CURRICULUM VITAE


NAME:             Yedidyah Langsam, Ph.D., EMT-P
TITLE:            Professor

ADDRESS:          Department of Computer and Information Science
                  Brooklyn College
                  Brooklyn, New York 11210
                  718-951-4161
                  langsam@sci.brooklyn.cuny.edu

EDUCATION:
Polytechnic Institute of New York, Ph.D., Physical Chemistry, December 1978
Brooklyn College Graduate Division, M.A., Physical Chemistry, June 1976
Brooklyn College, B.S. cum laude, Chemistry, August 1973
Rabbinical Academy - Gur Aryeh Institute for Advanced Jewish Scholarship, Rabbinics, August 1973
Suffolk County Community College, AEMT III/CC, May 1990
The New York Methodist Hospital, AEMT-Paramedic, February 1997



EXPERIENCE:
     Academic

Brooklyn College, Murray Koppelman Professor, (2004-2006), Professor (1997), Associate
        Professor (1986), Assistant Professor (1981) and Deputy Chairperson (1981-2009),
        Chairperson, Department of Computer and Information Science, 2009-present
Graduate School and University Center of C.U.N.Y., Doctoral Faculty, Department of Chemistry,
        1984-1990; Doctoral Faculty Department of Computer Science, 1986, 2011-
Brooklyn College, Instructor, Computer and Information Science, 1980-1981
Brooklyn College, Adjunct Assistant Professor, Computer and Information Science, 1978-1980
Brooklyn College, Research Associate, 1973-1978
New York Institute of Technology, Instructor, Computer Science, 1978-1980
Brooklyn College, Adjunct Lecturer, Chemistry, 1973-1978
Brooklyn College, College Laboratory Technician, Summer 1975

     Other
Philips/Medcare, Consultant, 1999-2003
Emergency Care Programs, Consultant and Lecturer, 2000-2008
L.I.C. Industries Inc., Senior Scientist, 1979-1980
Prospect Park Yeshiva High School, Teacher Advanced Mathematics, 1977-1980
Yeshiva Chaim Berlin, Teacher, Science and Mathematics, 1972-1978
Yeshiva Chaim Berlin, Assistant Principal, 1974-1976
Youth Service Administration, New York City, Summer 1973, 1974
Yeshiva Mogen David, Substitute Teacher Hebrew Language and Talmudics, 1972
Yeshiva Zichrone Moshe, Substitute Teacher, Science and Mathematics, 1969-1973
Hebrew Institute of Long Island, Substitute Teacher, Hebrew Language and Talmudics, 1972
Yeshiva of Brighton, Substitute Teacher, Science and Mathematics, 1968-1969

ACADEMIC AND PROFESSIONAL HONORS:

Listed in:
- Who's Who in American Education
- Who's Who in the East
- Who's Who in Technology Today
- Who's Who in the USA
- Who's Who of Emerging Leaders in America

Phi Beta Kappa
Murray Koppelman Professorship 2004-2006
Advanced Life Support Provider of New York City, REMSCO of N.Y.C., 2000
Service Award, Brooklyn College Faculty Day, 1997
Certificate of Appreciation, CUNY Baccalaureate Program, 1995
Nominated for Brooklyn College "Teacher of the Year", 1995
Upsilon Pi Epsilon Computer Science Honor Society
Alpha Sigma Lambda National Honor Society of Evening Colleges
Sigma Xi Research Honor Society
Dean's Honor Lists - Brooklyn College, 1970, 1971
New York State Regent Scholarship, 1971; Ohio State Scholarship, Chemistry, 1968

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

American Association for the Advancement Science, Association for Computing Machinery, Sigma Xi; past member of: American Chemical Society, American Physical Society, Association for Computational Linguistics, Past member of Board of Governors and past Vice President of the Association of Orthodox Jewish Scientists

PRINCIPAL RESEARCH INTERESTS:

Computer Science Education for STEM students
Use of Robotics in Computer Science Education
Medical and Respiratory Care Informatics
Implementation of efficient data-structures on microcomputers
Microcomputer Local Area Networks and Internet technology
Implementation of Natural Language parsing algorithms and the representation of syntactic structures
Interactive personal computer graphics

MISCELLANEOUS PROFESSIONAL ACTIVITIES:

Chairman of the Regional Emergency Medical Services Council of New York City, 2012-present

Member of the Emergency Medical Services Council of New York State, Appointed by the Commissioner of the Department of Health of NY, 2010-2019

Chairman of the Ambulance Subcommittee of the Regional Emergency Medical Services Council of New York City, 2009-2012

Member of the Regional Emergency Medical Services Council of New York City, 1995-present

Member of the Medical Standards Subcommittees of the Regional Emergency Medical Advisory Committee of New York City, 1995-present

Member of Protocol Subcommittee of the Regional Emergency Medical Advisory Committee of New York City, 1995-present

Member of Training Subcommittee of the Regional Emergency Medical Services Council of New York City, 1995-present

Member of Advanced Life Support Protocol Committee, Hudson Valley Regional Emergency Medical Services Council, 1995-1996

Course Administrator, The New York Methodist Hospital Advanced Life Support Program, 1995-2008

Course Administrator, HVAC Advanced Life Support Program, 1995-present

Member of Advanced Life Support Protocol Committee, Hatzalah Volunteer Ambulance, 1990-2010

Site Visitor, Association of Advanced Rabbinical and Talmudic Schools (AARTS)

