

## David Freeman Jackson

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### Education

Ed. D., 1990, University of Michigan, Ann Arbor.

School of Education, Program in Curriculum, Teaching, and Psychological Studies.

Major field: Science Education. Minor field: Educational Technology.

Dissertation: Semi-automated Data Analysis using Sequence Comparison Algorithms:

Computer-assisted Problem Solving with Graphs.

Advisor and Dissertation Chair: Prof. Carl F. Berger.

A. B., 1982, cum laude in general studies, Harvard University, Cambridge, MA.

Field of concentration: Geological Sciences.

Advisor: Prof. Stephen Jay Gould.

Westhill High School, Stamford, CT, graduated 1977.

### Experience

Graduate Coordinator, 2002-present.

Associate Professor, 1996-present. Date of appointment: Sept. 18, 1996.

Assistant Professor, 1990-1996.

College of Education, University of Georgia, Athens, GA.

Department of Mathematics and Science Education, 2004-present.

Science Education Department, 1990-2004.

Courses taught:

Middle School Earth/Life Science Teaching (undergraduate level)

Middle School Physical Science Teaching (undergraduate level)

Physical Science [content] for Middle School Teachers (undergraduate level)

Technology in Science Teaching (undergraduate/masters level)

Internship in Science Education (Student Teaching; undergraduate/masters level)

Curriculum Planning in Science Education (masters level)

Introduction to Research in Science Education (masters/specialist level)

Technology in Science Education (specialist/doctoral level)

Research Seminar in Science Education (doctoral level)

Major research interests:

Teaching of historical geology and evolutionary biology

Middle school science teaching and teacher education

Use of electronic technologies in science teaching

Teaching Assistant, 1987-1989.

School of Education, University of Michigan, Ann Arbor.

Courses taught:

Research and Educational Practice (graduate level)

Supervisors: Profs. Valerie Lee, Carl Berger.

Intellectual History of Education I and II (graduate level)

Supervisors: Profs. David Angus, Frederick Goodman, Samuel Meisels.

Research and Teaching Assistant, 1986-1990.

Office of Instructional Technology, University of Michigan, Ann Arbor.

Computer Applications Program, Detroit Public Schools.

Supervisors: Prof. Carl Berger (UM), Ms. Billie Jean Edwards (DPS)

Computer Curriculum Coordinator, 1985-1986.

The Agnes Irwin School, Rosemont, PA.

Joseph Klingenstein Fellow, summer 1985.

Teachers College, Columbia University, New York, NY.

Science Teacher, 1983-1986.

The Agnes Irwin School, Rosemont, PA.

General Science, Earth Science, Physical Science, Geology; Grades 5, 7, 9, 11 & 12.

Coach, High School Soccer Club

Middle School Teacher, 1982-1983.

Breck School, Minneapolis, MN.

General Science, American History, Grade 5 & 6.

Coach, High School Girls Junior Varsity Soccer, Middle School Intramural Program.

Research Assistant, 1979-1981.

Department of Invertebrate Paleontology, Museum of Comparative Zoology.

Harvard University, Cambridge, MA.

Supervisor: Prof. Stephen Jay Gould.

Undergraduate Research Fellow, summer 1979.

Department of Invertebrates, American Museum of Natural History, New York, NY.

Supervisor: Dr. Niles Eldredge

Tutor, 1977-1980.

Harvard-Roxbury Schools Program, Roxbury High School, Boston, MA.

All subjects, primarily Mathematics and English.

## Publications

### Manuscripts submitted for publication

Alvermann, D. E., Rezak, A. T., Mallozzi, C. A., Boatright, M. D., and Jackson, D. F. (2007) Reading the science domain: Teacher identity formation during an online content literacy course. Manuscript submitted for publication.

### Refereed Publications

Jackson, D. F. (2007). The personal and the professional in the teaching of evolution. In L. S. Jones & M. J. Reiss (Eds.), *Teaching about scientific origins: Taking account of creationism* (pp. 161-181). New York: Peter Lang.

