularly meet with students outside class hours to provide additional guidance on course content.
- Participate regularly in department faculty meetings.

Adjunct Faculty   2001-2002
Elizabeth City State University, Elizabeth City, North Carolina
Courses taught: *GE 115 College Algebra*

- Teach 25-35 undergraduate students in 2 courses per semester
- Regularly meet with students outside class hours to provide additional guidance on course content.
- Instructed both online and blended learning environments for preservice teachers and non-teaching majors using Blackboard.
- Participate regularly in department faculty meetings.

Technology Assistant 1999-2002
Elizabeth City Middle School, Elizabeth City, North Carolina

- Provided on-going support of the media center and teachers utilizing computer and media equipment.
- Assisted in preparing LAN/hard disk backups for disaster recovery, hardware, and software installation.
- Maintained the SunSPARC workstation that housed the Eclipse server that operated the school's internet connection on a T-1 line.
- Maintained the Novell Network Server (Novell Client32 software 4.0).
- Coordinated telecommunications and satellite projects such as maintaining operations for students to transmit live-video broadcasts from the media center to all monitors in the classrooms.

DOT Intern 1993-1995
Elizabeth City Middle School, Elizabeth City, North Carolina

- Assisted in troubleshooting and networking setups of the Ethernet network connections for Macintosh Classics and LC computers.
- Assisted students in technical service in learning how to operate application programs such as Adobe Photoshop 3.0, Adobe PageMaker 3.0, Microsoft Works, HyperCard, and MacDraw for Apple systems.

PROFESSIONAL EXPERIENCE

Product Support Representative 1995-September 1999
Canon Computer Systems Inc.

- Provided technical support to clients and customers of Canon products via telephone, electronic support, and written communication.
- Displayed effectiveness and competence in merging service with detailed translation when troubleshooting Canon's software and peripheral devices.
- Provided workable solutions to problems of diverse scope where analysis of data requires evaluations of identifiable factors
- Displayed abroad range and high level of technical proficiency in providing solutions to Canon clientele.
- Performed data-entry of all incoming call information in call-tracking Oracle database software program application for future problem resolutions.

- Assisted in promoting database marketing to customers in purchasing Canon's inks, paper products, and accessories.
- Provided advance troubleshooting and technical support for personal computers, multifunctional units (fax, printer, and scanner combination), fax machines, bubble-jet, and laser beam printers.

PUBLICATIONS

Howard, E. (2006). *GE 118 pre-calculus self-paced course manual*. Self-Paced Courses Program of the University of North Carolina: Chapel Hill, NC.

ACADEMIC RESEARCH PROJECTS

Elizabeth City State University, Elizabeth City, North Carolina   June 2014

- CReSIS (Center of Remote Sensing of Ice Sheets) educates students within a diverse multidisciplinary researh team that focuses on global climate and remote sensing topics.
    o GPS/GIS Training workshop
      Url link: http://cerser.ecsu.edu/cresis/cmsp2014/collage-GPS.html

Elizabeth City State University, Elizabeth City, North Carolina   2012-Present

- NASA-NICE (NASA Innovations in Climate Education) to empower faculty of education programs at Minority Serving Institutions to better engage preservice teachers in teaching and learning about global change through NASA Earth observation data sets
    o Creating climate change lessons for K-2 learning using the technology integration planning model (TIP Model)
      Url link: http://nia.ecsu.edu/nice/2013/fall2013lessons/
    o STEM Connections for the EDUC 203 Introduction to Computer Instructional Technology course
      Url link: http://nia.ecsu.edu/nice/2013/stem_connect/
    o Conducted a NASA NICE GPS Workshop for preservice teachers
      Url link: http://nia.ecsu.edu/nice/2012/121025gps/

Elizabeth City State University, Elizabeth City, North Carolina   2002-2003

- GLOBE Training programs for undergraduate college students in learning environmental science through GLOBE protocol experimentation
    o GLOBE Hydrology Training
      Url link: http://nia.ecsu.edu/nrts/2002events/102302globe/globe.html
      Url link: http://nia.ecsu.edu/nrts/2003events/120303hydro/hydro.html

