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# EDUCATION

**The City University of New York**, N.Y.,  1987 - 1993

Computer Science, **Ph.D**, February 1993.     GPA:  4.0/4.0

Ph.D. Advisor:     CUNY distinguished professor of computer science, Dr. Rohit Parikh.

Ph.D Thesis:    "Modelling Objects, Knowledge and Learning in Distributed Object-Based Systems"
(more than 90 copies requested from universities and research institutions worldwide).

**The College of Staten Island**, **CUNY**, Staten Island, N.Y., 1985 - 1987

Computer Science, **MS,** January 1987.    GPA:  3.83/4

Project:  Design and Implementation of a Front-End Database for a Multi-Level Expert System.

**Yaounde University**, Yaounde, Cameroon,            1976 - 1981

Mathematics, **Maitrise (MS)** September 1981, Thesis: "Theorem de Sard"(Differential Geometry)

Mathematics Major, **Licence (BS)** July 1980.  Mathematics & Physics Major, **DESF (AS)** July 1979.

# ACADEMIC EXPERIENCE

**William Paterson University of New Jersey**, Wayne, N.J.,  Department of Computer Science,

Assistant Professor:1992 - 2000  (tenured in 1997)      Associate professor:   September 2000-2009

Professor:  Since September 2009.  Chair of the department:  July 2019 – January 2022

**New Jersey Institute of Technology**, Newark, N.J., Dept. of Computer and Information Science,

Adjunct professor, Fall 98.  Taught two graduate courses in Concepts of Programming Languages.

**The College of Staten Island**, CUNY, Staten Island, NY ,  Computer Science Department

Graduate  Assistant,    Fall 87 - Spring 92;  Substitute Lecturer, Fall 86 - Spring 87.

# OTHER PROFESSIONAL EXPERIENCE

**Research Foundation of CUNY**, New York, 1988-1990 & 1991-1992

Research Assistant of CUNY distinguished professor of computer science, Dr. Rohit Parikh.

**Ivory Coast Ministry of Education**, Ivory Coast

High School Math. Teacher, C.E.G. d'Aboisso,  1983 - 1984 , C.E.G de Dabakala, 1981-1983

Supervisor of the Mathematic Committee for the B.E.P.C. exam, center of Aboisso, 1984.

# AWARDS and GRANTS

1. Who's Who Among America's Teachers: 1996, 1998, and 2005.

2. $800.00 grant from the School of Science and Health to revise my book, <u>Introduction to the Structure and Programming of Computer Systems</u>, fall 2003.

3. PI of a $75, 000.00 grant proposal submitted to the NSF in June 2003 to develop educational materials for the Assembly-Level Machine Organization and the Machine Level Representation of Data curriculum recommended by the 2001 ACM/IEE Curriculum Guideline (Not funded) .

4. $74,699.00 grant from the National Science foundation (NSF) to develop educational materials for a course in Mathematical and Computational Approaches to Molecular Biology. Awarded in the summer of 1999. CO-PI with David Miller, Math. Dept., PI, and Steve Vail, Biology Dept.

5. $4,000 (in 1996, 1998, and 1999 respectively) and $2,000 (in 1995) Summer Research grants from the Center for Research of the College of Science and Health, WPUNJ.

6. PI of a $10,000 incentive grant from William Paterson University of New Jersey to support the establishment of the Lab. assistance and tutoring/mentoring program in Computer Science. Awarded in fall 1997.

7. PI of a $500.00 grant from the NSF to participate to the Council on Undergraduate Research in April 11 -12, 1997 at Bethesda, Maryland.

8. Graduate School and University Center, CUNY, Fellowship, 1988 - 1989 and 1990 - 1992.


## PUBLICATIONS

### Refereed Journal/Conference Papers :

1. "Modelling Multiagent Systems", *International Journal of Computational Intelligence*, vol. 4, Number 2, pp 152-156, 2007.

2. "A Methodology to Determine and Agent's Procedural Knowledge", *Proceedings of IADIS International Conference on Cognition and Exploratory Learning in Digital Age*, Barcelona, Spain, December 8-10, pp 298-303, 2006.

3. "Minimizing Agent Specifications using a Logic of Knowledge and Actions", *Journal of Logic and Computation*, 11, pp 337-354, Editor-in-chief, D.M. Gabbay, Oxford University Press, April 2001.

