

CURRICULUM VITAE

Caesar R. Jackson, Ph.D.

Academic Address:

School of Graduate Studies
 North Carolina Central University
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EDUCATION

Doctor of Philosophy, Physics (Nuclear Physics), North Carolina State University, Raleigh, NC, 1992
 Dissertation Title: “A New Miniature Electron Cyclotron Resonance Ion Source”
 Master of Engineering, Electrical Engineering, University of Florida, Gainesville, FL, 1980
 Thesis Title: “Microcomputer Detection of Abnormal Spikes in the Electroencephalogram”
 Bachelor of Engineering Technology (*summa cum laude*), Electrical Engineering, Florida Agricultural and Mechanical University, Tallahassee, FL, 1977

EMPLOYMENT HISTORY

Government:

<u>Date</u>	<u>Title</u>	<u>Agency</u>
2009-2011	Program Director, Human Resource Development Division	National Science Foundation
2010	Acting Division Director, Human Resource Development Division	National Science Foundation
2007-2008	Program Director, Human Resource Development Division	National Science Foundation

Academic:

<u>Date</u>	<u>Rank/Title</u>	<u>Institution</u>
2012-Present	Dean (Interim), Graduate School Director (Interim), INBS PhD Program Professor of Physics, College of Arts and Sciences	North Carolina Central University
2011-2012	Director (Interim), INBS PhD Program	North Carolina Central University
2009-2012	Professor of Physics, College of Science and Technology	NC Central University
2006-2009	Professor and Dean, College of Science and Technology	NC Central University
2005-2006	Professor and Dean, College of Arts and Sciences	NC Central University
2002-2005	Professor and Interim Dean, College of Arts and Sciences	NC A&T State University
2000-2002	Professor and Associate Dean for Research and Graduate Programs, College of Arts and Sciences	NC A&T State University
1998-2000	Associate Professor and Associate Dean for Research and Graduate Programs, College of Arts and Sciences	NC A&T State University
1997 – 1998	Associate Professor and Chairperson, Physics	NC A&T State University
1995 – 1997	Assistant Professor and Chairperson, Physics	NC A&T State University
1994 – 1995	Assistant Professor and Interim Chairperson, Physics	NC A&T State University
1994 summer	Visiting Scientist	TUNL*
1993 summer	Visiting Scientist	CEBAF** and TUNL
1992 – 1994	Assistant Professor, Physics	NC A&T State University

* TUNL is Triangle Universities Nuclear Laboratory, Durham, NC

** CEBAF is Continuous Electron Beam Accelerator Facility, Newport News, VA

Industrial:

<u>Date</u>	<u>Title</u>	<u>Company</u>
1990 – 1992	Staff Engineer	IBM** Corporation, RTP*, NC
1983 – 1990	Senior Associate Engineer	IBM Corporation, Boca Raton, FL and RTP, NC
1978 – 1983	Associate Engineer	IBM Corporation, Boca Raton, FL
1977 – 1978	Junior Engineer	IBM Corporation, Boca Raton, FL

** IBM is the International Business Machines Corporation

* RTP is the Research Triangle Park in North Carolina

Private:

<u>Date</u>	<u>Title</u>	<u>Company</u>
2005-Present	Senior Scientist	Blacque Research Systems