Jackson, D. F. (2002). The computer as formalizer of inquiry: Valuable tool, oppressive limitation, or all in the hands of the teacher?. In D. J. Tippins, T. R. Koballa, Jr., & B. D. Payne (Eds.), *Learning from cases: Unraveling the complexities of elementary science teaching* (pp. 155-156). Boston: Allyn and Bacon.

Oliver, J. S., Jackson, D. F., Chun, S., & Kemp, A. (2001). The concept of scientific literacy: A view of the current debate as an outgrowth of the past two centuries. *Electronic Journal of Literacy through Science, 1*(1).  
[http://sweeneyhall.sjsu.edu/ejls/archives/scientific\\_literacy/oliver.htm](http://sweeneyhall.sjsu.edu/ejls/archives/scientific_literacy/oliver.htm)

Kim, T.-K., Jackson, D. F., Yarger, D. N., & Boysen, P. J. (2000). Principles for the design and use of simulations in science learning as exemplified by a prototype microworld. *Journal of Computers in Mathematics and Science Teaching, 19*, 237-252.

Jackson, D. F. (2000). Thomas Kuhn's formative impact at a personal, academic, and professional level on a science educator. *Science and Education, 9*, 208-209.

Meadows, L., Doster, E. C., & Jackson, D. F. (2000). Managing the conflict between evolution and religion. *The American Biology Teacher, 62*, 102-107.

Jackson, D. F. (2000). With a little technology, can at-risk students succeed?. In T. R. Koballa, Jr. & D. J. Tippins (Eds.), *Cases in middle and secondary science education: The promise and dilemmas* (p. 207) Columbus, OH: Prentice-Hall.

Jackson, D. F. (2000). Making the most of limited computer technology with at-risk middle school students. In T. R. Koballa, Jr. & D. J. Tippins (Eds.), *Cases in middle and secondary science education: The promise and dilemmas* (pp. 201-206) Columbus, OH: Prentice-Hall.

Doster, E. C., Jackson, D. F., & Smith, D. W. (1997). Modeling pedagogical content knowledge in physical science for prospective middle school teachers: Problems and possibilities. *Teacher Education Quarterly, 24*(4), 51-65.

- Jackson, D. F. (1997). Case studies of microcomputer and interactive video simulations in middle school earth science teaching. *Journal of Science Education and Technology*, 6, 127-141.
- Jackson, D. F., Bourdeau, G., Sampson, A., & Hagen, T. J. (1997). Internet resources for middle school science: Golden opportunity or silicon snake oil? *Journal of Science Education and Technology*, 6, 49-57.
- Butts, D. P., Jackson, D. F., Oliver, J. S., Bellamy, M. L., & Frame, K. (1997). An evaluation study of the teaching of hands-on investigative biology in high schools "On a Shoestring," *Education*, 118(1), 133-144.
- Jackson, D. F., Doster, E. C., Meadows, L., & Wood, T. (1995). Hearts and minds in the science classroom: The education of a confirmed evolutionist. *Journal of Research in Science Teaching*, 32, 585-611.
- Koballa, T. R., Meadows, L., Doster, L., & Jackson, D. F. (1995). Hot peppers to hurricanes: New ways to measure. *Science Scope*, 18(11), 37-41.
- Jackson, D. F., Doster, E. C., Tippins, D. J., & Rutledge, M. L. (1994). Implementing "real science" through microcomputers and telecommunications in project-based elementary classrooms. *Journal of Science Education and Technology*, 3, 17-26.
- Tippins, D. J., Kagan, D., & Jackson, D. F. (1993). How teachers translate learning theory into instruction: A study of group problem solving by prospective secondary science teachers. In P. A. Rubba, L. M. Campbell, & T. M. Dana (Eds.), *Excellence in educating teachers of science* (pp. 55-68). Columbus, OH: ERIC Clearinghouse for Science, Mathematics and Environmental Education.
- Tippins, D. J., Adams, E., & Jackson, D. F. (1993). Sea turtles and strategies for language skills. *Science Scope*, 16(4), 45-49.
- Jackson, D. F. (1993). The scientist as cracker-barrel philosopher: Implications for the concept of scientific literacy. *Interchange*, 24(1-2), 1-19.
- Jackson, D. F., Edwards, B. J., & Berger, C. F. (1993). Teaching the design and interpretation of graphs through computer-assisted graphical data analysis. *Journal of Research in Science Teaching*, 30, 483-501.
- Jackson, D. F., Edwards, B. J., & Berger, C. F. (1993). The design of software tools for meaningful learning by experience: Flexibility and feedback. *Journal of Educational Computing Research*, 9, 247-277.
- Jackson, D. F., Berger, C. F., & Edwards, B. J. (1992). Computer-assisted thinking tools: Problem solving in graphical data analysis. *Journal of Educational Computing Research*, 8(1), 43-67.