4 "From Knowing How to Knowing That" , *Methodologies for Intelligent Systems 9*, pp 242-253, June 1996.

5 "Modelling Objects and Distributed Object-Based Systems", *Proceedings of the 10th Israeli Symposium on Artificial Intelligence, Computer Vision and Neural Network*, pp 39-49, Dec. 1993.

6 "Probabilistic Knowledge and Probabilistic Common Knowledge", *Methodologies for Intelligent Systems, 5*, Z.W. Ras, M. Zemankova, and M.L. Emrich, editors, North-Holland, pp 1-8, 1990. Co-authors: P. Krasucki and R. Parikh .

### Non-refereed:

"Modelling Objects, Knowledge and Learning in Distributed Object-Based Systems", Technical Report n⁰ 93-04-02, Dept. of Computer Science, CUNY Graduate School, April 1993. (More than 150 copies distributed).

### Books:

1. Programming wit C++: Concepts and Applications, Cengage Learning, 2008.

2. Introduction to the Structure and Programming of Computer Systems, Thomson Custom Publishing, 2006.


## SCHOLARLY ACTIVITIES

- Presented a paper, "Modelling Multiagent systems" at WASET XXIV International Conference, Nice, France, October 12-14, 2007.

- Presented a paper, "A Methodology to Determine and Agent's Procedural Knowledge", at *IADIS International Conference on Cognition and Exploratory Learning in Digital Age*, Barcelona, Spain, December 8-10, 2006.

- Reviewed grants proposal for the PSC CUNY in January 2007 and January 2008.

- Presented a paper, "Knowledge and Learning in a System of Autonomous Agents" at the 2006 William Paterson University Scholarship day.

- Invited to review a book for Prentice Hall in April 2003.

- Presented a paper, "Minimizing Agent Specifications and the Logic of Knowledge and Actions" at the 16th Workshop on the Mathematical Foundations of Programming Semantics, Stevens Institute of Technology, Hoboken, NJ, April 13-16, 2000.

- Evaluated a grant proposal for the PSC CUNY in January 1997.

- Attended the Council on Undergraduate Research April Dialogue, April 11-12, 1997, Bethesda, Maryland.

- Session chair of the Logic, Rationality, and Computation Symposium held at CUNY Graduate School, Nov. 22- 23, 96

- Invited by the Indian Association for Research in Computer Science to present my paper "From Knowing How to Knowing That" at a special session of the sixteenth Conference on The Foundation of Software Technology and Theoretical Computer Science, Hyderabad, India, December 16-17, 1996.

- Invited guest at the Institute of Mathematical Sciences, C.P.T. Campus, India, December 16-17, 1996; and at the Tata Institute of Fundamental Research, Mumbai, December 21-24, 1996.

- Presented a paper, "From Knowing How to Knowing That", at the 9th International Symposium on Methodologies for Intelligent Systems, Zakopane, Poland,  June 9-13, 1996.

- Presented a paper, "From Knowing How to Knowing That" at the 4th International Symposium on Artificial Intelligence and Mathematics, Fort Lauderdale, Florida, January 3-5, 1996.

- Attended ICMAS '95, the first International Conference on Multi Agent Systems, San Francisco, California, June 12- 14, 1995.

- Presented a paper, "Modelling Objects and Distributed Object-Based Systems", at the 10th Israeli Symposium on Artificial Intelligence, Computer Vision and Neural Network, December 27-28, 93.

- Invited to attend the Second Workshop on Rough Sets, Banff, Canada, October 12-15, 1993 .

- Invited to attend the Third Conference on Theoretical Aspects of Reasoning about Knowledge, Asilomar Conference Center, Pacific Grove, California, March 4-7, 90.

- Refereed papers for:
  a)   International Journal of Foundations of Computer Science (1994 and 1995),

b)    International Symposium on Methodologies of Intelligent Systems '96,

c)    Foundations of Software theory and Theoretical Computer Science (FST&TCS), 95 and 97.

## PROFESSIONAL ORGANIZATIONS
- Member of the Association of Computing Machinery (ACM) since 1989.
- Member of the Interest Group in Pure and Applied Logics (IGPL) since 1993.
- Member of the Rough Set Community since 1993.

