

**Contact  
Information**

Department of Mathematics & Physics    Voice: +1 (919) 530-5111  
 North Carolina Central University    [melikyan@nccu.edu](mailto:melikyan@nccu.edu)  
 1801 Fayetteville Street    <http://www.cs.nccu.edu/~melikyan>  
 Durham, NC 27707, USA

**Research  
Interest**

**Modular Lie Theory:** Structural Characterization of Maximal Subalgebras of Simple Lie (Super)Algebras, Classification of Simple Lie (Super)Algebras in Small Characteristics, Melikyan (Super)Algebras, Representation Theory.

**Computer Science:** Cryptography, Key Distribution, Threshold Cryptography, Computer and Data Security.

**Computational Mathematics:** Numerical Analysis, Approximation Theory, and Quantum dot/ring calculations.

**Employment**

**Professor**    Sep 2012 - Present  
 Department of Mathematics and Physics  
 North Carolina Central University, Durham, NC, USA

**Professor**    July 2006 - Aug 2012  
 Department of Mathematics and Computer Science  
 North Carolina Central University, Durham, NC, USA

**Associate Professor**    Aug 1999 - June 2005  
 Department of Mathematics and Computer Science  
 North Carolina Central University, Durham, NC, USA

**Lecturer**    Jan 1999 - June 1999  
 Department of Mathematics, Statistics & Computer Science  
 Marquette University, Milwaukee, WI, USA

**Lecturer**    Sep 1998 - June 1999  
 Department of Mathematics  
 University of Wisconsin-Milwaukee, Milwaukee, WI, USA

**Instructor**    Sep 1995 - June 1997  
 Department of Mathematics  
 University of Wisconsin-Madison, Madison, WI, USA

**Associate Professor**    Sep 1985 - Jan 1995  
 Department of Mathematics  
 Vanadzor State Pedagogical University, Vanadzor, Armenia

**Assistant Professor**    Sep 1975 - Jan 1977  
 Department of Mathematics  
 Vanadzor State Pedagogical University, Vanadzor, Armenia

- Education**
- Ph.D. Mathematics** Feb. 1985  
 V. Steklov Institute of Mathematics, Moscow, USSA  
 Dissertation: *Maximal Subalgebras in the Simple Lie p-algebras of Cartan Type*.  
 Advisor: Professor Alexei I. Kostrikin.
- Master of Science in Computer Science** Jan 1998 - June 1999  
 Department of Computer Sciences  
 University of Wisconsin-Milwaukee, Milwaukee, WI, USA
- Master of Science in Mathematics (with Honors)** Sep 1971 - July 1975  
 Armenian State Pedagogical Institute, Yerevan, Armenia

- Publications**
1. Dvoyan KG, Tshntshapanyan AA, **Melikyan HM** and Vlahovic B, Electronic States and Optical Transitions in an Asymmetric Quantum Dot Molecule. *Journal of Lasers, Optics & Photonics* 4:152, 2017.
  2. Wei Bai, Wende Liu, Xuan Liu, **Hayk Melikyan**, Maximal Subalgebras for Lie Superalgebras of Cartan Type. *Journal of Algebra and its Applications*, Vol. 14, No. 02, (2015), 1550013(38 pages)
  3. Rasheed Hussain, Donghyun Kim, Alade O. Tokuta, **Hayk M. Melikyan**, and Heekuck Oh, Covert Communication based Privacy Preservation in Mobile Vehicular Networks, *Proceedings of IEEE Military Communications Conference (MILCOM 2015)*, Tampa, FL, Oct. 26-28, 2015.
  4. **Hayk Melikyan**, Pasha Zusmanovich, Melikyan algebra is a deformation of a Poisson algebra. *The Journal of Physics: Conference Series* 532 (2014), 012019
  5. Wei Bai, Wnde Lui, **Hayk Melikyan**, Subalgebras of Lie Superalgebras of Cartan Type over Fields of Characteristic Zero. *Journal of Algebra* 404 (2014) 176-199.
  6. Junggab Son, Donghyun Kim, Sejin Lee, Heekuck Oh, Alade O. Tokuta, and **Hayk M. Melikyan**, On Trade Off Between Service Granularity and User Privacy in Smart Meter Operation, *Proceedings of The IEEE 10th International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2014)*, Dec. 19-21, 2014, Maui, Hawaii. (DOI: 10.1109/MSN.2014.46)
  7. I. Filikhin, V. M. Suslov, M. Wu, M. Dukic, **H. Melikyan** and B. Vlahovic, Electron energy and geometry parameters of InGaAs/GaAs quantum rings: an interpretation of C-V data. *MRS Proceedings*. 1411, mrsf11-1411-ee09-13 doi:10.1557/opl.2012.732
  8. I. Filikhin, V. Suslov, **H. Melikyan**, B. Vlahovic, The InGaAs/GaAs Quantum Dots under Effective and Ab Initio Treatments: Comparison and Results, *NSTI-NanoTech Conf. Preceding*, Vo 1, 578-581, 2009
  9. I. Filikhin, V. Suslov, M. Wu, **H. Melikyan**, B. Vlahovic. Modeling of the InGaAs/GaAs quantum dots with the non parabolic approximation and effective potential. *Rusnanotech: Nanotechnology International Forum 08*, Vo 1, 25-26pp, Moscow 2008.