WORK EXPERIENCE

Dean (Interim), Graduate School

July, 2012 to Present

Director (Interim), PhD Program

December, 2011 to Present

School of Graduate Studies

North Carolina Central University, Durham, NC

- Provide exceptional leadership of the School of Graduate Studies and the Doctoral Program in Integrated Biosciences.
- Attract, retain, and develop qualified faculty members and students for the Ph.D. Program in Integrated Biosciences.
- Strengthen, expand, and advance the School of Graduate Studies by assuring the alignment of the curriculum to promote the attainment of the essential knowledge and skills needed for students to successfully matriculate through the School of Graduate Studies.
- Provide programmatic leadership development and articulation of new graduate degree programs, and oversee marketing, strategic planning, financial operations, including admissions and recruiting activities of the School of Graduate Studies.
- Develop strategic partnerships locally with graduate schools and departments within NCCU and the University of North Carolina System.
- Facilitate provisions to establish and maintain the highest levels of collaboration, communication, and collegiality among and between faculty, students, administrators, and staff.
- Plan, direct, and submit documentation required in order for the School of Graduate Studies to successfully achieve its mission and goals.
- Effectively plan, administer, manage, and control all pertinent budgets and also maintain financial and personnel records consistent with institutional and state policies as well as accrediting agency guidelines.
- Represent the School of Graduate Studies at state and national associations, community and campus events, and other occasions.
- Establish and implement efficient streamlined policies and procedures.
- Confer with appropriate academic staff to formulate admission requirements, develop curricula and curricula revisions and also course credit policies to ensure excellence in teaching and learning throughout the school.
- Design, direct, and execute a comprehensive plan for increasing resources from private donations, foundations, and federal funding agencies.

Program Director (VSEE)

October, 2010 to October, 2011

Division of Human Resource Development (HRD)

October, 2009 to January, 2010

Directorate for Education and Human Resources (EHR)

National Science Foundation, Arlington, VA

- Worked as Program Director for the Historically Black Colleges and Universities Undergraduate Program (HBCU-UP).
- Served as lead Program Officer on HBCU-UP Education Research Project (ERP).
- Served as co-lead on HBCU-UP Implementation Projects (IMP) and HBCU-UP Targeted Infusion Projects (TIP).
- Planned and ran HBCU-UP Education Research Project (ERP) review panel.
- Made recommendations for awards and declinations of HBCU-UP proposals.
- Provided ERP and IMP Panel Reviewer Training via Webinars.
- Monitored ERP, TIP, and IMP awards via e-jacket and Financial Accounting System.
- Improved and disseminated new guidelines for HBCU-UP project reporting.
- Reviewed and approved or rejected project annual reports in e-jacket.
- Approved change requests for awardee institutions, including: PI/Co-PI changes; Project scope changes and budget use changes.
- Performed multiple project site visits and provided technical assistance.
- Communicated to perspective applicants, by email and phone and webinars, funding opportunities at the NSF and other federal agencies.
- Communicated one-on-one with visitors from institutions seeking to learn about NSF funding opportunities.
- Wrote new FY 2011 HBCU-UP solicitation with major revisions to strengthen program requiring more rigorous project designs in each track.

(Acting) Division Director (VSEE)

January, 2010 to October, 2010

Division of Human Resource Development (HRD)

Directorate for Education and Human Resources (EHR)

National Science Foundation, Arlington, VA

- Led the Division of Human Resource Development through the FY 2011 budget request process.
- Prepared briefing materials and frequently asked questions for NSF Director, Deputy Director, and Assistant Director.
- Handled questions, inquiries, and comments from internal and external constituents.
- Co-planned, co-facilitated, and served as host of HRD 2010 Joint Annual Meeting (JAM).
- Represented NSF in public listening sessions at 2010 JAM on the proposed program.
- Participated in Senior Staff Meetings for EHR Directorate and contributed in reports development, data gathering and analysis, and FY 2012 budget planning.
- Authorized and approved travel and training requests for division staff.
- Reviewed and concurred proposal awards and declinations in e-jackets.
- Reviewed, edited, and approved program solicitations in PIMS.
- Managed the Division through FY 2010 budget spend-out.
- Managed the Division through FY 2010 Committee of Visitors for bundled set of programs.

Dean

October, 2008 to September, 2009

College of Science and Technology (CS&T)

North Carolina Central University, Durham, NC

- Worked as key member of leadership team for the University for reaffirmation of accreditation review by Southern Association for Accreditation of Schools and Colleges (SACS).
- Researched, collected, assembled, and submitted the primary documents, reports, and review

materials for SACS on the new College of Science and Technology and on the former College of Arts and Sciences for North Carolina Central University (NCCU).