## SERVICE TO THE DEPARTMENT

1. **Chair of the Computer Science department**

- Spearheaded and coordinated the effort of the department in the revision and implementation of the CIT program including:

  o The introduction of 6 new core courses and 6 new elective courses

  o The revision of 5 core courses

  o The creation of a Cisco based network lab

  o The creation of a high-performance lab

  o The purchase and installation of a VM machine server

  o The purchase and installation of a Linux-based server computer

  o The training of a faculty member to maintain and manage the Cisco network lab and the security lab that is used to support our courses

  o Work with some CS alumni to design, purchase and install the Cisco based network lab, the VM server, and the high-performance lab.

- Work on the completion of the articulation agreement with the Egyptian-Partnership program.

- Work on the articulation agreement with some local colleges and high schools.

2. **Lab Assistance and Tutoring/Mentoring Program Coordination**

   **a.** Fall 2016 – Spring 2019 Coordinator of the department Tutoring Program and the Lab assistance program.

   **b.** Fall 2001 to Spring 2007  Coordinator of the department Tutoring/Mentoring Program: Recruited, scheduled, and supervised tutors and mentors each semester.  Worked with other faculty members in the department to provide additional help in the class room when needed.

Wrote the year end report that also includes an assessment of the effectiveness of the program in terms of student satisfaction and success.

**c.** Fall 1997 – Spring 2000 Coordinator of the department Lab. Assistance and Tutoring/Mentoring Programs:

Recruited, scheduled and supervised laboratory assistants and tutors/mentors each semester. I also made sure that lab hours were covered, and that computer science majors got proper assistance when they needed help with their laboratory assignment projects and homework.

## 2. ABET Accreditation Efforts

**a.** Spring 2019 revise the CS program learning outcomes in order to meet the new ABET accreditation requirements; write the ABET self-study report.

**b.** From Spring 2009 to present: coordinate all different assessment efforts (FCARs and CCARS) of the department and write all assessment reports.

**c.** Spring and summer 2009 Revised the BS in computer science program objectives and student outcomes in order to address the concerns observed by the previous accreditation team.

**d.** Spring and summer 2007 Wrote the "program objectives and assessment" section of the self-study report. Wrote the curriculum section of the self-study report.

**e.** Fall 2004 – Spring 2005 Revised the curricula of the following six courses to meet the ABET accreditation requirements:

- CS 280 Computer and Assembler Language
- CS 345 Operating Systems
- CS 382 Programming Languages
- CS 405 Systems Programming
- CS 420 Compiler Construction
- CS 445 Theory of Computation

## 3. Program and Course Assessments

**a.** Spring and summer 2009 Developed the BS in computer science program assessment procedure (FCARs and CCARs) and coordinated the efforts of the department in producing the different assessment reports.

**b.** Fall 2005 Developed the BS in computer science program Senior Exit Survey questionnaire

**c.** Fall 2005 Developed the BS in computer science program One-Year Alumni Follow-Up Survey questionnaire.

## 4. Course Development/Revision

**a.** Spring 2011 Develop two new courses for the CS/CIT programs: CS 4051 Internet Applications with Java and CS 4201 Database-Driven Web Applications.

**b.** Fall 2004–Fall 2005 Developed a new CS course (CS 215) designed to meet the General Preparation profile for the ISTE National Educational Technology Standards for Teachers; prepared (with the assistance of Dr Hilary Wilder) a test out exam for the course; created a test bank for the test-out exam; and prepared teaching materials, exercises, and lab assignments for

the hands-on part of this course.

**c.** Fall 1995 – Spring 1997  Developed four new courses:

- CS 382 Programming Languages
- CS 405 Systems Programming
- CS 490 Honors Computer Science Project
- CS 495 Internship

f. Fall 1995 – Spring 1997   Revised the following six courses:

- CS 230 Computer science I
- CS 280 Computer and Assembler Language
- CS 345 Operating Systems
- CS 420 Compiler Construction
- CS 445 Theory of Computation
- CS 480 Computer Science Seminar

g. Participated in the revision of two courses:

- CS 240 Computer Science II
- CS 260 Discrete Structures

## 5. Program Development/Revision

**a.** Fall 2005 – Spring 2006   Participated in the development of the minor program in MIS.

**b.** Fall 2001 – Spring 2003        As the chair of the department curriculum and planning committee, I coordinated the efforts of the department in revising the math and science requirements of the BS degree program in computer science in order to meet the new ABET accreditation requirements.