10. B. Vlahovic, D. Markoff, I. Bondarev, I. Filikhin, **H. Melikyan**, G. Vlahovic, and M. Wu, A Integration of nanoscale science and technology research into undergraduate curriculum at Minority Universities: **book chapter** in edited collection Nanoscale Science and Engineering Education Issues, Trends and Future Directions, *American Scientific Publishers, USA, 2007.*
11. I. Filikhin, E. Deyneka, **H. Melikyan**, B. Vlahovic, Electron States of Semiconductor Quantum Ring with Geometry and Size Variations: *Molecular Simulation*, vol 31, 11(2005), 779-785.
12. **H. Melikyan**, Maximal Subalgebras of Modular Simple Lie algebras: *Journal of Algebra* 284 (2005) 824-856.
13. I. Filikhin, E. Deyneka, **H. Melikyan**, B. Vlahovic. Size Related Contribution to Electron Energy of the Quantum Ring: *Proceedings of NSTI Nanotechnology Conference and Trade Show Nanotech 2005*, May 8-12, 2005 Anaheim, California, Vol. 3 (2005)736 - 739.
14. I. Filikhin, E. Deyneka, **H. Melikyan**, B. Vlahovic. Electron Energy States of InAs/GaAs Quantum Ring Array: *Proceedings of NSTI Nanotechnology Conference and Trade Show Nanotech 2005*, May 8-12, 2005 Anaheim, California, Vol. 3 (2005) 696-699.
15. **H. Melikyan**, On the Maximal Subalgebras of Simple Infinite Lie Algebras of Cartan, *XVIII All-Union Algebraic Conf.*, Kishinev 1986, Part 2, 24-25pp.
16. **H. Melikyan**, The Maximal Homogeneous Subalgebras of Simple Lie Algebras of Cartan Type, *VINITI*, No.3653-84, 1-46pp. 1984.
17. **H. Melikyan**, Simple Irreducible 2-graded Lie Algebras with Component  $L_0 = W_1 \oplus K$ . *VINITI*, No. 1688-82, 1-20pp, 1982.
18. **H. Melikyan**, On a Maximal Subalgebras of the Simple Lie Algebras of Cartan Type, *Proceedings of XVI All-Union Algebraic Conference*, Leningrad, 1981, Part I, 107pp.
19. **H. Melikyan**, Simple Irreducible 2-graded Lie Algebras with Component  $L_0 = W_1 \oplus K$ . *Proceedings of IV All-Union Symp. of Ring Theory, Algebras and Modules*, Kishinev, 1980, 74-75pp.
20. **H. Melikyan**, Simple Lie Algebras of Characteristic 5. *Uspekhi Math. Nauk*, 35(1980), 1(211), 203-204pp. English Transl. in *Russian Math. Surveys* 35(1980).
21. **H. Melikyan**, On a Simple Lie Algebra. *Proceedings of XV All-Union Algebraic Conference.*, Novosibirsk, 1979, 72-73pp.

### Problem Solutions

- In collaboration with Mrs. C. Shafroth, Dr. C. Rupert and Dr. J. Shoaf (NCCU Problems Group) submitted solutions more than 15 problems to the journal of The American Mathematical Monthly (1999-2002).
22. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, Subspaces of the Vector Space of 2-by-2 Matrices, 10813 [2000, 567] *The American Mathematical Monthly*, 6(109) 751-752, 2002.

23. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, Additive Atoms, 10828 [2000, 753] *The American Mathematical Monthly*, 9(109) 856-857pp, 2002.
24. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, A Differential Equation with Many Solutions, 10747 [1999, 685] *The American Mathematical Monthly*, 7(179) 203-204 2000.
25. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, Invertible Matrices Modulo, 10767 [1999, 963] *The American Mathematical Monthly*, 8(108) 774p, 2001.
26. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, A High-powered Fibonacci Identity, 10774 [2000, 83] *The American Mathematical Monthly*, 2(109) 203-204, 2002.
27. **H. Melikyan**, C. Rupert, C. Shafroth, J. Shoaf, Triperfect Numbers, 10800, [2000, 368] *The American Mathematical Monthly*, 3 (109) 304-305, 2002.

## Grants

### *Active*

- **Investigator**, NCCU Computational Center for Fundamental and Applied Science and Education (NCCU CCFASE), NSF CREST Phase II Grant HRD-1345219, PI: B. Vlahovic, \$5,000,000, 2014–2019.

### *Pending*

- **Principle Investigator**, Excellence in Research: Cominuscule quantum Schubert cells and FRT bialgebras, NSF, \$379302.00, 2019–2022.

### *Expired*

- **Member**, Targeted Infusion Project: Development of a Computational and Engineering Mathematics Program Concentration at NCCU, NSF HRD 1533653, PI: Alade Tokuta, \$398,207, 2015–2017.
- **Investigator**, NCCU National Aeronautics and Space Administration - Center for Aerospace Research and Education (NASA-CADRE), NASA-CADRE Phase I Grant, PI: B. Vlahovic, Award Amount \$5,000,000, 2009–2014.
- **Investigator**, NCCU Computational Center for Fundamental and Applied Science and Education (NCCU CCFASE), NSF CREST Phase I Grant HRD-0833184, PI: B. Vlahovic, Award Amount \$5,000,000, 2008–2013.

## Awards

- **Outstanding Faculty Teaching Award**, Collage of Sciences and Technology, NCCU, 2007
- **Outstanding Research Award**, Collage of Arts and Sciences, NCCU, 2006
- **Honor Diploma** for academic achievement, Armenian State Pedagogical Institute, Armenia, 1975.
- **Lenin stipend** for academic achievement, Armenian State Pedagogical Institute, Armenia, 1973, 1974, 1975;

**Meetings & Presentations**

- Emil Artin International Conference, May 27-June 2, 2018, Yerevan Armenia
- International Conference Dedicated to the Memory of Sergey Mergelyan, May 20-25, 2018, Yerevan, Armenia.
- International Conference Groups and Rings Theory and Applications, July 11-15, 2016, Sofia, Bulgaria
- Southeastern Lie Theory Workshop on Algebraic and Combinatorial Representation Theory, NCSU, Oct. 9-11, 2015.
- Lie and Jordan Algebras, Their Representations and Applications V: State University of Par, Belem, Brazil, July 8-13, 2012
- Southeastern Lie Theory Workshop on Categorification of Quantum Groups and Representation Theory, NCSU, Apr. 21-22, 2012
- Nonassociative Algebra in Action: Past, Present and Future Perspectives. University Virginia, Sep 1-4, 2011
- Southern Lie Theory Workshop: Finite and Algebraic Groups. University Virginia, June 1-4, 2011
- Deformation Theory of Algebras and Modules, NCSU, May 16-20, 2011
- Algebra Seminar at Memorial University of Newfoundland, Canada, Aug. 10, 2010
- Southeastern Lie Theory Workshop on Combinatorial Lie Theory and Applications, NCSU. Oct. 9-11, 2009.
- AMS 1048 Sectional Meeting, NCSU, Raleigh, Apr. 4-5, 2009
- University of California Lie Theory Workshop in honor Prof. G. Benkart. Feb. 16-18, San Diego, 2008
- Mid-Atlantic Algebra Conference at NCCU, Durham, Apr. 21-22, 2007.
- Combinatorial and Geometric Group Theory: A conference in honor of Professor A. Yu. Olshanskii, Vanderbilt University, May 5-10, 2006
- Mid-Atlantic Algebra Conference at James Madison University, Harrisonburg, Apr. 29-30, 2006.
- Noncommutative Algebra: A conference in honor of Professor Lance W. Small, UCSD, San Diego Feb. 18-20, 2006.
- Lie Algebras, Vertex Operator Algebras and Their Representations: Conference in honor of R. Wilson and J. Lepowsky: NCSU, Raleigh, May 17-21, 2005.
- AMS/MAA Joint Mathematics Meetings, Atlanta, Jan., 2005.
- Mid-Atlantic Algebra Conference at George Mason University, Fairfax, Nov. 13-14, 2004.
- Duke University Symposium on Computational Protein Biology, Duke University, Durham, 2004.

