

# Vita

## Sen Zhang

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### ACADEMIC APPOINTMENTS

- **Associate Professor, Department of Mathematics, Computer Science and Statistics, State University of New York, College at Oneonta, Fall 2010 - Present**
- **Assistant Professor, Department of Mathematics, Computer Science and Statistics, State University of New York, College at Oneonta, Fall 2004 - 2010**

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### ACADEMIC DEGREES

- **Ph.D., Computer Science, New Jersey Institute of Technology, NJ** 2004
  - Dissertation title: *Pattern Discovery in Structural Databases with Applications to Bioinformatics*
  - Concentration: *Database, Data mining, Structural Data and Bioinformatics*
  - Advisor: *Dr. Jason Tsong-Li Wang*
- **M.S., Computer Science, South China University of Science & Technology, China** 1995
- **B.S., Computer Science, Tianjin University, China** 1992

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### RESEARCH INTERESTS

- Innovative Computer Science Education, Database Design, Data Mining, Combinatorial Pattern Discovery, Data Structures and Algorithms, and Information Retrieval.

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### PROFESSIONAL MEMBERSHIP

- Member, Association for Computing Machinery (ACM)
- Member, Institute for Electrical and Electronic Engineers (IEEE)
- Member, Computer Science Teachers Association(CSTA)

**PROFESSIONAL EXPERIENCE (Teaching & Research)**

- September 2004 - Present, Faculty, Department of Mathematics, Computer Science and Statistics, State University of New York, College at Oneonta.
  1. CSCI100 Introduction to Computing Technology (Computer Literacy)
  2. CSCI109 C Programming for Non-Majors
  3. CSCI116 Fundamentals of Programming (in C++)
  4. CSCI200 Practical Computer Science
  5. CSCI201 Computer Science Fundamentals
  6. CSCI203 Introduction to Data Structures
  7. CSCI213 Introduction to C# and Python
  8. CSCI216 Object Oriented Programming
  9. CSCI243 Introduction to Unix/Linux System
  10. CSCI242 Introduction to Database System Using Oracle
  11. CSCI299 Intermediate Algorithms - Independent Study
  12. CSCI299 Entrepreneurship in mobile App development - Independent Study
  13. CSCI311 Software Design and Development
  14. CSCI322 Combinatorial Computing, a revived course
  15. CSCI324 Artificial Intelligence
  16. CSCI342 Database System Design
  17. CSCI343 Modeling and Simulation
  18. CSCI394 Data Mining - Special Topics also a new course
  19. CSCI394 Data Compression and Processing - Special Topics also a new course
  20. CSCI394 Android Programming - Special Topics also a new course
  21. CSCI394 Mobile Application Programming - IOS, Android and Windows devices
  22. CSCI399 Advanced and Object Oriented Programming in C++, C# - Independent Study
- August 1999 - December 2003, Teaching Assistant, Computer Science, New Jersey Institute of Technology.
  1. Data Structures and Algorithms, Spring 2002-Fall 2003
  2. Advanced Java, Summer, 2001
  3. Programming Languages, Spring and Fall 2001
  4. Operating Systems, Summer and Fall 2000
  5. Artificial Intelligence, Fall 1999 and Spring 2000
  6. Data Mining, Fall 2003

- January 2004 - August 2004 and Summers of 2000-2003, Research Assistant, Computer Science, New Jersey Institute of Technology.
  1. Design and implement various tree mining and tree comparison algorithms with applications to bioinformatics and scientific data.
  2. Implement the web interface for the GraphGrep, a graph-search algorithm.
  3. Design and implement the XML Query by Example search engine.