- GLOBE Training programs for middle and high schools in learning environmental science through GLOBE protocol experimentation
  - Conducted a pilot GLOBE program at a local community school
    Url link: http://nia.ecsu.edu/nrts/2003events/021303globe/globe.htm
    Url link: http://nia.ecsu.edu/nrts/2003events/020603globe/globetrigg.htm
    Url link: http://nia.ecsu.edu/nrts/2001events/cw_web/cws2001.html

Colgate University, New York   1993

- Parallel Processing workshop using the OCCAM language

INSTITUTIONAL SERVICE

- Committee member of the NCATE/CAEP Technology Committee   2012-2014
- Committee member of the NCATE Standards II Committee   2013-2014
- Committee member of the Hearing Committee   2010-2011
- Member of the SACS Undergraduate Committee   2009
- Conducted a professional faculty development workshops   2013-2014
  - iPad technology training
  - Introduction to Second Life

PRESENTATIONS
- NASA Pre-Service Teacher Conference (PSTC), 2003 at Alexandria, VA for presenting hydrology protocols.

POSTER PRESENTATIONS
- NASA NICE Climate Change Education: Best Practice for Incorporating Climate Change Pedagogy, 2013 at American Geophysical Union in San Francisco, California.

SPECIALIZED TRAINING
- KSR1 Training for AASERT training.   1994
  (Argumentation Award for Science and Engineering Research)

PROFESSIONAL LICENSES

North Carolina State Board License: Department of Public Instruction

- Program Code/Status: Standard Professional II
  Code/Area: Instructional Technology-Specialty. Telecommunications (K-12)
  Effective Date: 06/26/2008
  Date Expiration: 06/30/2013

- Program Code/Status: Standard Professional I
  Code/Area: Mathematics (Grades 9-12)
  Effective Date: 06/26/2008
  Date Expiration: 06/30/2013

- Program Code/Status: Standard Professional II
  Code/Area: Instructional Technology-Specialty. Telecommunications (K-12)
  Effective Date: 07/01/2013
  Date Expiration: 06/30/2018

- Program Code/Status: Standard Professional I
  Code/Area: Mathematics (Grades 9-12)
  Effective Date: 07/01/2013
  Date Expiration: 06/30/2018

PROFESSIONAL AWARDS/RECOGNITION

- Member of the Geological Society of America (GSA)   2014
- Member of the American Geophysical Union (AGU)   2013
- Association for Educational Communications and Technology (AECT)   2010
- Member of the Kappa Delta Pi Honor Society in Education   2004
- Cambridge Who's Who Among College Professors& Instructors-   2006 - 2007
- East Carolina University Kappa Delta Pi Honor Society in Education   2001
- Recipient of an ONR/NSA Research Award   1994
- Recipient of the Argumentation Award for Science and Engineering Research Training
  Program   1994
- Who's Who Among College Students-   1993
- Who's Who Among College Students   1992
- Recipient of the North Carolina Non-Service Scholarship   1984-1988
- Graduated Cum Laude/Elizabeth City State University   1988
- North Carolina State Government Summer Internship Program Recipient 1987

COMMUNITY INVOLVEMENT

- Member of New Life Assembly of God Church (Assemblies of God)
- Sunday School Teacher of biblical learning for the Adult Education class

- Former Webmaster & Designer of the New Life Assembly Church website
  Url link: http://www.newlifeassemblyec.com
- Webmaster & Designer of the McDonough First Assembly of God Church website
  Url link: https://mcdonoughfirstag.org/
- Conducted a community technology summer workshop at Elizabeth City State University
  Url link: http://nia.ecsu.edu/nrts/2001events/cw_web/cws2001.html
- Assisted in a technology outreach program at a church in Windsor, North Carolina
  Url link: http://nia.ecsu.edu/nrts/2003events/122203wndsr/nrts_windsor.htm