

Curriculum Vitae
Jeri R. Hanly

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Citizenship: United States of America

ATTRIBUTES

- Experienced computer science educator and C/C++ textbook author
- Knowledgeable in object-oriented analysis, design, and programming
- Adept at learning new languages and new technologies
- Outstanding communicator—in writing, one-on-one, and in a public-speaking setting
- Committed to design and implementation of software that is readable and easy to maintain/upgrade

EDUCATION

University of Wyoming Laramie, WY
Master of Science in Computer Science

- G.P.A. = 4.0 (A = 4.0)
- Area of concentration: Computer Systems
- Master's Thesis: "A Symbol Table Organization for an Ada Compilation Unit"

University of Michigan Ann Arbor, MI
Master of Arts in Romance Languages (French)

- G.P.A. = 8.33 (A = 8.0, A+ = 9.0)
- Bryn Mawr-sponsored summer study abroad program Avignon, France

University of South Alabama Mobile, AL
Bachelor of Science in Education (summa cum laude)

- G.P.A. = 3.94 (A = 4.0)
- Major: French; Minor: Russian
- Indiana University-sponsored study abroad program Russia and Ukraine

PROFESSIONAL EXPERIENCE

Loyola College in Maryland Baltimore, MD
Affiliate Instructor in Computer Science 2004-Present

Courses Taught:

- Introduction to Computers with Software Applications (Visual Basic, MS Excel, Access, PowerPoint)
- Data Structures and Algorithms I (with C++ in 2004, with Java in 2005)
- Computer Science I (with Java)
- Principles of Programming Languages

Administrative & Committee Appointments:

- Lab Assistant Coordinator 2004-present
- Assessment Committee Member 2005-present

Howard University Washington, DC
Lecturer in Systems and Computer Science 2002-2004

Courses Taught:

- Object-oriented analysis, design, and programming in C++

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- Elementary data structures
- Elementary computation (Fortran)

Administrative & Committee Appointments:

- Howard University Fund for Academic Excellence Grant Reviewer 2003-2004
- Systems and Computer Science Undergraduate Curriculum Committee Member 2003-2004
- Editor of grant proposals, tenure files 2002-2004
- Undergraduate Advisor 2003-2004

University of Wyoming

Laramie, WY
1980-2002

Lecturer in Computer Science (Named Lecturer Emerita in 2002)

Courses Taught:

- Object-oriented analysis, design, and programming in C++
- Introductory and intermediate programming in C, Fortran, Pascal, PL/I, Basic
- Computer literacy
- Topics in discrete mathematics: logic and sets, relations and functions, combinatorics, undirected and directed graphs, Boolean algebra, algorithm correctness proofs
- AI programming languages: CLOS (Common Lisp Object System), SNOBOL, PROLOG
- Principles of programming languages: binding times, scope and lifetime of variables, memory management and garbage collection, description of syntax and semantics, subprogram implementation, comparison of functional, logic, procedural and object-oriented languages
- Machine organization, assembly language programming, and loader construction
- Computer science orientation: introduction to university life

Externally funded research (see grants for details):

- Rule-based multi-sensor target analysis
- Theorem-proving-based ship-recognition reasoning system
- Object-oriented system with GUI for building testing environments

Administrative & Committee Appointments:

- Computer Science Advising Coordinator 1995-2002
- Computer Science Transfer Student Advisor 1997-2002
- Computer Science Undergraduate Committee Chair 2001-2002, Member 1986-1991
- Dean's Advisory Committee, Computer Science Department Head Search 2000
- Computer Science Faculty Search Committees 1996, 1997
- Computer Science Honors Committee Chair 1993
- Computer Science Colloquium Committee Chair 1986-1993
- University Student Financial Aid Committee 1990

Addison-Wesley Publishing Company

1991-Present

Author/Co-author of three C/C++ textbooks (14 editions) for this leading educational publisher (see publications)

IBM US Education

1988-1991

Contract Instructor for one-week software engineering courses taught at IBM development sites in Arizona, California, Colorado, Florida, Georgia, Kentucky, Minnesota, New Jersey, North Carolina, and Canada, and on CENET (Corporate Education Satellite Network):

- Improved Programming Technologies—Fundamentals of process and data modeling; top-down design and stepwise refinement, module coupling and cohesion
- Structured Analysis and Design Techniques—Survey of diagramming techniques for software design: Warnier-Orr diagrams, Nassi-Schneiderman charts, data flow diagrams, structure charts, entity-relationship diagrams