Jackson, D. F., Henderson, J., Berger, C. F., Jr., Berger, C. F., & Estell, J. K. (1988). Hardware and software for interfacing voltage-output instruments with Apple II series microcomputers. *Journal of Chemical Education*, 65(6), A150-151,154.

### Other publications

Jackson, D. F. (1999). Issues (and non-issues?) in gendered interactions among students and instructors in preservice science teacher education courses. *Gazing into the future: Proceedings of the International Gender and Science Education (GASE) Colloquium* (pp. 30-35). Parkville, Victoria, Australia: University of Melbourne.

Jackson, D. F. (1996). Equity issues in the use of computer and telecommunications technologies in science teaching. *Illinois Science Teachers' Association Spectrum*, 22(4), 10-12.

Veal, W. R., Jackson, D. F., Finnegan, B., Tippins, D. J., & Crockett, D. (1995). Alternative and supplemental definitions of "technology:" Science educators' answers to "So what?" In F. Finley, D. Allchin, D. Rhees, & S. Fifield (Eds.), *Proceedings of the Third International Conference on the History and Philosophy of Science and Science Teaching* (pp. 1238-1248). Minneapolis: University of Minnesota.

Jackson, D. F., McGinnis, J. R., Radzik-Marsh, K., & Pyle, E. (1993). *Resource guide for grade 8 earth science*. Atlanta: Georgia Department of Education.

Jackson, D. F., & Ewald, J. (1993). Software Reviews [Review of *The Newtonian Sandbox*]. *School Science and Mathematics*, 93, 281.

Jackson, D. F. (1993). Software Reviews [Review of *Biology Explorer: Genetics*]. *School Science and Mathematics*, 93, 105-106.

Tippins, D. J., Jackson, D. F., & Simmons, P. E. (1992). Ethical dilemmas in life science teaching: The whale experience. *The Georgia Science Teacher*, 32(2), 11-12.

Jackson, D. F., & Tippins, D. J. (1991). Reviews: Software [Review of *Dance of the Planets*]. *The Science Teacher*, 58(9), 60-62.

### Major National and International Conference Presentations

Thomson, N. F., Adams, J., O'Dell, S., Chapman, S., Jackson, D. F., & Magner, J. (2008, April). *Hominid evolution: Theory, facts, and "tales" from the field*. Special symposium presented at the Annual Meeting of the National Association for Research in Science Teaching, Baltimore, MD.

Jackson, D. , Jones, L. , Thomson, N., Dike, J., & O'Dell, S. (2007, April). *The "other" literature of evolution/creationism and a serious attempt at its application*. Special symposium presented at the Annual Meeting of the National Association for Research in Science Teaching, New Orleans, LA.

