

## **SHORT RESUME**

**DARYAO S. KHATRI**

### **EDUCATION**

**The Catholic University of America**, Washington D.C.

Ph.D. in Physics with extensive Computer Applications, 1970-73.

**University of Delhi, New Delhi, India**

M.S. in Theoretical Physics based on Computer Applications, 1966-68.

B.S. in Physics and Minor in Computer Science (with honors), 1963-66.

### **PRESENT RELEVANT POSITIONS AND CONSULTANTSHIPS**

1981-present Professor, University of the District of Columbia

1991-99: *Professor and Director*, UDC-SPPARC, University of the District of Columbia

1981-1991: *Professor and Director*, COSDET Center, University of the District of Columbia

1998 - 2000: *Consortium of Universities Senior Research Fellow*, DOD Army research Institute.

### **BOOKS**

October 2002: “*American Education Apartheid—Again*”, Published in October 2002

Sep. 2005: “*Color-Blind Teaching: Excellence for Diverse Classrooms*”, published in September 2005.

### **SPECIAL PROGRAMS**

2005-2007: 5 days - to two-week *Faculty Pedagogical Workshops*, University of the District of Columbia

### **DEVELOPMENT AND ADMINISTRATION OF FUNDED GRANTS**

1992-98: *Director*, USDA, Agricultural Experiment Station, \$280,000.

1994-98: *Director/Co-PI* on three DOD Army Research Institute Contracts, \$95,000

1995-98: *Director/Co-PI* on BAA grant, DOD Army Research Institute, \$346,000.

1994-96: *Director, PI*, Department of Education MSIP Institutional Grant, \$272,000.

1991-95: *Director, PI*, NSF Grant, \$486,000.

1990-91: *Director/PI*, NSF Planning Grant, \$50,000.

1985-88: *Director, PI*, CPSET COSDET Center

1988-90: *Director, PI*, "Special Grant", Department of Education, \$150,000.

1985-88: *Director, PI*, "Minority Institution Science Improvement Program (MISIP)", Department of Education, CO-OP grant, \$478,000.

1985-87: *Director, PI*, "DEC Equipment Grant", Digital Equipment Corporation, \$50,000.

1983-86: *Director, PI*, "Minority Institutional Science Improvement Program (MISIP)",

- Department of Education, \$296,000.
- 1978-81: *Director, PI, "Comprehensive Assistance to Undergraduate Science Education (CAUSE)", National Science Foundation, \$347,000.*
- 1979-80: *Director, PI, "Undergraduate Research Participation (URP)", National Science Foundation, \$45,000.*
- 1978-79: *Director, PI, "Undergraduate Research Participation", National Science Foundation, \$36,000. 1975-1978:*
- 1974-76 *Director, PI, Summer Session Faculty Research Grants, Federal City College, Washington, \$15,000.*

## **COMPUTER KNOWLEDGE AND EXPERIENCES**

- 1997-Present *Development of Databases:*
- 1980-Present *Trainer and developer for SQL:*
- 1994-99 *Designer/Developer of Databases.*
- 1991-Present *Trainer in Productivity Software:*
- 1993-99: *Trainer for Special Courses: DRS, BROMS, SNAP++.*
- 1991-98: *System Administration, UDC-SPPARC Hardware and Software Training in Parallel Processing and FORTRAN-PLUS on DAP 610C Training in Image and Signal Processing*
- 1985-89: *Artificial Intelligence*
- 1989-93: *Technical Manuals and Publications*
- 1993-98: *Introductory, Advanced, and Macro course training manuals Edited the following publications: Summary Handbook of Projects (1983-87) for MISIP, US Department of Education.*
- 1985-93: *Training courses completed:*
- 1980-81: *Systems Programmer and Academic Liaison for DEC2060.*
- 1967-87: *Programming Languages*
- 1979-87: *Application Programs*
- 1978-87: *Software Development*

## **RECENT RELEVANT PUBLICATIONS**

1. Khatri, D.S., Hughes, A.O. and Brown, B. (2009), "*Closing the Gap in Mathematics for Dunbar High School juniors and seniors*", Executive summary, University of the District of Columbia, Washington, DC. 20009.
2. Khatri, D.S., Hughes, A.O. and Brown, B. (2008), "*Closing the Gap in Mathematics for DC Achievers*", Technical Report, University of the District of Columbia, Washington, DC. 20008. Submitted to the College Success and the Gates Foundations.
3. Khatri, D.S., Hughes, A.O. and Brown, B. (2007), "*Closing the Gap in Mathematics for Graduating High School Seniors*", Technical Report, University of the District of Columbia, Washington, DC. 20007.
4. Khatri, D.S., Hughes, A.O. and Brown, B. (2006), "*Closing the Gap in Mathematics for Graduating High School Seniors*", Technical Report, University of the District of Columbia, Washington, DC. 20008.

5. Khatri, D.S., Hughes, A.O. (2006), “*Faculty Development for Increasing Retention Rates in Freshman Level STEM Courses*”, Technical Report, University of the District of Columbia, Washington, DC. 20008.
6. Khatri, D.S., Hughes, A.O. (2006), “*Retention Rates of 100% in Introductory College Physics and Social Science Statistics*”, Technical Report, University of the District of Columbia, Washington, DC. 20008.
7. Khatri, D.S., Hughes, A.O. and Ausbrooks, B.N.(1996C), “*Predicting Enlistment Propensity of Young African Americans*”, January 1, 1998, Technical Report.
8. Khatri, D.S. and Hughes, A.O. (1996a), “*Teaching disability: a new solution. UDC-SPPARC*” Occasional Paper 96-1. Washington, D.C.
9. Khatri, D.S. and Hughes, A.O. (1996b), “*Rescuing the nontraditional and minority students through mandatory degree ++ certification. UDC-SPPARC*”, Occasional Paper 96-2. Washington, D.C.
10. Khatri, D.S., Ausbrooks, B.N. and Hughes, A.O.(1996C), “*Mainstreaming at-risk youth: an experimental verification of five social theories*”, UDC-SPPARC Manuscript 96-1. Washington, D.C. (submitted to *Clinical Sociological Review* for publication).
11. With Omid Omidvar and Anne Hughes. (1995), “*Reanalysis of existing personnel database using neural networks*”, U.S. Army Research Institute. Alexandria, VA.
12. With Joel Savell and Anne O. Hughes. (1995), “*Propensity-relevant Norms among African American Youth. U.S. Army*”, Contract with Army Research Institute. Alexandria, Va.
13. With Anne O. Hughes and Beth N. Ausbrooks. (1994), UDC-Anacostia Project 21: “*From At-risk in High School to Success in College*”, Proceedings of Conference. Collaborative Solutions to Urban Problems. State University of New York. Buffalo, N.Y.
14. With Anne O. Hughes. (1994), “*Investigation of the Determinants of Army Enlistment Propensity among Black High School Juniors and Seniors*”, Contract with Army Research Institute. Alexandria, Va.
15. With Anne O. Hughes and Beth N. Ausbrooks. UDC-Anacostia Project 21: “*Impact of High Technology on Minority Inner City At-Risk Youth*”, UDC-AES, Department of Agriculture. Sept 1992. (Research Bulletin).
16. Resource Book of Minority Institutions: Capabilities and Needs, by D. S. Khatri and Anne. O. Hughes, August 1991.
17. Summary Handbook of Projects: 1983-1987, by Anne Hughes and D. S. Khatri, August 1989

28 other Publications in computer science, physics and Education.