- Provided faculty and staff workshops on academic program assessment and accreditation.
- Prepared assessment reports on the implementation of student learning outcomes and program learning outcomes for the College of Science and Technology academic programs.
- Helped achieve reaffirmation of accreditation by SACS for NCCU.
- Led the College of Science and Technology in strategic planning and development, evaluation and assessment, education and training, entrepreneurship, and marketing and promotion.
- Obtained accreditation of the NCCU Environmental Science Degree Program (Health Science Concentration) by the National Environmental Health Science and Protection Accreditation Council (EHAC).
- Established a new position, Assistant Dean for Student Development, which helped in increasing growth in undergraduate student research experiences.
- Launched the inaugural CS&T Undergraduate Research Symposium.
- Increased growth in CS&T faculty grantsmanship, research, and scholarship.

Program Director (VSEE)

October, 2007 to September, 2008

Division of Human Resource Development (HRD)

Directorate for Education and Human Resources

National Science Foundation, Arlington, VA

- Worked as Program Director for the Historically Black Colleges and Universities Undergraduate Program (HBCU-UP).
- Served as lead Program Officer on HBCU-UP Education Research Project (ERP).
- Served as co-lead on HBCU-UP Implementation Projects (IMP) and HBCU-UP Targeted Infusion Projects (TIP).
- Used e-jacket and financial accounting system tools in management of HBCU-UP program portfolio.
- Planned and ran HBCU-UP Education Research Project (ERP) review panel.
- Co-planned and co-ran HBCU-UP IMP and TIP review panels.
- Made recommendations for awards and declinations of HBCU-UP proposals.
- Provided ERP Panel Reviewer Training via Webinar.
- Monitored ERP and IMP awards via e-jacket and Financial Accounting System.
- Planned and completed HBCU-UP Site visits to eight institutions.
- Approved change requests for awardee institutions, including: PI/Co-PI changes; Project scope and budget use changes.
- Co-planned and co-facilitated a joint concurrent session on STEM education research at the HRD 2008 Joint Annual Meeting (JAM).
- Served as Cyber-enabled Discovery and Innovation (CDI) Panel Moderator for pre-proposal review panel- co-ran one CDI pre-proposal review panel.
- Coordinated, compiled, edited, and submitted HRD Division Highlights.
- Represented HRD Division and participated on Directorate-level Highlights Committee.
- Communicated to perspective applicants by email and phone, funding opportunities at the NSF and other federal agencies.
- Met one-on-one with visitors from institutions seeking to learn about NSF funding opportunities.
- Wrote the FY 2009 HBCU-UP solicitation and introduced the new ACE (Achieving Competitive Excellence) Implementation track.

Dean

July, 2006 to September, 2007

College of Science and Technology
North Carolina Central University, Durham, NC

- Managed the newly formed, College of Science and Technology comprised of the entire academic science departments of the University.
- Led development of mission and vision for the new College.
- Established committee structures to involve faculty in decision-making and empower faculty in the defining, planning, and growth of the new College.
- Structured operations that increased efficiency and effectiveness and provided strong fiscal management of the College.
- Increased faculty scholarly productivity dramatically over that of the previous year via journal submissions, published works in press, book chapters authored, and faculty professional presentations.
- Increased faculty grants writing output from the College to the highest level on the campus.
- Generated over \$14M in extramural funding in the new College of Science and Technology.
- Obtained funding to upgrade and renovate research laboratories in science buildings.