Target Recognition Systems Branch, Naval Air Warfare Center

China Lake, CA
1984-1988

Computer Scientist

- Knowledge-based system for multi-sensor target analysis
- Rule-based pilot's associate system to handle sensory input analysis and sensor control on a naval aircraft

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- Reasoning system for ship recognition using symbolic descriptions of models and features extracted from ISAR data
- Object-oriented shell with GUI for building testing and evaluation environments

HONORS AND AWARDS

- Honored Member, Strathmore's Who's Who 2003-2004
- Emeritus Status for Distinguished Service, Dept. of Computer Science, University of Wyoming 2002
- Marquis Who's Who in Science and Engineering 2002
- Marquis Who's Who in the West 1996
- Extraordinary Merit in Advising, University of Wyoming (awarded twice, \$1000 each) 1995-96 & 1998-99
- Provost's Excellence in Advising Award, University of Wyoming (awarded four times) 1996, 1997, 1998, 2000
- Phi Kappa Phi National Honor Society 1983

PROFESSIONAL MEMBERSHIPS

- Association for Computing Machinery 1987-Present

FOREIGN LANGUAGE SKILLS

- French (fluent)
- Russian (conversant)

GRANTS

- Boeing Computer Support Services (Ridgecrest, California) 1990-1992
 - *Enhancement environments and development of image understanding algorithms*
 - **Amount: \$52,300**
- Computer Sciences Corporation (Ridgecrest, California) 1988-1990
 - *Enhancement of a theorem proving-based classifier using inverse synthetic aperture radar data and design of a shell for building development and testing environments*
 - **Amount: \$73,220**
- Naval Air Warfare Center (China Lake, California) 1985-1987
 - *Rule-based multi-sensor analysis*
 - **Amount: \$24,000**

PUBLICATIONS

Textbooks

1. **Jeri R. Hanly**, Elliot B. Koffman. Problem Solving and Program Design in C. Reading, MA: Addison-Wesley Publishing Company.
 - First edition (with second co-author Frank L. Friedman) 1993
 - Japanese-language edition 1993
 - Second edition 1996
 - Chinese-language (Mandarin) edition 1996
 - International Student edition 1998
 - Third edition 1999
 - Third edition update 2002
 - Fourth edition 2004

Curriculum Vitae
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This text has been widely used throughout the United States and around the world in introductory programming classes using the C language. Its focus is traditional top-down algorithm development through stepwise refinement and readable coding using a subset of C.

2. **Jeri R. Hanly**, Elliot B. Koffman. C Program Design for Engineers. Reading, MA: Addison-Wesley Publishing Company.
 - First edition (with Joan C. Horvath) 1995
 - Second edition 2001

This text is designed for use in engineering and science curricula that include just one programming course, a course that may also introduce the basics of numerical methods. It is also used in universities throughout the United States and around the world.
3. **Jeri R. Hanly**. Essential C++ for Engineers and Scientists. Reading, MA: Addison-Wesley Publishing Company.
 - First edition 1997
 - Chinese-language (Mandarin) edition 1997
 - Second edition 2002
 - Chinese-language second edition 2004

This text is also designed for use in engineering and science curricula that include just one programming course, a course that may also introduce the basics of numerical methods. It too is used in universities in the United States and around the world.

Technical Memoranda

1. **Jeri R. Hanly**, Jesse L. Hodge, David H. Dekruger. Enhanced LISP Data Structure Package. NWC TM 5891, 1986.
2. **Jeri R. Hanly**, Jesse L. Hodge, David H. Dekruger. Inference Engine for Rule-Based Systems Using Procedural Knowledge and Dynamic Data. NWC TM 5899, 1986.
3. **Jeri R. Hanly**, Jesse L. Hodge. Rule-Based System for Cockpit Multisensor Analysis. NWC TM 5922, 1986.

INTERESTS

Reading, children/grandchildren, foster parenting, prison ministry, piano, violin, church chancel choir, handbell choir, skiing, hiking

REFERENCES

Dr. Michael Magee	Southwest Research Institute San Antonio TX	Phone: 210-522-6938 E-mail: mmagee@swri.edu
Dr. Stanley R. Petrick	Former Head, Computer Science University of Wyoming, Laramie WY	Phone: 307-742-8856 E-mail: petrick@uwyo.edu
Dr. Ronald J. Leach	Chair, Systems and Computer Science Howard University, Washington DC	Phone: 202-806-6595 E-mail: rjl@scs.howard.edu
Annette (Bergman) DeMay	Computer Scientist, Target Recognition Naval Air Warfare Center, China Lake CA	Phone: 760-939-8756 E-mail: DeMayAF@navair.navy.mil