### **PROFESSIONAL EXPERIENCE (Industry)**

- May 1995 - August 1999, Senior Programmer, Programmer, Information Technology Division, China Merchants Bank, ShenZhen, Guangdong, China.
  - The duties performed: Work in the Information Technology Department on different positions including programmer, senior programmer and project manager. Work on the systems of both server-end and front-end database applications for banking business including home mortgage, bank-security auto-transfer and foreign currency exchange systems.
  - General Accounting System. Front end: Powerbuilder, windows client, Back end: Sybase, Sun solaris
  - Remote Payment Collecting Agent System, Payment & Interests Calculation Module. Front end: Powerbuilder, windows client, Back end: Sybase, Sun solaris
  - Foreign Currency Report System. Front End: Powerbuilder, windows client, Back end: Sybase, Sun solaris
  - Web-based Query and Decision System, Front End: VC/VB, ASP, Back end: MSSQL7.0 + Data warehouse, NT4.0 server
  - Bank-Customer Account Remote Transfer System, Front End: VC++, multi-threading, socket, COM design, Back end: SQL7.0, NT4.0 server
  - VOIP Recorder Application. Techniques: TCP/IP, VOIP, g711, RTP, RCTP, tcpdump, Ethereal, multithreading, OS: Windows 2000
- January 1993 - May 1995, Programmer, R&D Division HongKong-ShenZhen Media Tech Inc., ShenZhen, Guangdong, China.
  - The duties performed: Develop dynamic link libraries and OCX components in VC++. Research feasible prototypes for multimedia system for integrating multimedia information to a ISO9000 self-tutoring CD-ROM system.

## **AWARDS, HONORS and GRANTS**

- SUNY Innovative Instructional Technology Grant (IITG) (2014-2015), Semi-standardizing Introduction to Computing courses within SUNY system.
- SUNY Oneonta Teaching and Learning Technology Grant (2013-2014), Design a self-paced Online Introduction to Computer Science.
- SUNY Innovative Instructional Technology Grant (IITG) (2012-2013), Auto-generation of Teaching Materials of Data Structures and Algorithms.
- StAR grant (2012-2013), with J. Ryder, Acquiring new computers for the new computer labs for the new Fizzle Hall.
- StAR grant (2012-2013), with R. Wang, Acquiring mobile devices.
- Apple IOS developer University Program for students, (2013)
- Tsinghua Global Scholar (Spring 2012), Computer Science Department, Tsinghua University, Beijing, China
- Visiting Scholar (Winter 2011), Computer Science Department, Sun Yet-Sen University, GuangZhou, China
- The College Community of Scholars, (Fall 2011)
- Faculty Development Grant (2009-2010)
- Faculty Development Grant (2008-2009)
- UUP Professional Development Grant (2008-2009)
- Faculty Development Grant (2007-2008)
- Faculty Development Grant (2006-2007)
- TLTC Fellowship for new course development (2007)
- Faculty Research Grant, (2007)
- Faculty Development Grant (2005-2006)
- Walter B. Ford Faculty and Staff Grant (2006)
- UUP Professional Development Grant (2006)
- Faculty Research Grant (2004-2005)
- Student Achievement Award, 2004, New Jersey Institute of Technology
- Research Assistantship Award, Spring 2004 and Summers of 2000 to 2004, NJIT
- Teaching Assistantship Award, 1999-2003, NJIT

### **JOURNAL PUBLICATIONS (Refereed)**

1. S. Zhang, Z. H. Du and J. T.L. Wang, *New Techniques for Mining Frequent Patterns in Unordered Trees*, IEEE Transactions on Cybernetics Part B, accepted for publication Aug. 14, 2014 [Epub ahead of print].
2. S. Zhang, *An auto-Generation Approach to Create Visualization Teaching Materials for Data Structures and Algorithms in MS-PPT Format*, the International Journal of Information and Education Technology, Aug. 2014, pp 714-718.
3. G. Nong, W. H. Chan, S. Zhang and X. F. Guan, *Suffix Array Construction in External Memory Using D-Critical Substrings*, ACM Transactions on Information Systems, 32(1), Jan. 2014.
4. G. Nong, S. Zhang and W. Chan, *Inverse Sorted Transform is Linear Time Computable*, ACM Transaction on Algorithms, 7(2): 27 (2011)
5. G. Nong, S. Zhang and W. Chan, *Two Efficient Algorithms for Linear Time Suffix Array Construction*, IEEE Transactions on Computers, 60(10): 1471-1484 (2011)
6. S. Zhang and J. T. L. Wang, *Discovering Frequent Agreement Subtrees from Phylogenetic Data*, IEEE Transactions on Knowledge and Data Engineering, 20(1):68-82, January, 2008.
7. G. Nong and S. Zhang, *Efficient Algorithms for the Inverse Sort Transform*, IEEE Transactions on Computers, 56(11): 1564-1574, November, 2007.
8. S. Zhang, J. T. L. Wang and K. G. Herbert, *XML Query by Example*, the International Journal of Computational Intelligence and Applications 2(3):329-338, 2002, World Scientific Publishing.