- Thomson, N., Koopman, R., Chapman, S., & Jackson, D. (2006, April). *Scaffolding students' knowledge of inquiry through use of Virtual Gorilla Modeling*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Francisco, CA.
- Hembree, P., Jackson, D., & Thomson, N. (2006, January). *Alvarez' T. Rex and the Crater of Doom: Potential for integrating narrative history of science into teacher education*. Book discussion session conducted at the annual meeting of the Association for the Education of Teachers in Science, Portland, OR.
- Wheeler-Toppen, J., Wallace, C., & Jackson, D. (2005, April). *Measuring scientific literacy in undergraduate biology students*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Dallas, TX.
- Kim, T.-K., & Jackson, D. F. (2004, April). *Scientific understanding through reading college science textbooks: A self-study*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Vancouver, BC.
- Jackson, D. F. (2004, January). Oral interviews as a final examination format for a science methods course. In Wieseman, K., *Assessment practices that put the preservice teacher in the driver's seat*. Interactive discussion session presented at the annual meeting of the Association for the Education of Teachers in Science, Nashville, TN.
- Jackson, D. F. (2003, April). The Shipman/Jordan model for introducing the relationship between science and religion: Commentary from one perspective and possible extensions. In Kittleson, J., *Science and religion in the context of science education*. Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Jackson, D. F. (2003, April). Beyond evolution and creationism: Critically considering the claims of scientific and religious ways of knowing in educating the "whole child." In Jones, L., *Rethinking the evolution/creation controversy: Epistemological alternatives*. Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, PA.
- Peiffer, B., Jackson, D. F., & Tsoi, M. (2003, January). *Inservice teacher education in technology: An entire high school faculty as a three-year case study*. Presentation at the annual meeting of the Association for the Education of Teachers in Science, St. Louis, MO.
- Jackson, D. F., & Hembree, P. (2002, April). *An ordinal, three-dimensional model for the interaction of evolution and religion and its application to Earth and life science teaching*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Jackson, D. F. (2002, January). *Science teacher education in electronic technologies: Addressing our "Failure to Connect" in many senses*. Paper presented at the annual meeting of the Association for Education of Teachers in Science, Charlotte, NC.
- Jackson, D. F. (2000, April). *Sifting the relationship between personal and professional beliefs and practices with regard to evolution and religion: Three years of feedback from prospective middle school science teachers*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, New Orleans.

- Jackson, D. F. (2000, January). *Issues (and non-issues?) in gender equity in preservice science teacher education*. Interactive session held at the annual meeting of the Association for Education of Teachers in Science, Akron, OH.
- Jackson, D. F. (1999, April). *Issues (and non-issues?) in gendered interactions among students and instructors in preservice science teacher education courses*. Paper presented at the International Gender and Science Education Conference, Boston.
- Chun, S., Oliver, J. S., Jackson, D. F., & Kemp, A. (1999, March). *Scientific literacy: An educational goal of the past two centuries*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Boston.
- Li, H., Oliver, J. S., Jackson, D. F., and Tippins, D. (1999, March). *A technique for the identification of an operational definition for scientific literacy*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Boston.
- Jackson, D. F. (1999, March). *Teaching about evolution and historical geology in the context of middle school teacher education: Sifting the relationship between personal and professional beliefs and practices*. Contribution to an interactive symposium presented at the annual meeting of the National Association for Research in Science Teaching, Boston.
- Kim, T.-K., & Jackson, D. F. (1999, March). *Principles for the design and use of simulations in science learning as exemplified by a prototype microworld*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Boston.
- Meadows, L., Jackson, D. F., & Doster, E. C. (1998, November). *Talking about evolution so fundamentalist students will listen*. Paper presented at the Southern Area Convention of the National Science Teachers Association, Birmingham, AL.
- Clark, S. A., & Jackson, D. F. (1998, April). *Laboratory technology and student motivation in a conceptual physics classroom: A year-long case study*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Diego.
- Jackson, D. F., Mewborn, D. S., & Wieseman, K. C. (1998, April). *Issues in the development of an approach to gender equity in middle school science teacher education*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Diego.
- Jackson, D. F. (1997, April). *The Internet as a science resource for rural middle schools: A critical evaluation*. Paper presented at the annual meeting of the National Science Teachers Association, New Orleans.
- Jackson, D. F., Meadows, L., & Doster, E. C. (1997, April). *Talking about evolution so fundamentalist students will listen*. Paper presented at the annual meeting of the National Science Teachers Association, New Orleans, L