- The Third Duke Mathematical Journal Conference, Duke University, Durham, Apr. 23-24, 2004.
- Algebra Seminar at NCSU, Raleigh, Mar. 3, 2004.
- Algebraic Geometry Seminar at the Department of Mathematics Duke University, Feb.18, 2004.
- Department of Mathematics at UNC, Chapel Hill, Nov.7, 2003.
- Conference in Honor of Walter Feit, Yale University, Oct., 2003
- 991 AMS Meeting, UNC, Chapel Hill, Oct. 24-25, 2003.
- 980 AMS Meeting, UW-Madison, Oct. 12-13, 2002.
- Mid-Atlantic Algebra Conference at NCSU, Raleigh, Nov. 9-10, 2002.
- Mid-Atlantics Algebra Conference, Wake Forest University, 2001.
- Colloquia talk at NCSU, Raleigh, Feb. 14, 2001.
- Lie Theory and Related Topics Conference at the University of Wisconsin, Sep. 8-10, 2000.
- Colloquia talk at the Marquette University, Milwaukee, Sep. 7, 2000.
- Colloquia talk at the Marquette University, Milwaukee, Apr. 8, 1999.
- Colloquia talk at the University of Wisconsin - Milwaukee, Jan. 29, 1999.
- AMS Meeting, Manhattan, Kansas, Mar. 28, 1998.
- AMS/MAA Joint Mathematics Meetings, Baltimore, Jan. 1998
- Lie Theory Seminar at the University of Wisconsin-Madison, May 5, 1995.
- All-Union Algebraic Conf. Kishinev, 1985.
- Algebra seminar at Moscow State University, Moscow 1984.
- All-Union Symp. of Ring Theory, Algebras and Modules, Minsk, 1984.
- Algebra seminar at Moscow State University, Moscow, 1982.
- All-Union Algebraic Conf. Leningrad, 1981.
- All-Union Symp. of Ring Theory, Algebras and Modules, Kishinev, 1980.
- Algebra seminar at Moscow State University, Moscow, 1980.
- All-Union Algebraic Conf., Novosibirsk, 1979.

### Professional Memberships

- American Mathematical Society
- Armenian Mathematical Union,
- The Mathematical Association of America

**Teaching  
Experience*****Undergraduate Mathematics Courses Taught at NCCU***

- 1 **MATH 1000**, Introductory College Algebra
- 2 **MATH 1100**, Collage Algebra and Trigonometry I
- 3 **MATH 1200**, Collage Algebra and Trigonometry II
- 4 **MATH 1210**, Finite Mathematics
- 5 **MATH 1410**, Pre-Calculus Mathematics
- 6 **MATH 2000**, Calculus for Non-Science Majors
- 7 **MATH 2600**, Introduction to Abstract Mathematics
- 8 **MATH 3020**, Differential Equations
- 9 **MATH 3500**, Elementary Number Theory
- 10 **MATH 4410**, Linear Algebra I
- 11 **MATH 4410**, Linear Algebra II
- 12 **MATH 4430**, Abstract Algebra I
- 13 **MATH 4440**, Abstract Algebra II
- 14 **MATH 4810**, Selected Topics (Advanced Linear Algebra)
- 15 **MATH 4810**, Selected Topics (Lie Algebras)
- 16 **MATH 4920**, Senior Seminar in Mathematics

***Undergraduate Computer Science Courses Taught at NCCU***

- 17 **COMP 1070**, Introduction to Programming
- 18 **COMP 2200**, Logic for the Mathematical Sciences
- 19 **COMP 2300**, Discrete Mathematics
- 20 **COMP 3300**, Introduction to Database Systems
- 21 **COMP 4730**, Organization of Programming Languages
- 22 **COMP 4910**, Special Topics(Cryptography)
- 23 **COMP 4910**, Special Topics(WWW Programming)
- 24 **COMP 4910**, Special Topics(Analysis of Algorithms)
- 25 **COMP 4920**, Senior Seminar in Computer Science