**c.** Fall 1995 – Spring 1997        As the chair of the department curriculum and planning committee, I planned and coordinated the revision of the BS degree program in computer science, in order to meet the CSAC accreditation requirements.

**d.** Summer 1995  After the Comprehensive Analysis of 1995, I did a comparative study of four BS degree programs in Computer Science in the New Jersey-New York area that are accredited by the Computer Science Accreditation Commission (CSAC) in order to evaluate our own BS degree program.  This study will later serve as the basis for our curriculum revision.

## 6. Community Outreach

Fall 1999 – Spring 2000        Served as the liaison between our department and the department of Computer and Information Science at NJIT.

## 7. Independent Studies Supervision and Advisement

Independent Studies supervision: Spring 2019 (one student for 3 credits); Fall 2002 (one student for 3 credits); Spring 2000 (one student for 3 credits);   Summer 1997 (one student for 3 credits); Spring 1996 (one student for 6 credits); Spring 1995 (two students for 3 credits each).

# SENATE and UNIVERSITY/COLLEGE/DEPARTMENT COMMITTEES

## 1. Faculty Senate

   **a.** Fall 2002 – Spring 2003     Member of the faculty senate ad hoc committee for the evaluation of the school Deans: Attended several meetings to formulate the evaluation questionnaires.

   **b.** Fall 1997 – Spring 2001     Represented the Computer Science department to the university faculty senate.

   **c.** Fall 1999 – Spring 2000     Member of the faculty senate executive board.

## 2. University

   **a.** Fall 2008 – Spring 2011   Member of the university Mentoring Network.

   **b.** Fall 2005 – Spring 2007   Member of the university Academic Support Group: the mission of this group is to provide a comprehensive student centered learning assistance, services, and resources for all undergraduate students.

   **c.** Fall 1997 – Spring 1998     university Information Technology Advisory Committee.

## 3. College of Science and Health:

   **a.** Fall 2011 to present    member of the college curriculum committee

   **b.** Fall 2002 Spring 2005     member of the Center for Research Advisory Board:

      The members of this committee read and evaluate summer grant proposals and make recommendations to the Dean of the School of Science and Health.

   **c.** Since Fall 2005          member of the school safety advisory  committee:

   **d.** Fall 1996 – Spring 1997     member of the school curriculum committee.

   **e.** Fall 1997 -  Spring 1998     member of the school challenge grant advisory committee.

   **f.** Fall1996 - Spring1997     member of the strategic planning committee.

## 4. Department of Computer Science:

   **a.** Fall 1993 – 2003 and Since Fall 2004    Curriculum and Planning Committee, chair (1995 to 1997, 2001 to 2003, and since Fall 2005 )

   **b.** Since Fall 2004    Assessment Committee, (chair)

   **c.** 2002 -2003, 2006-2007, and 2008-2019  Scheduling Committee,  chair (2006-2007, 2008-2009)

   **d.** 1997, 1999, 2002, and 2003  Retention and Tenure committee, chair (1999, 2002,  2003, 2013 - 2019)

   **e.** 1994 to present     Recruitment Committee, chair (2000-2001)

   **f.** 1995 – 1996     Budget Committee, chair (1995-1996)

   **g.** 1993 – 1995     Resource Management Committee, chair (1993-1995)

   **h.** 1993 – 1994     Library Committee.

5. **<u>Department of Elementary and Early Childhood Education</u>**:

Spring 2005 – Summer 2005     Recruitment committee.

6. **<u>Mathematics Department</u>**:

Spring 1996 and Spring 1997     Recruitment Committee.

7. **<u>Office of Minority Education</u>**

    **a.** Fall 2003 – Spring 2004     Minority Scholars' Achievement Network mentor.

    **b.** Summer 2001 EOF (Equal Opportunity Fund) Program: Computer Science instructor.

    **c.** Fall 1995 and Spring 1996     AMPS faculty mentor/advisor.

    **d.** Summer 1993 and Summer 1994 Pre-college Academy program: Computer Science instructor.