Co-director and consultant, Adult Education Program -Microcomputers and Word Processing, Brooklyn College, Summer 1982

Member of Technical Committee MICRO-PLEY, Agudath Israel (Micro Computer Program for Learning and Education in Yeshivos)

Advisor and consultant to local high schools in the following areas:
design of a senior level course in computer science, career counseling and creation of a syllabus for a post-graduate computer technology training program

Yeshiva of Flatbush Science Advisory Council, 1985-1990

PUBLICATIONS:

1. Y. Langsam, *Workbook for Java,* self-published, 2018, 1st edition, 443 pages

2. A. Tenenbaum and Y. Langsam, "A 31-Year Record of CS Enrollment at a Single Urban Public Institution, Proceedings of the WORLDCOMP'14 - The 2014 World Congress in Computer Science, in Frontiers in Education: Computer Science and Computer, Engineering, July 2014, 303-309

3. A. Delman, A. Ishak, L. Goetz, M. Kunin, Y. Langsam and T. Raphan, "Development of a System for Teaching CS1 in C/C++ With Lego NXT Robots", Proceedings of the WORLDCOMP'10 - The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing

4. Y. Langsam and T. Raphan, Science Applications for an Introductory Programming Course, at http://eilat.sci.brooklyn.cuny.edu/science/, 2010

5. A. Delman, L. Goetz, Y. Langsam, and T. Raphan, "Development of a System For Teaching C/C++ Using Robots in the first CS1 Course Using Open Source Software", Proceedings of the WORLDCOMP'09 - The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing

6. A. Delman, L. Goetz, Y. Langsam, and T. Raphan, *Programming the LEGO™ Mindstorms Robot Using C++, Code::Blocks, BrickOS and the BrickEMU - CPlusVEBot: C++ Virtual Environment for Programming Robots* at http://eilat.sci.brooklyn.cuny.edu/cis1_5/Programming the LEGO.pdf, 2009

7. C. Mussa and Yedidyah Langsam, "An Exploratory Study of the Management and Processing of Respiratory Care Information in Respiratory Care Departments", Respiratory Care, 52(6), June 2007

8. Y. Langsam, *Workbook for C++*, Pearson Press, 2007, 2nd edition, 2009

9. C. Gurwitz, T. Raphan, and Y. Langsam, Repository of Science-based Programming Assignments, at http://eilat.sci.brooklyn.cuny.edu/science/, 2007

10. L. Goetz, Y. Langsam, and T. Raphan, *Code::Blocks Student Manual*, at http://www.sci.brooklyn.cuny.edu/~goetz/codeblocks/codeblocks-instructions.pdf, 2006; Version 8.02, 2008

11. G. Foltin, MD, M. Tunik, MD, J. Curran, MD, L. Marshall, MD, J. Bove, MD, R. VanAmerongen, MD, A. Cherson, DO, Y. Langsam, PhD, B. Kaufman, MD, G.Asaeda, MD, D. Gonzalez, MD, A. Cooper, MD, "Pediatric Nerve Agent Poisoning:  Medical and Operational Considerations for Emergency Medical Services in a Large American City", Pediatric Emergency Care, April 2006, 22(4):239-44

12. Y. Langsam, "CIS 1.5 – Introduction to Programming Using C++ - Course Notes and Ancillary Material", at http://eilat.sci.brooklyn.cuny.edu/cis1_5/CISClassPage.htm , 2006

13. C. Mussa and Yedidyah Langsam, "Is Respiratory Care Informatics a Legitimate Area of Study Within the Science of Respiratory Care?," Proceedings of the 50th International Respiratory Congress of the American Association for Respiratory Care, New Orleans, December 6, 2004

14. Y. Langsam, A. Tenenbaum, and M. Augenstein, *Data Structures Using Java: An Object Oriented Approach*, Prentice-Hall, 2003; *Solutions Manual & Instructor's Guide for Data Structures Using Java: An Object Oriented Approach*, Prentice-Hall, 2003

15. Y. Langsam "Regional Emergency Medical Services Council of New York City Web Site", at http://www.nycremsco.org, 1998-2003

16. C. L. Capozzi and Yedidyah Langsam, *Solutions Manual for Data Structures Using C and C++* (with software), Prentice-Hall, 1998

17. Y. Langsam, "CIS 52 - Multimedia - Course Notes and Ancillary Material", at http://eilat.sci.brooklyn.cuny.edu/cis52/, 1997-present

18. Y. Langsam, "CIS 13.2 - Advanced Personal Computers & Applications - Course Notes and Ancillary Material", at http://eilat.sci.brooklyn.cuny.edu/cis13-2/, 1997

19. Y. Langsam and J. Jones, "Advice to Graduates, WWW edition" at http://www.brooklyn.cuny.edu/bc/depthome/cis/, 1996.

20. Y. Langsam, "Computer-Aided Medical Control - Database and Hypertext Help System", (software complete-installed The New York Methodist Hospital, paper in preparation).

21. Y. Langsam, *Workbook for C*, Brooklyn College Press, 1996; Prentice Hall, 1996.

22. Y. Langsam, M. Augenstein and A. Tenenbaum, *Data Structures Using C and C++*, Prentice-Hall, 1996; International edition 1996; Spanish edition, 1997

23. Y. Langsam, "Advanced Life Support Protocols - A Hypermedia WWW Presentation" at http://eilat.sci.brooklyn.cuny.edu/, 1995.