Dean and Professor of Physics (Tenured)

August, 2005 to July, 2006

College of Arts Sciences
North Carolina Central University, Durham, NC

- Managed the largest academic unit of the University comprised of 24 departments and twelve buildings.
- Provided the foundational general education program for undergraduate education for the University, covering the arts and humanities, foreign languages, mathematics, the sciences, the social sciences, nursing, and healthy living.
- Improved faculty morale and engagement.
- Started an annual awards and recognition banquet and ceremony for faculty and staff.
- Generated \$10M in extramural funding in the College, led by Science Departments, to rank second at the University.
- Established a new Bachelor of Science Degree in Pharmaceutical Science.
- Established new Master of Science Degree Programs in Physics and Computer Science
- Established a new Executive Master of Public Administration degree program
- Established an Institute for Homeland Security.
- Obtained approval to Plan African American Jazz Caucus Institute.
- Obtained accreditation of the Athletic Training Education Program.
- Led the restructuring of the College into three strategically defined new colleges.
- Completed the plan to divide College of Arts and Sciences into three new colleges: College of Liberal Arts; College of Behavioral and Social Sciences; and College of Science and Technology.

Dean (Interim)

August, 2002 to July, 2005

College of Arts and Sciences
North Carolina Agricultural and Technical State
University, Greensboro, NC

- Managed the largest academic unit of the University comprised of 13 departments and seven buildings.
- Provided the core curriculum for undergraduate education for the University covering the arts and humanities, foreign languages, mathematics, the sciences, and the social sciences.
- Restructured the College's academic departments, changed department leadership for program

growth and development, increased faculty scholarly productivity and instructional performance, and improved student achievement.

- Increased extramural funding in College, led by Science Departments, to rank second at the University.
- Increased research scholarly productivity in College, led by Science Departments, with sharp increases in refereed publications and presentations.
- Planned and hosted two major national scientific conferences at the University.
- Obtained accreditation of Journalism and Mass Media Program.
- Obtained reaffirmation of accreditation of the Joint Master of Social Work Program and renewal accreditation of Bachelor of Social Work Program.
- Obtained renewal of accreditation of Bachelor of Arts in Theatre Program.
- Established a new Visual and Performing Arts Department.
- Established new Bachelor of Arts in Liberal Studies degree program.
- Developed new research program in geophysical sciences.

Associate Dean of Research and Graduate Programs August, 1998 to July, 2002

College of Arts and Sciences

North Carolina Agricultural and Technical State

University, Greensboro, NC

- Worked on activities that supported sponsored research, graduate programs, long-range planning, alumni development, community outreach and other tasks associated with enhancing the research climate and increasing the quality of graduate education in the College.
- Reviewed private and federal proposal applications submitted by faculty and processed them through the College.
- Obtained funding for cost-sharing/matching for faculty proposals.
- Provided technical support in information technology hardware, software, connectivity, and other media to the Dean's Office and other department offices.
- Provided Y2K (Year 2000) Compliance Testing and Analysis for the College.
- Provided Disaster Recovery Planning for the College and served on University Task Force.
- Obtained computer equipment and expanded network facilities throughout the College including in liberal arts and social sciences areas.
- Managed College budgets and made department allocations.
- Produced College Reports (e.g. Self-Study Report, University Purpose Report, and Annual Report) and submitted to appropriate University administrators.
- Managed Department of Education Title III budgets for project activities the College.
- Worked in dual roles of Associate Dean and Physics Department Chairperson during 1998-99 and 2000-01.
- Developed long-range plans of new programs for the College and submitted to University for inclusion in University Long-range Plan to University of North Carolina General Administration (UNC-GA).
- Obtained funding from UNC-GA for plan new degree programs in Liberal Studies and Computational Sciences.
- Generated \$4 M in grant funding from National Science Foundation and Department of Education for STEM education and research training for undergraduates.

**Chairperson and Associate Professor of Physics
(Tenured)**

August, 1994 to July, 1998

Department of Physics

College of Arts and Sciences

North Carolina A&T State University, Greensboro, NC

- Obtained approvals from the University of North Carolina System to plan and to establish a Master of Science in Physics degree program.
- Raised the quality of academic and research programs in the department of Physics.
- Produced a physics graduating class that was the largest ever before for the University. The physics graduates were all African American individuals and one third of the graduates went on to graduate school and ultimately to complete PhDs in physics.
- Recruited and graduated the first MS in Physics graduate students for the University.
- Supervised physics graduate student research and theses.
- Taught graduate level physics courses; Taught advanced undergraduate physics courses
- Supervised undergraduate research.
- Obtained funding for student scholarships from the Sloan Foundation.
- Performed scientific research at Triangle Universities Nuclear Laboratory (TUNL) and Thomas Jefferson National Laboratory and the Continuous Electron Beam Accelerator Facility (CEBAF).
- Obtained research funding from Southern Universities Research Association (SURA)/CEBAF.
- Established a department computational facility with connectivity to faculty offices.
- Established a detector development laboratory for the department with high quality test and measurement equipment.