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### **BOOK CHAPTER PUBLICATIONS (Refereed)**

1. S. Zhang and J. T. L. Wang, *Knowledge Discovery from Evolutionary Trees*, in *Advanced Methods for Knowledge Discovery from Complex Data* (Editors Sanghamitra Bandyopadhyay, Ujjwal Maulik, Lawrence Holder and Diane Cook), Springer Verlag, London, 2005.

### **WORK in PROGRESS**

1. with W. Wang, P. Lin, N. Yuan, and D. Liu *A comparative analysis of intra-city human mobility by taxi*, under review, submitted to Physica A (a Journal) in Aug. 2014
2. with Z. Du and J. T. L. Wang, *Mining Ordered Trees*

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**CONFERENCE PROCEEDINGS PUBLICATIONS (Refereed)**

1. Q. Yang, Z. Du, and S. Zhang, *Optimized GPU Sorting Algorithms on Special Input Distributions*. THE ELEVENTH INTERNATIONAL SYMPOSIUM ON DISTRIBUTED COMPUTING AND APPLICATIONS TO BUSINESS, ENGINEERING AND SCIENCE (DCABES 2013), pp57-61, Guilin, China. 2012 Oct.19-22.
2. S. Zhang and J. Ryder, *Automatically Generating Algorithm Presentations*, SUNY CIT, May 20-24, 2013, SUNY IT, New York.
3. J. Ryder and S. Zhang, *Preliminary Results of Ranking Political Figures Using Naive Bayes* , 6th International Conference on Data Mining, July 12-14, 2010, Las Vegas, U.S.A.
4. G. Nong, S. Zhang, and W. H. Chan, *Linear Suffix Array Construction by Almost Pure Induced-Sorting* , IEEE International Data Compression Conference, March 16-18, 2009, Snowbird, UT, USA.
5. S. Zhang, G. Chang, *A Framework to Generate Arc-Annotated Sequence Data for Evaluating RNA Analysis Algorithms*, World Congress on Engineering and Computer Science (WCECS2008), Oct. 22-24, 2008, San Francisco, CA, USA. (Acceptance rate: 50%)
6. G. Nong, S. Zhang and W. H. Chan, *Computing Inverse ST In Linear Complexity*, the 19th Annual Symposium on Combinatorial Pattern Matching June 18-20, 2008, Pisa, Italy. (Acceptance rate: 25/75)
7. S. Zhang and G. Nong, *Fast and Space Efficient Linear Suffix Array Construction*, IEEE International Data Compression Conference, March 25-27, 2008, Snowbird, UT, USA.
8. R. Barton (student author), S. Zhang and K. G. Herbert, *Algorithms and Software for Calculating and Visualizing the Cardinality of the GDB*, the 4th International Conference on Data mining DMIN08(Acceptance rate:50%), July 14-17, 2008, Las Vegas, NV. USA.
9. G. Nong and S. Zhang, *Optimal Lightweight Construction of Suffix Arrays for Constant Alphabets*, Workshop on Algorithms And Data Structures (WADS), August 15-17, 2007: 613-624 Halifax, Nova Scotia, CA, USA. (Acceptance rate: 26%)
10. G. Nong and S. Zhang, *An Efficient Algorithm to Inverse the Schindler Transform*, IEEE International Data Compression Conference, March 27-29, 2007, Snowbird, UT, USA.
11. G. Nong, S. Zhang and X. Lin, *An Efficient Protocol for Optical WDM Networks with Simulation Evaluation*, IEEE Conference on Local Computer Networks (LCN), Nov. 14-16, 2006, Tampa, FL, USA. (Acceptance rate: 30%)
12. S. Zhang, K. G. Herbet, J. T. L. Wang, W. H. Piel, D. R. B. Stockwell, *Phylominer: a tool for evolutionary data analysis*, 18th International Conference on Scientific and Statistical Database Management (SSDBM 2006), July 03-05, Vienna University, Vienna, Austria.
13. S. Zhang and J. T. L. Wang, *Mining Frequent Agreement Subtree in Phylogenetic Database*, SIAM International Conference of Data Mining (SDM 2006), April 20-22, Bethesda, MD, USA. (Acceptance rate: 16.4%, 40/244)