24. Y. Langsam and J. Jones, "Advice to Undergraduates, WWW edition" at http://www.sci.brooklyn.cuny.edu/cis/main/ugrad/ugrad.html, 1995.

25. A. Tenenbaum, Y. Langsam and M. Augenstein, *Data Structures Using C*, Prentice-Hall, 1990 (alternate selection Computer Science Book of the Month Club); Korean edition, 1992; Spanish edition, 1993; Portuguese edition, 1995, Chinese edition, 1996.

26. D. T. Langendoen and Y. Langsam, "A New Method of Representing Constituant Structures", in *The Uses of Linguistics*, E. Bendix, ed., New York Academy of Sciences, **583**, May 25, 1990.

27. D. T. Langendoen, D. McDaniel and Y. Langsam, "Preposition-phrase Attachment in Noun Phrases", presented at the Second Annual CUNY Conference on Human Sentence Processing, New York, New York, March 16-18, 1989; J. of Psycholinguistic Research, **18**(6), 533-548, Nov. 1989.

28. M. Augenstein and Y. Langsam, "Automatic Generation of Graphic Displays of Data Structures Through a Preprocessor", presented at the Nineteenth SIGCSE Technical Symposium, February 25-26, 1988, Atlanta, Georgia; SIGCSE Bulletin, **20**(1), 1988

29. D.T. Langendoen and Y. Langsam, "On the Design of Finite Transducers for Parsing Phrase-Structure Languages", in *Mathematics of Language*, Alexis Manaster-Ramer, ed., John Benjamins Publishing Co., 1987

30. D. E. Goldberg, K. Harrow and Y. Langsam, *Pascal Exercise Manual*, Brooklyn College Press, 1987

31. D. E. Goldberg, K. Harrow and Y. Langsam, *Getting Started on the IBM PC for Pascal Programmers*, Brooklyn College Press, 1986.

32. M. Augenstein and Y. Langsam, "Software for Data Structures", (available from the authors upon request).

33. M. Cohen, Y. Langsam and S. Wynne, *The Langsam-Spira Family*, The Langsam Genealogical Organization, 1986.

34. M. Kramer and Y. Langsam, "The Personal Computer as the Scientist's Sidekick", Abstracts of the 8th Rocky Mountain Regional Meeting of the American Chemical Society, 1986.

35. S. M. Azar and Y. Langsam, "Using the IBM PC to Display Chemical Graphics", Abstracts of the 8th Rocky Mountain Regional Meeting of the American Chemical Society, 1986.

36. M. Augenstein and Y. Langsam, "Graphic Display of Data Structures", Proceedings of NECC '86, National Educational Computing Conference, 1986.

37. K. Harrow, Y. Langsam and D. E. Goldberg, "Teaching PL/I Using a Microcomputer", SIGCSE Bulletin, **18**(3), 1986.

38. M. Augenstein and Y. Langsam, "Graphic Displays of Data Structures on the IBM PC", presented at the Seventeenth SIGCSE Technical Symposium on Computer Science Education, Cincinnati, Ohio, February 6- 7, 1986; SIGCSE Bulletin, **18**(1), 1986.

39. K. Harrow, Y. Langsam, A. Tenenbaum and S. Zachos, "A Transition Plan to Introduce Pascal as the Primary Programming Language in Computer Science Education", Brooklyn College Computer Science Technical Report, TR-9-85, 1985.

40. K. Harrow, D. Goldberg and Y. Langsam, "Using PL/I-86 on the IBM PC", Brooklyn College Computer Science Technical Report, TR-8-85, 1985.

41. K. Harrow, Y. Langsam and D. Goldberg, "Teaching PL/I on the IBM PC", Brooklyn College Computer Science Technical Report, TR-7-85, 1985

42. M. Augenstein and Y. Langsam, "Interactive Display of Data Structures on the IBM PC", Poster session at the Ninth IBM University Study Conference, October 1984

43. M. Augenstein and Y. Langsam, "Software for Data Structures", Proceedings of the Ninth IBM University Study Conference, October 1984

44. D. T. Langendoen and Y. Langsam, "Modeling the Recognition of Constituent Structures in Natural Languages", (submitted to J. of Computational Linguistics)

45. W. N. Schreiner, M. Kramer, S. Krischer and Y. Langsam, "Non-Linear Least Squares Fitting with the Marquardt Algorithm", PC Tech Journal, **3**(50), 170, May 1985 (with software)

46. Y. Langsam, M. Augenstein and A. Tenenbaum, *Data Structures for Personal Computers*, Prentice-Hall, 1985 (selected for the McGraw-Hill and Macmillan Book of the Month Clubs)

47. Y. Langsam, M. Augenstein and A. Tenenbaum, Software for Data Structures for Personal Computers, IBM PC edition; Apple edition, Prentice-Hall, 1985

48. D. T. Langendoen and Y. Langsam, "The Representation of Constituent Structures for Finite-State Parsing", Proceedings of COLING 84 -Conference on Computational Linguistics, 24-27, Stanford University, July 1984, (cited in Comm. of the ACM, **32**(10), 1989, page 1174)

49. D. E. Goldberg, K. Harrow and Y. Langsam, *PL/I and PL/C Exercise Manual*, Brooklyn College Press, 1982, 1983; Prentice-Hall, 1984

50. Y. Langsam and A. M. Ronn, "Laser Induced Vibrational Energy Transfer in Iron Pentacarbonyl", J. Chemical Physics, **80**(2), 749, 1984