- Doster, E. C., Jackson, D. F., & Oliver, J. S. (1997, March). *Moving toward a richer understanding of students' interactions with dissection: Implications from an interpretive study*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Oak Brook, IL.
- Jackson, D., Baird, W., & Peters, J. (1997, January). *"Technological Literacy" for science teachers: Toward a theoretical grounding that holds up in practice*. Interactive panel discussion presented at the annual meeting of the Association for Education of Teachers in Science, Cincinnati, OH.
- Doster, E. C., Jackson, D. F., Oliver, J.S., crockett, D. K., & Emory, A. L. (1997, January). *Values, dissection and school science: An inquiry into students' construction of meaning*. Paper presented at the annual meeting of the Association for Education of Teachers in Science, Cincinnati, OH.
- Tippins, D., Nichols, S., Staver, J., Abell, S., & Jackson, D. (1997, January). *Thinking like a teacher: A conversation on considering the professional development of science teacher educators within a climate of reform*. Interactive panel discussion presented at the annual meeting of the Association for Education of Teachers in Science, Cincinnati, OH.
- Jackson, D. F., Bourdeau, G., & Hagen, T. J. (1996, April). *Internet resources for middle school science: Golden opportunity or silicon snake oil?* Paper presented at the annual meeting of the National Association for Research in Science Teaching, St. Louis, MO.
- Veal, W. R., Jackson, D. F., Tippins, D. J., & Crockett, D. (1995, November). *Alternative and supplemental definitions of "technology:" Science educators' answers to "So what?"* Paper presented at the Third International Conference on the History and Philosophy of Science and Science Teaching, Minneapolis, MN.
- Jackson, D. F. (1995, April). *Case studies of microcomputer and interactive video simulations in middle school earth science teaching*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Francisco.
- Jackson, D. F. (1994, April). *Analyzing computer-recorded instructional events: A summary of strengths and weaknesses of techniques*. Contribution to symposium presented at the annual meeting of the American Educational Research Association, New Orleans.
- Doster, E. C., Oliver, J. S., & Jackson, D. F. (1994, April). *Approaches to teaching evolution to fundamentalist students: Insights from interviews with fundamentalist scientists and science teachers*. Paper presented at the annual meeting of the National Science Teachers Association, Anaheim, CA.
- Berger, C. F., Krajcik, J. S., Jackson, D. F., & Fisher, K. M. (1994, March). *The use of microcomputers in science education research: Data gathering, analysis, and display of results*. Research training course conducted at the annual meeting of the National Association for Research in Science Teaching, Anaheim, CA.

- Jackson, D. F., Doster, E. C., Meadows, L., & Wood, T. (1994, March). *Hearts and minds in the science classroom: The education of a confirmed evolutionist*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Anaheim, CA.
- Sherwood, R. D., Lemke, J., Berger, C. F., Hodas, S., Jackson, D. F., Klapper, M., & Baird, W. (1994, March). *Visions of science education in the new century: Issues related to the uses of technology*. Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Anaheim, CA.
- Calvert, R., & Jackson, D. F. (1994, March). *Using technology to facilitate development of interdisciplinary units*. Paper presented at the annual meeting of the National Science Teachers Association, Anaheim, CA.
- Deru, D. B., Jackson, D. F., Atwater, M. M., & Oliver, J. P. (1994, March). *Professional development in multicultural education for middle school science and mathematics teachers: Possibilities and problems*. Poster session presented at the annual meeting of the National Association for Research in Science Teaching, Anaheim, CA.
- Doster, E. C., Jackson, D. F., & Smith, D. W. (1994, January). *Modeling Pedagogical Content Knowledge in Physical Science for Prospective Middle School Teachers: Problems and Possibilities*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, El Paso, TX.
- Calvert, R., Pyle E., & Jackson, D. F. (1994, January). *Immediate Effects of the Georgia Statewide Systemic Initiative on Professional Development Schools*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, El Paso, TX.
- Meadows, L., Jackson, D. F., Griffin, A., & Howeth, T. (1993, April). *Foxfire grows up, and a teacher educator with it*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Jackson, D. F., Koballa, T. R., Padilla, M. J., & McGinnis, J. R. (1993, April). *The role of action research in curriculum development for a preservice science teacher education program*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Doster, E., Rutledge, M., Jackson, D. F., & Tippins, D. J. (1993, April). *Teacher learning in a project-centered, technology-rich elementary classroom environment*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Jackson, D. F., Baird, W. E., Beichner, R. J., Berger, C. F., Sherwood, R. D., White, A. L. (1993, April). *Microcomputer Simulations in Science Classrooms: Cases of Perceived, Operational and Experiential Curriculum*. Roundtable discussion presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Simmons, P. E., McGinnis, J. R., Jackson, D. F., Aikenhead, G., & Tippins, D. J. (1993, April). *Science/Technology/Society: Multiple research perspectives*. Roundtable discussion presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.