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14. G. Nong and S. Zhang, *Unifying the Burrows-Wheeler and The Schindler Transforms*, IEEE International Data Compression Conference, March 28-30, 2006, Snowbird, UT, USA.
  15. D. Shasha, J. T. L. Wang and S. Zhang, *Unordered Tree Mining with Applications to Phylogeny*, IEEE International Conference of Data Engineering (ICDE 2004), Pages 766-778. (Acceptance rate: 14.2%, 63/441)
  16. S. Zhang, L. Liao, J. F. Tomb, J. T. L. Wang, *Clustering Enzymes in Metabolic Pathways: Some Preliminary Results*, In the Proceedings of the the 2002 ACM BIODDD Workshop on Data Mining in Bioinformatics, Edmonton, Alberta, Canada, July, 2002. (Acceptance rate: 11/38)

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#### **SELECTED PRESENTATIONS and POSTERS on Regional, National or International Conferences**

1. *Sharing the Experience of Teaching Data Structures and Algorithms Using Automatically Generated Materials* , Consortium for Computing Sciences in Colleges - Eastern Region, USA (Lightening Talk presentation), Nov 2, 2013, College of New Jersey, NY, S. Zhang
2. *Pedagogical practices and benefits of using auto-generation approach to facilitate teaching data structures and algorithms*, Journal of Computing Sciences in Colleges, Volume 28 Issue 6, June 2013, Pages 203-204, Consortium for Computing Sciences in Colleges , USA (Poster presentation CCSCNE April 12, 2013, Albany, NY) S. Zhang and J. Ryder,
3. *Automating the Production of Algorithm Teaching Materials in PowerPoint Format*, Consortium for Computing Science in Colleges Eastern Region, Oct. 30, 2009, Villanova, PA, S. Zhang and J. Ryder)
4. *Building a Generator-based Cyber Platform for Automating Production of PPT-based Algorithm Visualization Teaching Materials*, SIGCSE 2011: Reaching Out, The 42nd ACM Technical Symposium on Computer Science Education, S. Zhang and J. Ryder, Mar. 09-12, 2011
5. *Fast and Space Efficient Linear Suffix Array Construction*, IEEE Data Compression Conference, March 26, 2008, Snowbird, UT.
6. *Optimal Lightweight Construction of Suffix Arrays for Constant Alphabets*, WADS Aug. 17, 2007, Halifax, Nova Scotia, CA.
7. *An Efficient MAC Protocol for Optical WDM Networks with Simulation Evaluation*, IEEE Conference on Local Computer Networks(LCN 2006), Nov. 17, 2006, Tampa, FL, USA.
8. *Mining Frequent Agreement Subtrees in Phylogenetic Databases*, SIAM International Conference of Data Mining (SDM 2006), April 20, 2006, Bethesda, MD, USA.
9. *A Light-weighted Visualization Toolkit for Facilitating students' Learning of Sorting Algorithms*, 2006 Merlot International Conference, Aug. 9, 2006, Ottawa, ON, CA.
10. *Frequent Pattern Discovery with Applications to Phylogenetic Trees*, April 2, 2004, ICDE, Boston, MA. USA.