51. Y. Langsam, "Report on the Plenary Sessions of the 1982 AOJS Convention: Genetic Counseling and Engineering, Family Conflicts and Therapy, and Measurement Standards", Intercom, **20**(1), 1983

52. Y. Langsam, "The Power Case System", Creative Computing, June 1983

53. Y. Langsam and J. Segal, "Using Computer Technology for General Education: How Effective Is It?", Proceedings of the New York State Legislative Commission on Science and Technology, November 1982

54. J. Berger and Y. Langsam, *A Word Processing Tutorial for the Word Handler II and Apple II Plus Microcomputer*, Brooklyn College Press, 1982

55. Y. Langsam and A. M. Ronn, "The Kinetics and Mechanism of Dissociation of Metal Carbonyls in High Laser Fields", Chemical Physics, 54, 277, 1981

56. Y. Langsam, A. Tenenbaum and J. Thurm, "Computer-Aided Spectral Identification of Plasma Emission Produced by Laser Induced Dielectric Breakdown", Journal of Chemical Information and Computer Science, 20, 230, 1980

57. Y. Langsam and A. M. Ronn, "Vibrational Relaxation and Intermode Crossing in Iron Pentacarbonyl", Abstracts of the Tenth Northeast Regional ACS Meeting, 1980

58. Ph.D. Dissertation, "Laser Induced Chemistry of the Metal Carbonyls", 1978

59. Master's Thesis, "Vibrational Energy Transfer of $CH_3I$ and $CD_3I$", 1976

60. Y. Langsam, S. M. Lee and A. M. Ronn, "Vibrational Energy Transfer in $CD_3I$", Chemical Physics, 15, 43, 1976

61. Y. Langsam, S. M. Lee and A. M. Ronn, "Vibrational Energy Transfer in $CH_3I$", Chemical Physics, 14, 375, 1976

62. Y. Langsam, S. M. Lee and A. M. Ronn, "V-V and V-T/R Energy Transfer in $CD_3I$", Bulletin of the American Physical Society, 21 (1), 14, 1976

63. Y. Langsam, S. M. Lee and A. M. Ronn, "V-V and V-T/R Energy Transfer in $CH_3I$", Bulletin of the American Physical Society, 21 (1), 14, 1976

64. S. Aronson, G. Sinesky, Y. Langsam and M. Binder, "Iodine Vapor Pressure Measurements on Complexes of Iodine with Polynuclear Aromatic Hydrocarbons", Journal of Inorganic and Nuclear Chemistry, 38, 407, 1976

Scholarly Activities

1. Reviewer for Journal of Computer Science Education, 2011

2. Presented Talk, WORLDCOMP'10 - The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing - FECS'10 - The 2010 International Conference on Frontiers in Education: Computer Science and Computer Engineering, "Development of a System for Teaching CS1 in C/C++ With Lego NXT Robots", with A. Ishak, A. Delman, L. Goetz, M. Kunin and T. Raphan, July 15, 2009

3. Presented Talk, WORLDCOMP'09 - The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing - FECS'09 - The 2009 International Conference on Frontiers in Education: Computer Science and Computer Engineering, "Development of a System For Teaching C/C++ Using Robots in the First CS1 Course Using Open Source Software", with A. Delman, L. Goetz, and T. Raphan, July 15, 2009

4. Referee for the SIGCSE Technical Symposiums, 1997-present.

5. Invited Talk, Boro Park Hatzalah Volunteer Ambulance Corps, " NYC Paramedic Protocol 2009 Upgrade", April 1, 2009

6. Invited Talk, East Midwood Volunteer Ambulance Corps, " BLS Protocol 2009 Upgrade", March 15, 2009

7. Invited Talk, St. Mary's Hospital, Waterbury, CN, Jewish Medical Ethics & Patient Care, May 17, May 17, 2005

8. Invited Talk, Waterbury Hospital, Waterbury, CN, Jewish Medical Ethics & Patient Care, April 4, 2001

9. Reviewer for Computer Science Education on CSE in high schools. 2003

10. Invited Talk, Roosevelt Hospital, Jewish Medical Ethics & Patient Care, April 4, 2001

11. Presented Research Seminar, "A Computer-Aided Medical Control System Using the Windows Help System", The New York Methodist Hospital, Emergency Department Research Group, April 19, 1995.

12. Established and maintained (with D. Arnow) a World Wide Web Departmental Home Page, http://www.brooklyn.cuny.edu/depthome/cis/, 1995.

13. Reviewer of *IS '95 Curriculum*, IEEE-ACM, 1995

14. Reviewer for the Twenty-Ninth Hawaii International Conference on Systems, 1995.

15. Invited Speaker, Brooklyn College Computer Science Society, "CIS Electives & Career Paths", March 20, 1991.

16. Presentation to CUNY Computer Science Department Chairs, "Enrollment Statistics", October 13, 1989.

17. Invited Speaker, at the Hudson Bergen Section of the American Chemical Society, "MathCad and the Chemist", May 3, 1989.