Assistant Professor

August, 1992 to July, 1994

Department of Physics, College of Arts and Sciences

North Carolina A&T State University, Greensboro, NC

- Taught introductory and advanced undergraduate physics courses.
- Developed a physics laboratory course and lab manual with new computer-based experiments.
- Developed and taught new advanced physics courses not previously available for physics majors.
- Revised and expanded the undergraduate physics program curriculum.
- Provided academic advising and counseling to undergraduate physics majors
- Developed new undergraduate student advising tools and materials.
- Established a research program in nuclear physics for the department.
- Performed scientific research at Triangle Universities Nuclear Laboratory (TUNL) and Thomas Jefferson National Laboratory and the Continuous Electron Beam Accelerator Facility (CEBAF).
- Obtained research funding from Department of Energy and National Science Foundation.
- Developed a new Master of Science in Physics degree program curriculum and secured University approval for that curriculum.

Staff Engineer; Senior Associate Engineer

August, 1990 to July, 1992

Communications Controller Systems Development

October, 1985 to July, 1990

Power Systems Division

IBM Corporation, Research Triangle Park, NC

- Worked on new product development cross-divisional teams for digital communications systems.
- Wrote and presented new product proposals and concepts to executive management.
- Investigated new communication transmissions systems via software and hardware modeling.
- Designed and developed coaxial and twin wire pair transmission technologies for token ring data communication systems.

- Led cross-divisional product development team for mid-size and large network controllers.
- Designed and developed new high-frequency DC switching, multi-level DC power systems and control technologies.
- Led product development for power systems for a family of network controllers.
- Established product specifications for power systems and controls for data communications systems and network controllers.
- Developed product development schedules, cost estimates, and work plans.
- Wrote and presented project status reports to middle and upper management.
- Directed and supervised design, prototyping, and testing of high-frequency switching power systems and controls for data communications systems and network controllers.
- Directed mechanical design and packaging of power systems units.
- Directed and supervised reliability testing of power systems and secured national and international safety approvals for power systems.
- Produced power systems products release documentation--schematic diagrams, technical descriptions, assembly and trouble-shooting guides, and operating procedures.
- Managed power systems and network controller products through life cycle-- from development to assembly line manufacturing to customer delivery and set-up.
- Provided technical support to manufacturing line assembly and testing on network controllers.
- Provided technical support to field service technicians on network controller systems.

Senior Associate Engineer; Associate Engineer
Communications Controller Systems Development
Power Systems Division

January, 1983 to October, 1985;
July, 1978 to January, 1983

International Business Machines Corporation (IBM), Boca Raton, FL

- Worked on cross-divisional product development teams for small and mid-size network controllers.
- Worked as lead electrical engineer on a power systems development team.
- Investigated new power switching technologies via software and hardware modeling.
- Developed product development schedules, cost estimates, and work plans.
- Established design specifications for multi-level DC power systems and controls for network controllers.
- Led product development team in design, prototyping, and testing of high-frequency switching power systems.
- Directed mechanical design and packaging of power systems units.
- Directed and supervised reliability testing of power systems.
- Wrote and presented project status reports.
- Obtained national and international safety approvals for power systems.
- Wrote and presented project status reports to middle management.
- Produced product release documentation for power systems and network controllers including schematic diagrams, technical descriptions, assembly guides, trouble-shooting guides, and operating procedures.
- Managed power systems and network controller products through the life cycle from development to assembly line manufacturing to customer delivery, set-up, and operation.
- Provided technical support to field service technicians on network controller systems.