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**SUCO Celebration of Teaching and Faculty Research Show Posters**

1. *Mining Embedded Subtrees from Rooted Ordered Labeled Trees*, Life of Mind, College at Oneonta, 2013.
2. *Using and Creating Automatically Generated PowerPoint Slides to Facilitate Teaching of Data Structures and Algorithms*, co-presented with J. Ryder, Life of Mind, College at Oneonta, 2011
3. *Ranking Similarity between Political Speeches using Naive Bayes Text Classification*, co-presented with J. Ryder, Life of Mind (previously Faculty Research Show), Feb. 12, 2010, SUNY College at Oneonta, NY
4. *Learning by Using: On Integrating Learning of Multiple Programming Languages into Higher-level Computer Science Courses*, 5th Annual Celebration of Teaching Nov. 6, 2008 , SUNY, College at Oneonta, NY
5. *Exploring Visual Toolkits in Computer Science*, 2nd Annual Celebration of Teaching Nov. 18, 2005 , SUNY College at Oneonta, NY
6. *A Linear Time Algorithm for the Inverse Sorting Transform Problem*, Faculty Research Show, February 12, 2009, SUNY College at Oneonta, NY
7. *Critical Positions based Suffix Array Construction*, Faculty Research Show, March 21, 2008, SUNY College at Oneonta, NY
8. *An Efficient MAC Protocol For Optical WDM Networks with Simulation Evaluation*, Faculty Research Show, March 21, 2007, SUNY College at Oneonta, NY
9. *Unifying the Burrows-Wheeler and the Schindler Transforms*, Faculty Research Show, March 21, 2006, SUNY College at Oneonta, NY
10. *Mining Frequent Agreement Subtrees from Leaf-labeled Unordered Trees*, Faculty Research Show, March 8, 2005, SUNY, College at Oneonta, NY

**Student Research Projects and Affiliations with Regional and SUCO Student Research Show**

1. Marvin Rodriguez, Anthony Nichols (student researchers) and S. Zhang (faculty sponsor), Build a LittleFe Cluster, Student Research Show, April, 2014.
2. S. C. Chiu (student researcher) and S. Zhang (faculty sponsor), Raspberry Pi-enabled Quadcopter , Student Research Show, April, 2014.
3. S. C. Chiu (student researcher) and S. Zhang (faculty sponsor), Kinect-Enabled Scanning Toolkit Using AX12A Robot (Project K-STAR), Student Research Show, April, 2013.



4. Rudy Christopher (project assistant), Troy Lounsbury (project assistant) and S. Zhang (PI), data structures and algorithms generator development, June 30, 2013.
  5. S. Long, M. Lagueras and S. C. Chiu (student researchers) and S. Zhang (Faculty Sponsor), Exploring Entertaining Devices and Platforms, SUNY Oneonta student research program, 2011, also presented in the student research show in April 2012.
  6. E. Williams and T. Kish (student researchers) and S. Zhang (Faculty advisor), Preliminary Implementation of the Teaching Slides Generators for Heapsort and Range Coder(Student Poster), the Consortium for Computing Sciences in Colleges North-Eastern Conference (CCSCNE) 2009.
  7. C. Fregmen (student researcher) and S. Zhang (faculty sponsor), Mining Grass-root answers from the Internet, 2009 Consortium for Computing Sciences in Colleges . Northeastern Region (CCSCNE), Plattsburgh, NY, USA.
  8. C. Fregmen (student researcher) and S. Zhang (faculty sponsor), Building Phylogenetic Trees in Real time using Online Bio-Sequence Database. 2008 Consortium for Computing Sciences in Colleges . Northeastern Region (CCSCNE), State Island, NY, USA.
  9. C. Fregmen (student researcher) and S. Zhang (faculty sponsor), Build Phylogenetic Trees in Real time using Online Bio-Sequence Database, SUCO Student Research Show, April, 2008.
  10. A. Green (Physics student researcher), C. Fregmen ( CS student researcher), S. Labroo (Physics faculty advisor) and S. Zhang (Computer Science faculty advisor), PC controlled Hall Effect Measurement Set-up with Graphic User Interface, SUCO Student Research Show, April, 2008. (A student research project involving both physics and computer science students)
  11. R. Barton (student researcher) and S. Zhang (faculty sponsor), The Calculation of the Grand Cardinality of Multiple Partially Resolved Phylogenetic, 2007 Consortium for Computing Sciences in Colleges . Northeastern Region (CCSCNE), RIT, NY, USA.
  12. R. Barton (student researcher) and S. Zhang (faculty sponsor), A Graphic Interface to Display Phylogenetic Trees Developed During the Calculation of Grand Cardinality, SUCO Student Research Show, April, 2007
  13. E. Kent (student researcher), P. Dolensek (student researcher) and S. Zhang (faculty sponsor), An Online Annotation-Based Bookmarking System and Its Implementation and Some Preliminary Results, SUCO Student Research Show, April, 2007
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## **NOT FUNDED GRANT PROPOSALS**