18. Invited Convocation Speaker, "The Micro Millennium - Computers Who Think", West Virginia State College, April 17, 1989

19. Presented talk at the Second Annual CUNY Conference on Human Sentence Processing, "Preposition-phrase Attachment in Noun Phrases", with D. Terence Langendoen and Dana McDaniel, New York, New York, March 16-18

20. Reviewer for the Joint ACM/IEEE-CS Curriculum Task Force, "Curriculum 1989 of the Association for Computing Machinery", 1989

21. Invited talk - at the Association of Computer Machinery, CSC'89, Chairman's Session, "Retention Techniques for Computer Science Majors", Louisville, Kentucky, February 21-24, 1989

22. Presented Departmental Colloquium, "Numerical Methods Using MathCad", attended by faculty and students, October 26, 1988

23. Presented Departmental Colloquium, "Automatic Generation of Graphic Displays of Data Structures Through a Preprocessor", attended by faculty and students, April 27, 1988

24. Presented talk -  at the Eighteenth SIGCSE Technical Symposium on Computer Science Education, "Automatic Generation of Graphic Displays of Data Structures Through a Preprocessor", with M. Augenstein, Atlanta, Georgia, February 25-26, 1988

25. Presented Chemistry Department Colloquium, "Use of the Personal Computer by the Scientist", attended by faculty and students, November 26, 1986

26. Invited symposium - 8th Rocky Mountain Regional Meeting, American Chemical Society, "The Personal Computer as the Scientist's Sidekick", with M. Kramer, Denver, Colorado, June 8-12, 1986

27. Project presentation - 8th Rocky Mountain Regional Meeting, American Chemical Society, "Using the IBM PC to Display Chemical Graphics", with  S. Azar, Denver, Colorado, June 8-12, 1986

28. Project presentation - NECC '86, 7th National Educational Computing Conference, "Graphic Displays of Data Structures", with M. Augenstein, San Diego, California, June 4-6, 1986

29. Presented talk - at the Seventeenth SIGCSE Technical Symposium on Computer Science Education, "Graphic Displays of Data Structures on the IBM PC", with M. Augenstein, Cincinnati, Ohio, February 6-7, 1986

22. Invited to the IBM - University Study Conference, Santa Clara, California, November 10-14, 1985

23. Invited talk - Courant Institute of Mathematical Sciences, "A Mixed Polish Notation for Natural Language Parsing", with D. T. Langendoen, December 10, 1984

24. Presented Departmental Colloquium, "The FORTH Language", attended by faculty and students, October 31, 1984

25. Invited to the IBM - University Study Conference, Ft. Lauderdale, Florida, October 22-24, 1984

26. Invited talk - Summer Convention of the Association of Orthodox Jewish Scientists, "Ethics and the Computer Professional", 1984.

30. Panel Moderator - Purchasing A Personal Computer (?), The Humanities Institute, Brooklyn College, March 21, 1984

31. Invited talk - New York Academy of Sciences, "The Representation and Computation of Syntactic Structures", with D. T. Langendoen, December 5, 1983

32. Reviewed books for Allyn and Bacon, Inc., D.C. Heath, Franklin Watts, Inc., Prentice-Hall, and Wm. C. Brown Publishers

33. Invited to the IBM - University Study Conference, Raleigh, N.C., October 17-19, 1983

34. Participated in the NEH-Mellon Core Studies Faculty Development Project, June 7-10, 1983

35. Presented Departmental Colloquium, "The CP/M Operating System", attended by faculty and approximately 75 students, April 1982

33. Workshop Moderator - Computer Conference II, New York State Legislative Commission on Science and Technology (sponsored by the Humanities Institute at Brooklyn College), November 10, 1982

34. Core Studies 5 Faculty Seminar - panelist, February 4, 1981

TEACHING EXPERIENCE

| | |
|---|---|
| Chemistry 0.7 | Fundamentals of Chemistry |
| Chemistry 1 | General Chemistry I |
| Chemistry 1.5 | General Chemistry for the Health Sciences |
| Chemistry 2 | General Chemistry II |
| C.I.S. 0.1 | Computers in Our Society |
| C.I.S. 1.1 | Introduction to computing with General Applications Using PL/I |
| C.I.S. 1.10 | Introduction to computing with General Applications Using Pascal |
| C.I.S. 1.20 | Introduction to computing with Scientific Applications Using Pascal |
| C.I.S. 1.5 | Introduction to computing with General Applications Using C |
| C.I.S. 1.5 | Introduction to computing with General Applications Using C++ |
| C.I.S. 1.5 | Introduction to computing with General Applications Using C++ for STEM students |
| CISC 1115 | Introduction to computing Using Java for STEM students |
| C.I.S. 3.X | Self-instruction in PL/I, FORTRAN, COBOL and JCL |
| C.I.S. 5.2 | Microcomputers in Business and Administration |
| C.I.S. 5.2 | Fully Online: Microcomputers in Business and Administration |
| C.I.S. 13.2 | Advanced Personal Computer Techniques for Business Applications |
| C.I.S. 14 | Basic Techniques of Program Design and Analysis |
| C.I.S. 15 | Advanced Programming Techniques Using C |
| C.I.S. 21 | Data Structures |
| C.I.S. 22 | Elementary Data Structures and Programming |
| C.I.S. 24 | Programming Languages |
| C.I.S. 44 | File Processing |
| C.I.S. 45 | Information Organization and Retrieval |
| C.I.S. 52 | Multimedia Computer Systems |
| C.I.S. 60.X | Independent and Group Projects |
| C.I.S. 84.X | Seminar in Special Topics (Honors projects) |
| C.I.S. 605X | Microcomputers for Business and Administration |
| C.I.S. 710X | File Structures and Processing (Graduate) |
| C.I.S. 760X | Advanced Personal Computer Techniques for Business Applications |

Research Supervisor - 34 undergraduate, 6 Master's, and 1 Ph.D. students, 1986- present