- Atwater, M. M., Jackson, D. F., Wiggins, J., Hale, M. & Simmons, P. E. (1993, April). *The uses of technology with teachers to improve science learning in the classroom*. Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- French, D., Koballa, T. R., Jackson, D. F., Meadows, L., Tippins, D. J., Hook, K., & Roth, W.-M. (1993, April). *Critical issues in action research*. Alternative format session presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Jackson, D. F., Tippins, D. J., Doster, E., & Rutledge, M. (1993, April). *Teacher learning in a project-centered, technology-rich environment: The role of imagery and metonymy*. Paper presented at the annual meeting of the American Educational Research Association, Atlanta.
- Meadows, L., French, D., Jackson, D. F., & Koballa, T. R. (1993, April). *Approaches to personal empowerment of preservice teachers: Action research in science education classrooms*. Paper presented at the annual meeting of the American Educational Research Association, Atlanta.
- Jackson, D. F., Meadows, L., & Settle, G. (1993, April). *Teacher as curriculum-maker for at-risk middle school students: A case study of content integration and the use of computer technology*. Paper presented at the annual meeting of the American Educational Research Association, Atlanta.
- Atwater, M. M., Jackson, D. F., Wiggins, J., Hale, M. & Simmons, P. E. (1993, January). *Methods and outcomes of various approaches to inservice teacher education in the application of microcomputer technology*. Symposium presented at the annual meeting of the Association for the Education of Teachers in Science, Charleston, SC.
- Jackson, D. F. (1992, October). *Microcomputer Simulations in Science Classrooms: The Designer's Intended Curriculum Versus the Students' Experienced Curriculum*. Paper presented at the annual meeting of the North American Simulation and Gaming Association, Ann Arbor, MI.
- Jackson, D. F., & Butts, D. P. (1992, May). *In the spirit of natural history: Towards science education research informed by the non-experimental sciences*. Paper presented at the Second International Conference on the History and Philosophy of Science and Science Teaching, Kingston, ON.
- Jackson, D. F., Meadows, L., & Scoates, G. (1992, March). *Science and mathematics curriculum renewal through microcomputer infusion: An experienced teacher's planning processes in a novel situation*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Cambridge, MA.
- Jackson, D. F., Edwards, B. J., & Berger, C. F. (1992, March). *Using microcomputers to teach graphing*. Paper presented at the annual meeting of the National Science Teachers Association, Boston.