1. NSF CE21 Central NY Exploring Computer Science: CS10k project, 2014
  2. Computational Thinking across the disciplines. Submitted to SUNY program of Conversations in the disciplines, March 2013
  3. SUNY IITG Mobile Apps for Data Structures and Algorithms, April, 2013
  4. NSF TUES, Auto-generated Teaching Materials, 2009-2011
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## **PROFESSIONAL SERVICES AND ACTIVITIES**

### National Science Foundation (NSF) Proposal Review Panelist

- Panelist for National Science Foundation (NSF) INFO INTEGRATION and INFORMATICS III-COR-SMALL Proposals, April - May, 08

### SUNY system Innovative Instructional Technology Grant

- reviewer, 2014

### Accreditation Board for Engineering and Technology(ABET)

- Program Evaluator

### Educational Testing Service(ETS)

- AP computer Science Reader

### Educational and Professional Training and Development

- Applications of HPC, Grids, Parallel Computing to Science Education, NCSA Access Center, Washington DC, July 20-July 26, 2008
- 2008 Super Computing Conference Education Program, Austin, TX, Nov. 14-18, 2008
- FCS-ARSPA-WITS'08 Joint Workshop on Foundations of Computer Security, Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, Carnegie Mellon University, Pittsburgh, PA, June 21-22, 2008
- Building a Better Learning Environment, Jan. 2013
- Participated in the SUNY (Center for Collaborative Online International Learning) COIL introduction meeting at Oneonta, March, 2013
- E-portfolios for documenting learning activities, April 26, 2013

Reviewer for Journals

- IEEE Transactions on Knowledge Discovery and Engineering
- International Journal of Data Mining and Bioinformatics
- International Journal of Knowledge and Information Sciences
- IEEE Transactions on Biomedical Engineering
- Algorithms
- Intelligent Data Analysis
- Very Large Database Journal (VLDB)
- Information Science
- Pattern Recognition
- Knowledge and Information Systems
- Pattern Analysis and Machine Intelligence
- Information Systems
- The International Journal on Computational Intelligence and Application
- International Journal of Computational Bioscience
- International Journal of Parallel, Emergent and Distributed Systems
- International Journal on Data Mining and Intelligent Information Technology Applications

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Reviewer for Conferences

- 18th International European Conference on Parallel and Distributed Computing, 2012
  - 2009 IEEE Data Compression Conference
  - 2008 International Conference in Data Mining(DMIN'08)
  - 2012 Computer Science & Information Technology Symposium
  - 2007 International Merlot Conference
  - 2006 SUNY Conference of Instructional Technology
  - 2006 ACM SIG on Knowledge Discovery and Data Mining
  - 2006 Pacific-Asia Conference on Knowledge Discovery and Data Mining
  - 2005 IEEE Symposium on Bioinformatics & Bioengineering
  - 2005 IEEE International Conference on Data Mining
  - 2004 IEEE International Conference on Data Engineering
  - 2003 IEEE International Conference on Data Mining
  - 2003 SIAM International Conference on Data Mining
  - 2002 IEEE International Conference on Data Mining
  - 2002 SIAM International Conference on Data Mining
  - 2002 Pacific-Asia Conference on Knowledge Discovery and Data Mining
  - 2001 IEEE International Conference on Data Mining
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### **COMMITTEE SERVICES**