Designed the course C.I.S. 17, Multimedia Computing with L. Goetz, Spring 2005

Designed the course CIS 3.2 and BUS 77, Electronic Commerce with H. Friedman, Economics, Fall 1999

Designed the course C.I.S. 52, Multimedia Computer Systems, Spring 1995

Participated in the experimental offering of C.I.S. 1.5, Fall 1994

Designed the courses C.I.S. 13.2 and C.I.S. 760X, Advanced Personal Computer Techniques for Business Applications, with A. Tenenbaum, Fall 1986

Designed the course C.I.S. 5.2, Microcomputers in Business and Administration, with A. Tenenbaum, Fall 1984, (currently the most popular C.I.S. course)

Ford Foundation Colloquium Faculty Mentor, Ms. Shirley Velinor, 1989-1992

Midwood High School - Brooklyn College Science Project Faculty Mentor, Ms. Lydia Sausa, 1989-1991

Faculty Freshman Mentor, 9 students, 1987-1991
Eureka Program Faculty Mentor, 4 students, 1988-1992
Faculty Mentor, Brooklyn College Scholars Program, Mr. Jeffrey Perlman, Fall 1984-1988
Faculty Mentor, Brooklyn College, CIS 4900, Mr. Devon Alleyne, 2019-

Faculty Advisor, CUNY Baccalaureate Program

| | |
|---|---|
| Giauluca Parise 2000-2002 | David Preisler, Fall 1985-1987 |
| Wyne Ince, Spring 1994-1995 | Rafael Koscialkowsky, 1994-present |
| Boris Bass, Spring 1992-1994 | Judith Kane, Summer 1985-1988 |
| Joan Richter, Fall 1990-1992 | Richard Viera, Spring 1985-1988 |
| Andrew Schwartz, Fall 1989-1993 | Donna J. Druckman, Fall 1984-1986 |
| Geela Naiman, Fall 1985-1990 | Kok-heng Teng, Fall 1983-1985 |

Ph.D. Dissertation Committee
    L. Grunfeld, C.I.S., 1990-1992
    M. Kramer, Physics, 1983-1988
    C. Barve, Physics, 1987-1988

M.A. Thesis Committee

Rafaa Aljurbua, Master Thesis Advisor, *Privacy and Security in Healthcare Organizations*, Summer 2017-

Karunya Rajagopalan/CIS, 2015-2016

Constance Mussa, Health & Nutrition Science/CIS, 2001-2004

Qun Wang, Health & Nutrition Science/CIS, 1997-1999

George Emmanoulidis, 1992-1996          Michael Boaz, 1992-1993

Nathan Shoykhet, 1990-1995              Rafaa Aljurbua, 2017-2018

Rennie Gonsalves, 1987-1988             Oniha, Georgina, 2018-2019

Joannie Shoykhet, 1990-1995

Evaluated and produced a report on the proposed use of PL/I-86 in the undergraduate curriculum, Spring 1983

Designed the experimental course C.I.S. 5.1 - Education 68, Microcomputers in Education, with D. Geddes and R. Tischler, Spring 1983

Preparation of a syllabus for "Computers and Society", Master of Arts in Liberal Studies Program, Fall 1981

GRANTS

CUNY 2x Partnership, PI. 2019-, $2.8 million

"Computing Studio", Brooklyn College Student Technology Fee Award 2011-2012

"C++, Lego Robots and a Uniform Environment for the Teaching of Computer Programming", PSC CUNY Award Program, 2009-2010, $4,300

"Multimedia Enhanced Distance Learning for the Medical Sciences", PSC CUNY Award Program, 2000-2001, $2,837.00

Participated in the writing and development of an Institutional Title III Grant to the Department of Education for a College-wide Learning Center, 1992

"Ada - Programming Tools for Data Structures", PSC CUNY Award Program, 1988-1989, $1,823

"Improved Program Development Tools for Data Structures", with M. Augenstein, PSC CUNY Award Program, 1987-1989, $5,500

"Automatic Generation of a Pascal Interface to Graphic Display Programs", with M. Augenstein, PSC-CUNY Award Program, 1986-1987, $4,200

"Unix Software Development", AT&T Information Systems, 10/1/85, $5,095

"IBM PC Networks for Student Systems", with V.P. L. Mucciolo, University Office of Academic Affairs - C.U.N.Y., 10/1/84-8/31/85, $20,000

"Software for Data Structures", with M. Augenstein, IBM Corporation, 9/1/84-1/31/86, $120,000 + $65,000 equipment

"Modeling the Recognition of Constituent Structures in Natural Languages", with D. T. Langendoen, FRAP, 1984-1985, $8,950

"Enhancements of the IBM Personal Computer", with F. Beckman, M. Augenstein, A. Tenenbaum and C. Ziegler, IBM Corporation, 4/1/83- 6/30/84, $120,000

"Application of Microcomputers with Graphic Capabilities to Group Theory and Molecular Symmetry", FRAP, 1983-1984, $4,681

Numerous small grants for software and hardware from various vendors, approximately $5000

Grants not Funded

"Multimedia Enhanced Distance Learning for the Medical Sciences", 1998-99 GRTI – CUNY Award Program, $25,000

"Hypertext Development System for Data Structures", with M. Augenstein, PSC CUNY Award Program, 1990-1991, $11,800

"Hypertext Development System for Data Structures", with M. Augenstein, Preliminary proposal submitted to Directorate for Science and Engineering Education, 1989-1990, $105,089