***Graduate Mathematics Courses Taught at NCCU***

- 26 **MATG 5010**, Modern Algebra I
- 27 **MATG 5020**, Modern Algebra II
- 28 **MATG 5210**, Number Theory
- 29 **MATG 5810**, Special Topics (Lie Theory)
- 30 **MATG 5810**, Special Topics (Advanced Linear Algrbas)
- 31 **MATG 5900**, Thesis

**Service to*****University***

- 1 **Member**, Undergraduate Curriculum Committee (2006 - present )
- 2 **Senator**, Faculty Senate (2015 - 2018)
- 2 **Alternate Member**, Faculty Portfolio Review Committee (2011-2014)
- 3 **Senator**, Faculty Senate (2009-2012)
- 5 **Member**, Graduate Conceal, (2006-2012)
- 6 **Member**, Faculty Personnel Committee (2005-2009)
- 7 **Member**, Technology Training Program, NCCU (2001, 2003)
- 8 **Participant**, University Open House Program (2000-2005)
- 9 **Participant**, Review Core Curriculum Requirements, NCCU (2003)
- 10 **Faculty Mentor**, IMentorU Professional Development Program. NCCU, IBM, DPS (2002, 2003)
- 11 **Participant**, Campus Expansion Plan Forum, NCCU (03/2002)
- 12 **Participant**, Cluster, NCCU (04/2002)
- 13 **Participant**, Business Industry Cluster Meeting NCCU (10/2002)

***College***

- 14 **Chair**, Curriculum committee, College of Science & Technologies (2006-2012)
- 15 **Member**, Reappointment, Tenure and Promotion Committee, College of Science & Technologies (2006-2012)

***Department***

- 16 **Member**, Reappointment, Tenure and Promotion Committee, Department of Mathematics and Physics (2013-present)
- 17 **Member**, Faculty Search Committee, Department of Mathematics and Physics (2013-present).
- 18 **Coordinator**, Tutoring service (2010-present).
- 19 **Coordinator**, Mathematics and Computer Science Classes on Banner (2010-present).
- 20 **Member**, Curriculum Committee, Department of Mathematics and Computer Science (2000-present).
- 21 **Member**, Graduate Committee, Department of Mathematics and Computer Science (2000-present).
- 22 **Coordinator**, Colloquium and Seminar presentations (2000-present)
- 23 **Char**, Mathematics Faculty Search Committee (2014-2015)
- 24 **Chair**, Reappointment, Tenure and Promotion Committee, Department of Mathematics and Computer Science (2006-2013)
- 25 **Member**, Faculty Search Committee, Department of Mathematics and Com-



puter Science (2000-2013).

26 **Co-Char**, Faculty Search Committee 2001, 2003, 2005

### *Profession*

27 **Member**, Faculty Seminar: NCCU Problems Group, 1999-2002.