- Jackson, D. F., & Meadows, L. (1992, March). *Microcomputer simulations in science classrooms: What are the kids really doing and thinking?* Paper presented at the annual meeting of the National Science Teachers Association, Boston.
- Jackson, D. F., Berger, C. F., & Simmons, P. E. (1991, April). *Student use of software in science and technology: Perspectives on the role of the computer in research.* Symposium presented at the annual meeting of the Special Interest Group for Education in Science and Technology, American Educational Research Association, Chicago.
- Jackson, D. F. (1991, April). *The scientist as cracker-barrel philosopher: Implications for the concept of scientific literacy.* Paper presented at the annual meeting of the National Association for Research in Science Teaching, Fontana, WI.
- Jackson, D. F. (1991, April). *Methodological perspectives on the role of technology in research on student use of science software.* Symposium organized for the annual meeting of the National Association for Research in Science Teaching, Fontana, WI.
- Jackson, D. F. (1991, April). *Exploratory problem solving with a graphing application: Semi-automated analysis of student performance data.* Paper presented at the annual meeting of the National Association for Research in Science Teaching, Fontana, WI.
- Dershimer, C., Berger, C. F., & Jackson, D. F. (1991, April). *Designing hypermedia for concept development: Formative evaluation through analysis of log files.* Paper presented at the annual meeting of the National Association for Research in Science Teaching, Fontana, WI.
- Edwards, B. J., Jackson, D. F., & Berger, C. F. (1990, April). *Teaching the design and interpretation of graphs through computer-aided graphical data analysis* (ERIC Document Reproduction Service No. ED 319 594, part 1). Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Jackson, D. F., Berger, C. F., & Edwards, B. J. (1990, April). *The design of software tools for meaningful learning by experience: Flexibility and feedback* (ERIC Document Reproduction Service No. ED 319 594, part 2). Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Berger, C. F., & Jackson, D. F. (1990, April). *Using technology to interpret large-scale complexity: The use of scientific sequence analysis algorithms in research on computer-assisted problem solving* (ERIC Document Reproduction Service No. ED 319 594, part 3). Paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta.
- Jackson, D. F., & Berger, C. F. (1990, April). *The use of sequence analysis algorithms in research on computer-assisted problem solving strategies.* Paper presented at a joint session of the annual meetings of the American Educational Research Association and the National Council for Measurement in Education, Boston.

- Jackson, D. F., & Goodman, F. L. (1989, October). *Bungle in the Jungle: A simulation of selective attention in situations of information overload*. Paper presented at the annual conference of the North American Simulation and Gaming Association, Indianapolis, IN.
- Jackson, D. F., & Berger, C. F., & Edwards, B. J. (1989, March). *The student as grapher: Computer-assisted thinking skills*. Paper presented at a joint session of the annual meetings of the American Educational Research Association and the International Association for Computing in Education, San Francisco.
- Jackson, D. F., & Lee, V. E. (1989, March). *Student characteristics and advanced science course-taking: Evidence from a national sample*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Jackson, D. F. (1988, October). *Games of statistical intuition: High-tech to low-tech*. Paper presented at the annual conference of the North American Simulation and Gaming Association, Asheville, NC.

### **Grants Awarded**

Title: Virtual Science Projects for Middle School Teachers and Students  
(Coauthored and administered by Thomas J. Hagen, Microbiology Dept.)  
Description: Model Technology Grant, State of Georgia Dept. of Education  
Award Date: April 15, 1995  
Amount Awarded: \$40,416  
Duration: summer 1995 through spring 1997

Title: A Project-centered, Technology-rich, Environmentally-oriented Approach to Middle-grades Science Education: Extension to Higher and Lower Technology  
(Coauthored and co-administered by Deborah Tippins)  
Description: Eisenhower Act Title II Grant (Type C -- Special Project).  
Award Date: Feb. 15, 1993  
Amount Awarded: \$18,817  
Duration: academic year 1993-94

Title: Hands-on, Minds-on Mathematics and Science Instruction as the Initiator of Reform at a Professional Development School  
Description: Eisenhower Act Title II Grant (Type D -- Sustained Contact).  
Award Date: Feb. 15, 1993  
Amount Awarded: \$17,350  
Duration: Summer-Fall Quarters, 1993

Title: Multicultural Mathematics and Science Education as a Foundation for Reform at a Professional Development School  
Description: Eisenhower Act Title II Grant (Type D -- Sustained Contact).  
Award Date: Feb. 15, 1993

Amount Awarded: \$14,919  
Duration: Winter-Spring Quarters, 1994

Title: A Project-based, Technology-rich, Environmentally-oriented Approach to Middle-grades Science Education

(Coauthored and co-administered by Deborah Tippins)

Description: Eisenhower Act Title II Grant (Type C -- Special Project).