Junior Engineer

June, 1977 to July, 1978

Communications Controller Systems Development
Power Systems Division

International Business Machines Corporation (IBM), Boca Raton, FL

- Worked as an electrical engineer on a power systems design teams.
- Designed circuits for multi-level, low voltage, DC power supplies for network controller systems.
- Designed start-up and shutdown circuits for power and controls for network controllers.
- Performed electronic circuit card design, prototyping, and testing for high-frequency DC switching, multi-level DC power supply technologies.
- Performed reliability testing of high-frequency DC switching, multi-level DC power systems.
- Wrote and presented project status reports to first line management.
- Provided technical support to field service technicians on network controller systems.

TECHNICAL SKILLS

Education Research and Program Evaluation:

Skills in current quantitative research and evaluation methods. Skills in advanced statistical techniques including ANOVA, regression analysis, hierarchical linear modeling, and other multivariate/multilevel modeling techniques.

Computer:

HTML, C, FORTRAN, and QuickBASIC; SPSS, AXUM, and FASTCAD; Adobe Acrobat, Premiere, Flash, and Illustrator; Microsoft Word, Excel, Powerpoint, Access, and Publisher; LOTUS-1-2-3, and WordPerfect. Windows and UNIX operating system.

Hardware & Design:

AC and DC power systems. Switching power supplies. RF and microwave systems. Plasma heating and confinement systems. Magnet systems. FASTBUS, VME, NIM, and CAMAC data acquisition systems.

Knowledge of Grants and Contracts, Fiscal Management, and Budget Preparation

I am an experienced Program Director from a stint at the National Science Foundation (NSF), serving during FY 2008 and during FY2010 to FY2011. I provided program oversight and management of the NSF Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) awards portfolio. I interacted with principal investigators, provided technical assistance, analyzed awardees' documentation, conducted site visits, prepared program solicitations, and assembled and ran review panels. I made recommendations for awards and declinations of HBCU-UP proposals and I used the program management and financial accounting system tools in the overall management of the HBCU-UP program portfolio.

On detail as Acting Division Director (DD) for Human Resource Development Division, I managed the division through the FY 2011 Budget Request period and the FY 2010 Bundled Committee of Visitors (COV) Review. I reviewed and DD-concurred proposal awards and declinations, authorized staff travel requests, and managed the division through the FY 2010 budget spend-out.

As dean of colleges at NCCU and NCA&T, I have been responsible for managing large academic budgets. I prepared budget requests and produced budget analysis reports, especially when budget cuts were eminent. I made subsequent budget allocation and distribution to academic departments in my college, with budget line items included for faculty development and student development activities. My fiscal management responsibility also included annual academic budget close-out which involved clearing outstanding requisitions and purchase orders in timely manner.

As a faculty member at two universities, I wrote proposals for grants and developed detailed budgets for those requests. I was Principal Investigator on an HBCU-UP award and on many and various types of grants, federal and private. For my proposals that were awarded funding, I set up and managed the project budgets with line items included for personnel salaries, purchasing, travel, equipment, and participants' costs. I was fiscally responsible and I abided by all regulations regarding use of federal funds. Some of the grant awards I generated are given in the following.

CURRENT PROPOSALS FUNDED

- 2012-16: "DREAM STEM"—Driving Research, Entrepreneurship, and Academics through Mastering STEM," National Science Foundation \$1,750,000
- 2012-15: "Development of an Engineering Physics Program Concentration at NCCU," National Science Foundation \$300,000

