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Education

Ph.D. in Computer and Information Science, West Virginia University, 2004

M.S. in Computer Science, West Virginia University, 2000

B.S. Biochemistry and Molecular Biology, Peking University (Beijing University), 1997

Positions

2004- 2005 Assistant Professor, Department of Computer Science,
University of Southern Mississippi, Hattiesburg, MS

2005- 2008 Research Assistant Professor, Mary Babb Randolph Cancer Center/Community
Medicine, West Virginia University, Morgantown, WV

2008-present Assistant Professor, Mary Babb Randolph Cancer Center/Community
Medicine, West Virginia University, Morgantown, WV

2006-present Adjunct Assistant Professor, Lane Department of Computer Science and
Electrical Engineering, West Virginia University, Morgantown, WV

2009-present Program Assistant Director of West Virginia Clinical & Translational Science Institute
for Biomedical Informatics, West Virginia University, Morgantown, WV

2011-present Associate Professor, Mary Babb Randolph Cancer Center/Community
Medicine, West Virginia University, Morgantown, WV

Other Experience and Professional Memberships

Ad hoc Reviewer, NIH/NIGMS SCORE grants, 2009

Special Emphasis Panel MBRS-2 (GC), NIH/NIGMS, 2011

Editorial Board Member, Oncology Letters

Editorial Committee Member, Journal of Thoracic Disease

Executive Committee, International Society for Translational Medicine

Program Committee, IEEE International Conference on Bioinformatics and Biomedicine, 2009-pres

Organizing Committee, the 6th Conference on Molecular Mechanisms of Metal Toxicity and
Carcinogenesis

Journal Reviewer (Bioinformatics, Journal of Molecular Medicine, PLoS ONE, BMC GenomicsExpert
Review of Proteomics, Computer Methods and Programs in Biomedicine, and Cancer Detection
and Prevention)

Conference Proceeding Reviewer (IEEE International Conference on Bioinformatics and Biomedicine
[2009, 2010], IEE Proceedings-Software, IEEE Dependable Computing and Communications
Symposium of the International Conference on Dependable Systems and Networks, International
Symposium on Software Reliability Engineering)

Pending Patents

Population-based Breast Cancer Prognosis by Transcriptional Profiling, **Guo NL**, Abraham J.

Non-small Cell Lung Cancer Prognosis by Transcriptional profiling, **Guo NL**.

Gene Expression Signature of Genomic Instability in Breast Cancer, Ried T, Habermann J, **Guo NL**,
Auer G.

An mRNA expression-based prognostic gene signature for non-small cell lung cancer, **Guo NL** and Wan Y.

Lung cancer prognostic gene signature identified with a molecular network approach, **Guo NL**.

Identification of miRNA markers for breast cancer diagnosis and prognosis, **Guo NL**.

Honors

Upsilon Pi Epsilon (UPE) International Computer Science Honor Society Membership in USA

2001 UPE Microsoft Scholarship Award

2001-2004 Lane Fellowship Award

2002 IEEE ISSRE Student Travel Award (Sponsored by Microsoft, IBM, and Cigital)

2002 WVU/NASA Research Group Outstanding Student Award

2007 NIOSH Nomination for the CDC Excellence in Science Awards (CHARLES C. SHEPARD SCIENCE AWARDS)

Peer-reviewed Publications (A total of 30; *Corresponding author)

Guo NL. Estimating Component Availability by Dempster-Shafer Belief Networks. In IEEE Press; 2002. p. 204.

Cukick B, Gunel E, Singh H, **Guo NL**. Assurance Systems and Networks: The Theory of Software Reliability Corroboration. IEICE Trans Inf Syst 2003;E86-D(10):2121-9.

Guo NL, Cukic B, Singh H. Predicting Fault Prone Modules by the Dempster-Shafer Belief Networks. In Proc. 18th IEEE International Conference on Automated Software Engineering; IEEE Press; 2003. p. 249-52.

Guo NL, Cukic B, Singh H. Predicting Fault Prone Modules by the Dempster-Shafer Belief Networks. In IEEE Press; 2003. p. 249-52.

Boddu R, **Guo NL**, Mukhopadhyay S, Cukic B. RETNA: From Requirements to Testing in a Natural Way. In Proc. 12th IEEE International Requirements Engineering Conference; IEEE Press; 2004. p. 262-71.