- COLLEGIALLY/SHARED STEWARDSHIP Task Force of Academic Master Plan Phase 2 2013-2014
  - Departmental Personnel Committee , 2012-present
  - Middle States Re-accreditation Faculty Task Force, 2012-2013
  - President's Council on Diversity, since Fall, 2009-2012
  - Teaching with Technology Group, 2012-2013
  - Faculty Stainability Study Group, 2013
  - Introduction To Computing Technology Challenge Coordinator, Spring 2005, Fall 2006, and Fall 2007
  - Departmental Computer Science Program Committee Chair ,2010-2011, 2013-2014
  - Departmental Computer Science Program Committee.
  - College Graduate Committee, 2010-2012.
  - Contributed to the 2008 Computer Science program Assessment by recommending and meeting with external reviewers, 2008.
  - Departmental Grievance & Equity Committee 2005-2009.
  - Departmental Course Committee, 2007-2008, 2009-2013.
  - Departmental Long-Range Planning Committee, 2007-2008, 2009-2013.
  - Ryder-Michalak Scholarship Selection Committee, 2006, 2009, 2013.
  - Departmental Sanford Club Faculty Member.2004-2006
  - College Senate Committee, 2005-2007.
  - College Senate Committee on Part-time Faculty Concerns, 2006-2008.
  - College Senate Committee on Technology, 2008-2011
  - College Senate Committee on Academic Planning and Resource Allocation, 2008-2009
  - The Life of Mind (Celebration of Teaching, Research and Services) Committee, Since 2010.
  - Organized roundtable discussion of Technology in Teaching, Oct., 2011

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### **COMPUTER SCIENCE OUTREACH EFFORTS**

- Founded the Computer Science Teacher Association (CSTA)-Central NY chapter (With Robert Gann, Debbie Farro-Lynd and Jim Greenberg. etc. ). ( Dec. 2012 - Jan. 2013)
    - Organized Kids club (pilot run), collaborated with Oneonta World of Learning
    - Organized From Big Data to Computational Thinking. Invited Dr. Robert Panoff to give an NSF-sponsored talk. (With Hugh Gallegger, Jim Greenberg and Kelly Gallegger)
    - Organized the Bootstrap World workshop for school teachers and college students (with Laura Munteanu and Robert Sulman)
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### **COMMUNITY SERVICES**

- 2012 Diversity Conversation with Students
- Ad hoc committee of the 2011 Diversity Award Ceremony
- Conversation with the diversity leadership group, 2011
- Participated in various departmental and college level seminars
- Recommend tutors to CADE.
- Saturday Bread Event, 2005, 2006, 2007, 2008, 2012
- Sydney Flood Relief, Summer, 2006
- Center Street Elementary School Volunteer Day for Building Playground, Sept. 12, 2009
- Red Dragon Golf Tournament volunteer Day, Sept. 25, 2009
- A regular volunteer participant of annual Fall Open House Day, spring Academic Exploration Day for Accepted Students, new student advisement days and Candidate Recognition Ceremony events
  - A panelist of the panel discussion on How to Speak to Professors. The panel was coordinated by the Educational Opportunity Program office for the EOP Summer Academy of 2009
  - Administered pretests of the ETS Computer Science AP, 2011 - 2013
  - the ETS Computer Science AP reader, 2013 - 2014
  - the ETS Computer Science AP Principle consultant, 2014
  - Participated in the CDO STEM Leadership Council meetings, Spring 2013
  - Participated in the UUP/NYSUT Rally in Albany to support SUNY downstate universities, Jan.7, 2013

Last Updated Sept, 2014