28 **Contributor**, Regional Science Bowl, 2000-

29 **Organizer**, Mid-Atlantic Algebra Conference, NCCU, Apr 21-22, 2007

30 **Reviewer**, International Research Fellowship Program, NSF, 2004-2006

31 **Reviewer**, Communications in Algebra

32 **Reviewer**, Journal of Algebra and its Applications

33 **Reviewer**, Journal of Algebra

34 **Reviewer**, Acta Mathematica Scientia

35 **Reviewer**, Discrete Mathematics, Algorithms and Applications

36 **Reviewer**, AMS

### Advising

#### *MS Thesis Advisor (at NCCU)*

1 Algebraic Properties of the Matrix Algebra, **S. Spire**, 2007.

2 Euclidean Domains that are not Principal Ideal Domains, **K. Ozmorel**, 2011.

3 Classification of Simple Lie Algebras, **A. Petrosyan**, 2012.

#### *External PhD Thesis Committee Member*

5 Group Gradings on Simple Lie algebras of Cartan and Melikyan Type, **J. McGrew**, 2010.

#### *MS Thesis Committee Member*

6 Raydiosity Illumination in Computer Generated Imagery, **V. Babchenko**, 2002.

7 Comparing Interior Method for Linear Programming, **A. Harisson**, 2003.

8 Applications of the Shifted Inverse Power Method, **H. Gevorgyan**, 2004.

9 Life Insurance Premiums: Applications of Statistics, **Y. Forkish**, 2004.

10 Using Survival Function to Construct Life Table, **K. Ragland**, 2004.

11 Using the Danilevsky Method, **O. Melnikova**, 2004

12 Using MCD and MVE Robust Covariance Matrices, **Z. Xiao**, 2004

13 The Numerical Solutions of The Finite Difference Method, **T. McKoy**, 2008.

14 A Finite Element Method for Elliptic PDEs, **T. Zatezalo**, 2010.

15 Minimum Cost Flow Problem, **C. Bochnovic**, 2012.

- 16 An Investigation with H-matrices, **B. Upadhaya**, 2014.
- 17 Alternate Approaches for Investigating H-matrices, **Z. Beckstrom**, 2015.
- 18 Small Frobenius Functionals on the Maximal Parabolic Subalgebras of  $SL(n)$ , **B. Noel**, 2018

*Senior Seminar Project Advised*

*Spring 2000*

- 17 Grading Program, **E. Williams, K. Mixon, C. Smith and L. Bradford**.
- 18 Xcalendar and Xclock, **J. Dash, E. Barnett, M. Branch**.
- 19 Secure E-Mail, **S. Harper, J. Walker, G. Ray, G. Graves**.
- 20 Data Warehousing, **T. Peterson**.

*Spring 2001*

- 21 MYDB (My Database), **K. Dunn**.
- 22 Test Your Knowledge, **J. Johnson**.
- 23 Grep Versus Database, **L. Dolberry**.
- 24 RAMIS and File Aid, **K. Perry**.
- 25 Viruses: An In Depth Look, **J. Graves**.
- 26 My SQL, **S. Boothman**.
- 27 Data Mining, **C. Gaines**.
- 28 Semistructured Data, **D. Owens**.
- 29 Database and GUI, **T. Williams**.

*Spring 2002 (IBM)*

- 30 Car Rental and Tracking System, **P. Price, A. Norman, K. Adams and J. Yang**.
- 31 Enrollment System **C. Baker, L. Hosein, D. Long, B. Love, L. Parker**.
- 32 Jacobson Airport Security, **D. Berahzer, R. McKenzie, S. Moore, S. Standiford**.
- 32 Sole Swing Order Tracking System, **J. Bullock, J. Ledbetter, L. Lyons**.
- 33 Acme Online Banking Company, **C. Mazarua, B. Udemadu, K. Williams**.
- 34 Acme Internet Book Store, **D. Smith, C. Forest, J. Wang, R. Abou-Chacra**.

*Spring 2003*

- 35 MiniBase, **A. Bhandari, R. Joy**.
- 36 Data Mining, The Process and Algorithms, **J. Newkirk**.
- 37 AMLogOnx, **A. Mayers**.
- 38 IFLIX (E-Commerce), **A. Bhattarai, R. Burbage**.
- 39 My Calendar, **C. Johnson**.

40 Applications of JavaScript with Linear Algebra, **T. Dupree, S. McKay.**

*Fall 2003*

41 ASP and LOSS Prevention, **S. Shockley.**

42 Database Security, **X. Zhang.** *Spring 2004*

43 Classact(Game), **K. Epps, R. Parks.**

44 Personal Checkbook Implementation, **J. Landy.**

45 The Cloth Simulation, **D. Sunda-Meya.**

*Spring 2005*

46 Car Simulation, **K. James.**

47 SaDantha Cable Company, **S. Lindley, D. Aluoch.**

48 Class and Teacher Evaluation Website, **H. Matereke.**

49 Speech Synthesizer, **J. Williams.**

*Fall 2005*

50 My Library, **Sh. Morgan.**

51 Khalimorandai Veterinarian Online Hospital, **J. Frazier.**

52 Cellular World, **S. Francis.**

53 JDBC, **M. Blackburn.**

54 Gaming System, **A. Adekanmbi.**

55 Applied Mathematics for Digital Signal Processing, **E. Richardson.**

*Spring 2006*

56 3D Graphics: Space Demo, **K. Mabie.**

57 Persistent Data Structures, **A. Ellis.**

58 Computing Markov Matrices for Families of DNA, **B. Russell, T. Hayes.**

59 Elements of Perl, **C. Sutton.**

60 Online Exam (Java), **M. Jones.**

61 Satellites and Computer Networks, **C. Dobson.**

62 Tetrad IV: Tools for causal modeling, **M. Bonjoko.**

63 Quadratic Equations, **Audrey Newman.**

64 Applications of Some Statistical Methods, **E. Craig.**