"REU: Undergraduate Research Site in Computer Science at Brooklyn College", National Science Foundation, 1987, $56,711, with A. Tenenbaum

"Local Area Networks Development", submitted to Applied Science Institute, Brooklyn College, with A. Tenenbaum

"A Comprehensive Software Instructional Tool in Computer Science", National Science Foundation, 1987-1989, $440,094, with M. Augenstein

"CBASIC to Turbo Pascal Translator", Automated Micro Solutions, Inc., 1987, $52,049

Service to the University:

    Pathways Computer Science Major Committee, Spring 2013 -
    Faculty Senate Alternate Delegate, Spring 2000-2002


Service to Brooklyn College:

    Administrative Service
            Chairman, Computer and Information Science Department, 2009-present
            Deputy Chairman, Computer and Information Science Department - CLAS, Fall 1981-2009
            C.I.S. 0.1 Coordinator, 1980-1982


    Service to College and/or Presidential Committee
            Faculty Council, Chair, October 2012-present
            Faculty Student Disciplinary Committee (Rotating Chairs) 2019-
            Provost's Workload Committee 2019
            Member College Citizenship Selection Committee 2012
            Faculty Council Steering Committee, Spring 2005-present
            Faculty Council Parliamentarian, Spring 2010-present
            Faculty Council Committee on College Integrity, Spring 2010-present
            Faculty Council Committee on Committees - Spring 2004- present; Chair Spring 2005-
                present
            Executive Committee of Policy Council, 2010-
            Search Committee for Dean of School of Natural & Behavioral Sciences, 2010-2011
            Science Complex Design Phase Working Committee, 2010-present
            Initiated Faculty Exchange Program with The Open University Israel, Fall 2009
            Provost's Committee on Early College Programs. Spring 2009-present
            Dean's Committee on Departmental Grade Appeals, Fall 2008-2009
            Provost's Educational Technology Committee, Spring 2008
            Middle States Accreditation Working Group I, Spring 2007-Spring 2009
            Acting Secretary of the Faculty, Fall 2007
            Promotion to Full Professor Science Subcommittee, Chair, Spring 2006
            Faculty Council Committee on Undergraduate Curriculum and Degree Requirements, Chair,
                Fall 2001-2005
            Policy Council, Fall 1997-1999; 2003-present
            Policy Council Governance Committee, 2012-present
            Strategic Planning Committee: Undergraduate Academic Advisement Committee, 2005-
                2006
            Provost's Committee to evaluate the grid 2004- 2006
            Task Force on Academic Integrity, Spring 2000-2003
            Faculty Council Committee on Course & Standing, Spring 1994-1997, Chair, Fall 1995-
                1997, Chair, Fall 1999-2001
            Core 7.2 Task Force, Spring 99

Faculty Council Committee of Review of Programs, Fall 1993-1994

Departmental Delegate to Faculty Council, Fall 1985-present

Second alternate, Committee on Review, Fall 1992

External Relations Committee on College and Community of Policy Council, Fall 1989

Marshal at Commencement, 1987- present

Presidential Search Committee for an Assistant Provost, Spring 1989

Provost's Advisory Committee on Information Technology Systems, 1988-1990

Teacher Education Curriculum Coordinating Committee, 1988-1991

Teacher Education Curriculum Coordinating Science/Education Subcommittee, 1988-1991

Ford Colloquium Faculty Mentor, 1989-1991

Faculty Mentor Program, 1987-1991

Eureka Faculty Mentor, 1988-1992

College Wide Committee on Telecommunications, 1987-1990

Library Ad-Hoc Committee on Software Circulation, 1987-1990

Provost's Ad-Hoc Committee to Implement the College-wide Learning Center, 1987

Participating Faculty MFA Program in Performing Arts Management, 1986-present

Brooklyn College Women's Program Futures Unlimited, Faculty Speaker, March 27, 1987

Brooklyn College Open House, November 23, 1986; March 22, 1987; April 26, 1987; November 15, 1987; April 24, 1988; November 13, 1988; April 16, 1989, Fall 1990, Fall 1991, November 14,1993, Fall 1997, Spring 1998, Fall 1999

Faculty Council Committee for Master Planning, Educational Policy and Budget, Spring 1986-Summer 1989

Career Workshop, "Business, Accounting, and Computers", Parent's Day, March 16, 1986

Search Committee for Director of Academic Computing, Fall 1985

Work Group on "Academic Support Resources", Spring 1985-present

Presentation of "Why Brooklyn College is Special" during the plenary session of Parent's Day, October 14, 1984

Presidential Committee on Emergency Medical Care, Spring 1982-present

Co-Director Adult Education Program - Microcomputers and Word Processing, Summer 1982

Conducted survey of computer terminal usage by all C.I.S. students, Spring 1982

Core Curriculum - Core Studies 5 Initiation Committee

Department Committees

CIS Appointments Committee Fall 1999-present

C.I.S. Undergraduate Curriculum Committee, Fall 1981-Spring 1991 Chairman, Fall 1983-1988, Fall 1990-Spring 1991, Fall 1995-1997, Fall 2001-2003

Department Master's Thesis Committee, Spring 1989-1995

Computer Center ITS/Library - C.I.S. Department Liaison Committee, Spring 1983-present