Guo NL, Mukhopadhyay S, Cukic B. Does Your Result Checker Really Check? In Proc. the International Conference on Dependable Systems and Networks; IEEE Press; 2004. p. 399-405.

Guo NL, Ma Y, Cukic B, Singh H. Robust Prediction of Fault-Proneness by Random Forests. In Proc. 15th IEEE International Symposium on Software Reliability Engineering; IEEE Press; 2004. p. 417-28.

Guo NL*, Ma Y, Ward R, Castranova V, Shi X, Qian Y. Constructing molecular classifiers for the accurate prognosis of lung adenocarcinoma. Clin.Cancer Res. 2006;12(11 Pt 1):3344-54. PM:16740756.

Ma Y, Ding Z, Qian Y, Shi X, Castranova V, Harner EJ, **Guo NL***. Predicting cancer drug response by proteomic profiling. Clin.Cancer Res. 2006;12(15):4583-9. PM:16899605.

Ou Y, **Guo NL**, Zhang CQ. A New Clustering Method and Its Application to Proteomic Profiling for Colon Cancer. In ACTA Press; 2006. p. 68-71.

Guo NL*, Abraham J, Flynn DC, Castranova V, Shi X, Qian Y. Individualized survival and treatment response predictions for breast cancers using phospho-EGFR, phospho-ER, phospho-HER2/neu, phospho-IGF-IR/In, phospho-MAPK, and phospho-p70S6K proteins. Int.J.Biol.Markers 2007;22(1):1-11. PM:17393355.

Ma Y, **Guo NL**, Cukic B. A Statistical Framework for the Prediction of Fault-Proneness. In: Zhang D, Tsai J, editors. Advances in Machine Learning Application in Software Engineering. Hershey: IGI Publishing; 2007.

- Ma Y, Qian Y, Wei L, Abraham J, Shi X, Castranova V, Harner EJ, Flynn DC, **Guo NL***. Population-based molecular prognosis of breast cancer by transcriptional profiling. *Clin.Cancer Res.* 2007;13(7):2014-22. PM:17404081.
- Guo NL***, Abraham J, Flynn DC, Castranova V, Shi X, Qian Y. Individualized Survival and Treatment Response Predictions in Patients with Breast Cancer: Involvements of Phospho-EGFR and Phospho-Her2/neu Proteins. *The Open Clinical Cancer Journal* 2008;2:18-31.
- Guo NL***, Wan YW, Tosun K, Lin H, Msiska Z, Flynn DC, Remick SC, Vallyathan V, Dowlati A, Shi X, et al. Confirmation of gene expression-based prediction of survival in non-small cell lung cancer. *Clin Cancer Res* 2008;14(24):8213-20. PM:19088038.
- Habermann JK, Doering J, Hautaniemi S, Roblick UJ, Bundgen NK, Nicorici D, Kronenwett U, Rathnagiriswaran S, Mettu RK, Ma Y, Kruger S, Bruch HP, Auer G, **Guo NL***, Ried T* (**Co-senior author). The gene expression signature of genomic instability in breast cancer is an independent predictor of clinical outcome. *Int J Cancer* 2008. PM:19101988.
- Yao H, **Guo NL**, Jiang BH, Luo J, Shi X. Oxidative stress and chromium(VI) carcinogenesis. *J Environ.Pathol.Toxicol.Oncol.* 2008;27(2):77-88. PM:18540844.
- Apopa PL, Qian Y, Shao R, **Guo NL**, Schwegler-Berry D, Pacurari M, Porter D, Shi X, Vallyathan V, Castranova V, and Flynn DC. Iron oxide nanoparticles induce human microvascular endothelial cell permeability through reactive oxygen species production and microtubule remodeling. *Part Fibre.Toxicol.* 2009;6(1):1. PM:19134195.
- Ma Y, Ding Z, Qian Y, Wan YW, Tosun K, Shi X, Castranova V, Harner EJ, **Guo NL***. An integrative genomic and proteomic approach to chemosensitivity prediction. *Int J Oncol.* 2009;34(1):107-15. PM:19082483.
- Guo NL***, Tosun K, Horn K. Impact and interactions between smoking and traditional prognostic factors in lung cancer progression. *Lung Cancer*, 2009 March 20. [Epub ahead of print]. PM: 19304339.
- Rathnagiriswaran S, Wan Y, Abraham J, Castranova V, Qian Y, and **Guo NL***. A Population-based gene signature is predictive of breast cancer survival and chemoresponse. *Int. J. Oncol.* 2010; 36(3):607-16
- Qian Y, Ducatman A, Ward R, Leonard S, Bukowski V, **Guo NL**, Shi X, Vallyathan V, and Castranova V. Perfluorooctane Sulfonate (PFOS) Induces Reactive Oxygen Species (ROS) Production in Human Microvascular Endothelial Cells: Role in Endothelial Permeability. *Journal of Toxicology and Environmental Health,Part A*, 73:819–836, 2010
- Wan Y, Qian Y, Rathnagiriswaran S, Castranova V, and **Guo NL***. A Breast Cancer Prognostic Signature Predicts Clinical Outcomes in Multiple Tumor Types. *Oncology Reports* 24: 489-494, 2010
- Wan Y, Bose S, Denvir J, and **Guo NL***. A Novel Network Model for Molecular Prognosis. *Proc. ACM International Conference on Bioinformatics and Computational Biology.* p366-369, 2010.
- Wan Y, Sabbagh E, Raese R, Qian Y, Luo D, Denvir J, Vallyathan V, Castranova V, **Guo NL***. Hybrid Models Identified a 12-Gene Signature for Lung Cancer Prognosis and Chemoresponse Prediction. *PLoS ONE* 5(8): e12222, 2010.
- Mettu R, Wan Y, Habermann JK, Ried T, **Guo NL***. A 12-Gene Genomic Instability Signature Predicts Clinical Outcomes in Multiple Cancer Types. *The International Journal of Biological Markers.* 2010 Nov 23;25(4).
- Wan Y, Xiao C, **Guo NL***. Network-Based Identification of Smoking-Associated Gene Signature for Lung Cancer. *Proc. IEEE International Conference on Bioinformatics & Biomedicine, IEEE Press,* 2010; p479-484.
- Guo NL***, Wan Y, Bose S, Denvir J, Kashon M, Andrew M. A novel network model identified a 13-gene lung cancer prognostic signature. *The International Journal of Computational Biology and Drug Design. Special Issue on ACM-BCB.* Vol. 4 No. 1 p19-39, 2011. PMID: 21330692.