PAST PROPOSALS FUNDED

- 2003-05: "Collaborative Research: NCSU & NC A&T Program for STEM Enrollment Enhancement," National Science Foundation \$218,788
- 2002-05: "NCAT-UGA: Bridges to the Doctorate Program," Board of Regents/Univ System of GA \$445,046
- 2002-05: "A Test Facility for Theoretical and Experimental Physical Acoustics," U.S. Department of Education \$297,097
- 2002-04: "The 2003 and 2004 NC A&T SMET Summer Institutes," U.S. Department of Education \$50,000
- 2002-04: "Development of a Geophysical Field Research and Training Program," National Science Foundation \$134,601
- 2002-03: "Physical Insight and Mathematical Methods in Seismic Data Analysis," National Science Foundation \$99,851
- 2002: "Transforming the Masters Program in Applied Mathematics, Physics and Chemistry into an Interdisciplinary Computational Science Program," with G. Tang, S. Bililign, D. Clemence, Y. Wang, and S. Providence, Council of Graduate Schools/Sloan Foundation \$7,500
- 2001-03: "CSMET (Computer Science, Mathematics, Engineering, and Technology) Scholarship Program," National Science Foundation \$297,000
- 2000-03: "Support for Research Training in the TALENT-21 Program at NCA&TSU," U.S. Department of Education \$240,718
- 1999-2004: "Talent 21: Gateway Advancing Science and Mathematics Talent," with G. Tang and A. Titus, National Science Foundation \$2,999,934
- 1997-2003: "A&T Physics Scholars Program," Sloan Foundation \$315,000 total
- 1996-2001: "SURA/CEBAF Support for Joint Faculty," SURA/CEBAF \$1,000,000 total value
- 1995-1998: "A $^2\text{H}(n,p)2n$ Experiment to Measure Accurately the Neutron-Neutron Scattering Length," Department of Energy \$161,000
- 1994-1995: "Support for Collaborative Research with North Carolina A&T State University," Department of Energy \$38,000
- 1994-1995: "Planning a $^2\text{H}(n,p)2n$ Experiment to Measure Accurately the Neutron-Neutron Scattering Length," National Science Foundation \$17,812

PUBLICATIONS AND PRESENTATIONS

Refereed Journal Articles:

Guo-Quan Wang, Guo-Qing Tang, Caesar R. Jackson, Xi-Yuan Zhou, and Qing-Liang Lin, "Strong Ground Motions Observed at the UPSAR during the 2003 M 6.5 San Simeon and 2004 M 6.0 Parkfield, California, Earthquakes". *Bulletin of the Seismological Society of America*, Vol. 96, No. 4B, pp. S159–S182, September 2006.

Guo-Quan Wang, Guo-Qing Tang, David M. Boore, G. Van Ness Burbach, Caesar R. Jackson, Xi-Yuan Zhou, and Qing-Liang Lin, "Surface Waves in the Western Taiwan Coastal Plain from an Aftershock of the 1999 Chi-Chi, Taiwan, Earthquake". *Bulletin of the Seismological Society of America*, Vol. 96, No. 3, pp. 821–845, June 2006.

"Modeling of Seismic Wave Propagation", G. Tang, D. Clemence, C.R. Jackson, Q. Lin, V. Burbach and L. Emmanwori. In *Analytical and Numerical Approaches in Nonlinear Wave Propagation*, Editors D.P. Clemence and G. Tang, AMS Publisher 2004.

"Longitudinal and Transverse Cross Sections in the $H(e,e'K^+)$ Λ Reaction", C.R. Jackson with the E-93-018 Collaboration of Thomas Jefferson National Accelerator Laboratory, *Physics Review Letters* **81**, 1805(1998).

"Quasifree $(e,e'p)$ Reactions and Proton Propagation in Nuclei", C.R. Jackson with the E-91-013 Collaboration of Thomas Jefferson National Accelerator Laboratory, *Physics Review Letters* **80**, 5072(1998).

"Associated Λ Production at Jefferson Lab", C.R. Jackson with the E-93-018 Collaboration of Thomas Jefferson National Accelerator Laboratory, *Nuclear Physics A* **639**, 189c(1998).

"Feasibility Test Run of $^{12}C(e,e'K^+)$ Reaction at Thomas Jefferson National Accelerator Facility", C.R. Jackson with the E-89-008 Collaboration of Thomas Jefferson National Accelerator Laboratory, *Nuclear Physics A* **639**, 205c(1998).