C.I.S. Department Ethics Committee, Spring 1983-present

Undergraduate Curriculum Subcommittee on course syllabi, Spring 1984-Spring 1989

Grade Appeal Committee, Fall 1982-present

C.I.S. Committee to Prepare "Advice to Undergraduates" Brochure, 1987-present

Undergraduate Curriculum Subcommittee on the Transition to Pascal, Spring 1985-1987
Undergraduate Curriculum Subcommittee for the coordination of C.I.S. 14 and 21, Spring 1985
Graduate Curriculum Subcommittee on the design of a M.A. - T.E.P. degree, Spring 1984
Committee for the Evaluation of Education 68 - C.I.S. 5.1, "Microcomputers in Education", Spring 1984 - Fall 1984
Committee to establish departmental policy on overtallies, Spring 1983
Committee for the Evaluation of Education 704.23X - "Calculators and Computers in School Mathematics", June 1982
Undergraduate Curriculum Subcommittee on C.I.S. 14, 21 and 22
C.I.S. - Mathematics Core Studies 5 Development Committee
C.I.S. 1.1 Steering Committee
Health Science - C.I.S. Joint Program Development Committee

### Student Activities

Faculty Advisor, Upsilon Pi Epsilon Computer Science Honor Society, Spring 1985-present
Faculty Advisor, Brooklyn College Emergency Medical Squad, Spring 1982 - present
Reviewer of student papers for the Brooklyn College chapter of the National Black Science Students Organization (NBSSO)

### Service to Graduate Center

Chairman, Computer Science Ph.D. Committee on Information Science, 1987-1990

Faculty Advisor, CUNY Baccalaureate Program, 1985-present

Ph.D. Dissertation Committee Physics Department (2 students), 1985-1990

### Service Off-Campus

### Professional Activities and Memberships

Association of Orthodox Jewish Scientists, Board of Governors and member of the Executive Committee, 1983 1988, Vice President, 1986-1987, Vice-Chairman Board of Governors 1987-1988

### Community Service

Board of Directors Center for Allied Health Education, 2017-present

Board of Directors REMSCO, 2014- present, secretary 2016-

Member of the Regional Emergency Medical Services Council of New York City (REMSCO), 1996-present
- Chair, 2012-2017
- Parliamentarian and member of the Executive Committee of REMSCO, 2010-
- Chair, Ambulance Committee, 2009-2012

- Chair, Subcommittee on Procedures for Pronouncement of Death Guidelines, 2006 – 2008
- QI/QA Committee REMSCO 2007-present
- Disaster Subcommittee of REMSCO Ambulance Committee 2006-
- Ambulance Security TAG
- Uniform Badge TAG of REMSCO
- Chair, Ambulance Driving Safety TAG, 1999
- Member of the Regional Emergency Medical Advisory Committee (REMAC), 2010-present
- Medical Standards (ALS), 1997-present
- REMAC Senior Paramedic Examiner
- REMAC Protocol Committee
- Examination Certification & Appeals Committee, 2005-present
- Invited to NYS Assembly Roundtable on EMS Recertification - 11/03/00
- ALS Staffing Advisory Group of ALS Committee – 2000-2001; 2005-2007
- Chair, ALS-PAD Interface TAG, 1999
- Amiodarone TAG, 1999
- Rapid Sequence Intubation TAG, 1999

Appointed by the Commissioner of the Department of Health of NY to the Emergency Medical Services Council of New York State (SEMSCO), 2010-present

- Systems Committee, Chair, 2016-present
- Member, Medical Standards Committee

Paramedic and ALS Coordinator, East Midwood Volunteer Ambulance Squad, 2009-present

Appointed by Sheldon Silver, Speaker of the Assembly of the State of New York, to the Statewide Wireless Network Advisory Committee, May 31, 2005 – 2010

Member of the visiting team of the New Jersey Council for History Education, 2005 - present

Advisory Board New York Methodist Hospital Paramedic Program - June 2002-2008

Member of the Sullivan County Department of Health Emergency Planning Committee, 2005 – 2007

Member of the Basic Life Support (BLS) Committee of the Regional Emergency Medical Advisory Committee of New York City (REMAC), 1997-2002

Sullivan County Legislative Committee to Establish Better Relations with Summer Residents, June 2001-2006

Coordinator, Catskills Hatzalah Volunteer Ambulance Corps, 1994-2010

Paramedic, Hatzalah Volunteer Ambulance Corps, 1986-2008

Member of Training Subcommittee of the Regional Emergency Medical Services Council of New York City, 1995-present

Member of Advanced Life Support Protocol Committee, Hudson Valley Regional Emergency
Medical Services Council, 1992-1996

Paramedic Course Director, The New York Methodist Hospital Advanced Life Support Program,
1995-2008

Course Administrator, HVAC Advanced Life Support Program, 1995-present

Member of Advanced Life Support Protocol Committee, Hatzalah Volunteer Ambulance, 1990-2008

Career Awareness Exploring Division, Boy Scouts of America, 1989

Midwood High School, Science Research Project Student Mentor, 1989-1991

Technical Committee MICRO-PLEY (Micro Program for Learning and Education in Yeshivos)
Agudath Israel, May 1982-1985

Lectured to various community groups and PTA's on the use of computers in education

Member Board of Directors, Yeshiva Ner Moshe, Jerusalem, 1984-present

Member of the Accreditation Commission, Association of Advanced Rabbinical and Talmudic
Schools (AARTS), 2014-present

Member of the visiting team of the Accreditation Board of the Association of Advanced
Rabbinical and Talmudic Schools, 1988- present