Award Date: March 25, 1992

Amount Awarded: \$29, 979

Duration: academic year 1992-93

Title: Microcomputer Integration for Student Teaching in Science

(Coauthored and co-administered by Patricia Simmons and Deborah Tippins)

Description: Eisenhower Act Title II Grant (Type C -- Special Project).

Award Date: Feb. 15, 1991

Amount Awarded: \$23,035

Duration: Winter-Spring Quarters, 1992

Title: Georgia Science, Technology, and Environmental Problem Solving Update Project, Phase I (1991), Sustained Contact Component

(Coauthored and co-administered by Patricia Simmons and Deborah Tippins)

Description: Eisenhower Act Title II Grant (Type D -- Sustained Contact).

Award Date: Feb. 15, 1991

Amount Awarded: \$18,006

Duration: Fall Quarter, 1991

Title: Georgia Science, Technology, and Environmental Problem Solving Update Project, Phase I (1991), Workshop and Directed Study Component

(Coauthored and co-administered by Patricia Simmons and Deborah Tippins)

Description: Eisenhower Act Title II Grant (Type B -- Course Offering).

Award Date: Feb. 15, 1991

Amount Awarded: \$20,385

Duration: Summer Quarter, 1991

Title: Georgia Science, Technology, and Environmental Problem Solving Update Project, Phase I (1991), Curriculum Development Component

(Coauthored and co-administered by Patricia Simmons and Deborah Tippins)

Description: Eisenhower Act Title II Grant (Type C -- Special Project).

Award Date: Feb. 15, 1991

Amount Awarded: \$12,590

Duration: Summer Quarter, 1991

### **Honors and Awards**

Faculty Senate D. Keith Osborn Award for Teaching Excellence, College of Education, University of Georgia, 2001.

Outstanding Teaching Award, College of Education, University of Georgia, 1999.

*Journal of Research in Science Teaching* Award, National Association for Research in Science Teaching, 1996.

Gustav Ohaus Award for Innovations in Science Teaching (College Level), National Science Teachers Association, 1996.

Practical Applications Award, National Association for Research in Science Teaching, 1991.

Merit Scholarship, School of Education, University of Michigan, Ann Arbor, 1986-1987.

Harvard College Scholarship, Harvard University, Cambridge, MA, 1978-80, 1981-82.

### **Service to Professional Organizations**

American Educational Research Association

Secretary/Treasurer, Special Interest Group for Education in Science and Technology

Secretary/Treasurer, Special Interest Group for Advanced Technologies in Education

Proposal reviewer, Annual Meeting

*American Educational Research Journal*, Manuscript reviewer

Association for Science Teacher Education (formerly Association for the Education of Teachers in Science)

Proposal reviewer, Annual Meeting

*Electronic Journal of Science Education*, Manuscript reviewer

*Journal of Educational Computing Research*, Manuscript reviewer

*Journal of Research in Science Teaching*, Manuscript reviewer

*Journal of Science Education and Technology*, Manuscript reviewer

National Association for Research in Science Teaching

Organization of Annual Meeting

Strand coordinator, Educational technology

Local arrangements chair

Data processing coordinator

Proposal reviewer

Committee memberships

Annual Meeting Program

Equity

Outstanding Paper Award

Outstanding Doctoral Dissertation Award

NARST-Net

National Institutes of Health  
Grant proposal reviewer

National Science Foundation  
Grant proposal reviewer

National Science Teachers Association  
Proposal reviewer, Annual Meeting  
Curriculum materials reviewer, *NSTA Recommends*

School Science and Mathematics Association  
Proposal reviewer, Annual Meeting

*School Science and Mathematics*, Manuscript reviewer, Software and book reviewer

*Science and Education*, Manuscript reviewer

*Science Education*, Manuscript reviewer

*The Science Teacher*, Software reviewer