"Effect of Vibrations on the Energy Unresolved Electron Scattering by H_2 and D_2 ", K. Szalewicz, W. Kolos, H. J. Monkhorst, and C. Jackson, *J. Chem. Phys.* **80** (1984) 1435.

Book Chapter

Jackson, C.R., Melton, M.A. & Jackson, S.C. (2009). African American Males in U.S. Science. In H. T. Frierson, J. H. Wyche & W. Pearson, Jr., (Eds.), *Black American males in higher education: Research, programs and academe, diversity in higher education*, Vol. 7. (ch. 8). Boston: Emerald Group Publishing.

Conference Presentations and Proceedings:

G. Tang, C.R. Jackson, G.V.N. Burbach, D.P. Clemence, L. Emmanwori and M. Kithcart, "On the development of an undergraduate research training program in geophysics," presented at the 2003 ASEE Annual Conference and published in the Conference Proceedings, Nashville, TN, June 2003.

G.V.N. Burbach, C.R. Jackson, G. Tang, D.P. Clemence and M. Kithcart, "Cooperative Partnership between Industry and Academia for Undergraduate Research Training: The North State Gold Mine Project," presented at the 2003 ASEE Annual Conference and published in the Conference Proceedings, Nashville, TN, June 2003.

“Talent 21: Gateway for Advancing Science and Mathematics, North Carolina A&T State University (Cohort 2, 1999-2004)”, C.R. Jackson, presented at American Education Research Association 2005 Annual Conference, Montreal, April 11-15, 2005.

“Developing Earth System Science Courses and Programs at Minority Serving Institutions” D. R. Johnson, C. Jackson, and M. Ruzek, presented at 2004 American Geological Union Fall Meeting, San Francisco, December 13-17, 2004.

“Undergraduate Research Training Program in Geoscience at NC A&T” G. Tang, C.R. Jackson, G.N. Burbach, and D. Clemence, presented at 2004 American Geological Union Fall Meeting, San Francisco, December 13-17, 2004.

“Source Signature and Acoustic Field of Seismic Physical Modeling” Q. Lin, C. Jackson, G. Tang, and G. Burbach, poster presented at 2004 American Geological Union Fall Meeting, San Francisco, December 13-17, 2004.

“On the Development of an Undergraduate Research Training Program in Geophysics,” C.R. Jackson, G. Tang, G.V.N. Burbach, D.P. Clemence, L. Emmanwori and M. Kithcart, presented at the 2003 ASEE Annual Conference and published in the Conference Proceedings, Nashville, TN, June 2003.

“Cooperative Partnership between Industry and Academia for Undergraduate Research Training: The North State Gold Mine Project,” G.V.N. Burbach, C.R. Jackson, G. Tang, D.P. Clemence and M. Kithcart, presented at the 2003 ASEE Annual Conference and published in the Conference Proceedings, Nashville, TN, June 2003.

“Numerical Modeling of Shallow Seismic Data for a Simple Two-Layer Earth Model,” G. Tang, C.R. Jackson, G.V.N. Burbach, D.P. Clemence and M. Kithcart, presented at the SIAM Conference on Mathematical and Computational Issues in the Geosciences, Austin, TX, March 17-20, 2003.

“A Spatial-Orientation Study of the Star Anomaly in n-d Breakup”, with C.R. Howell, A.S. Crowell et al., the 16th International Conference on Few-Body Problem in Physics, Taipei, Taiwan, March 6-10, 2000.

“Star Configuration in Neutron-Induced Deuteron Breakup – Differential Cross-Section Measurements at 16.0 MeV”, with A.S. Crowell, C.R. Howell et al., *Bul. Am. Phys. Soc.* **44 (6)** (1999) 11.

“Cross-Section Measurements of Star Configurations in Neutron-Deuteron Breakup at 16.0 MeV”, with A.S. Crowell, C.R. Howell et al., *Bul. Am. Phys. Soc.* **44 (5)** (1999) 62.

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American Evaluation Association

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