- Putila J, Remick SC, **Guo NL***. Combining Clinical, Pathological, and Demographic Factors Refines Prognosis of Lung Cancer: A Population-based Study. PLoS ONE, 2011 Feb 25;6(2):e17493. PMID: 21364765
- Son Y-O, Hitron JA, Cheng S, Budhraj A, Zhang Z, **Guo NL**, Lee J-C, Shi X. The Dual Roles of c-Jun NH2-Terminal Kinase Signaling in Cr(VI)-Induced Apoptosis in JB6 Cells. Toxicological Sciences 119(2), 335–345, 2011. PMID: 21047991.

Book Chapters

- Ma Y, **Guo NL**, Cukic B, A Statistical Framework for the Prediction of Fault Proneness, in Advances in Machine Learning Applications in Software Engineering, D. Zhang and J. P. Tsai (Eds), Idea Group Publishing, 2007, pp. 237-264.
- Qian Y, Shi X, Castranova V, **Guo NL***. Molecular Profiling in Breast Cancer Patients. Genomics and Pharmacogenomics in Anticancer Drug Development and Clinical Response. (Edited by Federico Innocenti), Humana Press. 2009; p287-298. ISBN:9781588296467. (Book Reviewed by Nature Publishing Group)

Abstracts and Conference Presentations

- Guo NL**. Estimating Component Availability by Dempster-Shafer Belief Networks. The 13th IEEE International Symposium on Software Reliability Engineering (ISSRE'02). *Paper/Presentation/Poster*, November 2002 in Washington DC.
- Guo NL**, Cukic B, Singh H. Predicting Fault Prone Modules by the Dempster-Shafer Belief Networks. The 18th IEEE International Conference on Automated Software Engineering (ASE'03). *Paper/Poster*, October 2003 in Montreal, Canada.
- Petros W, Konat G, Zarepari S, Mettu R, **Guo NL**, Abraham J. Brain gene expression profile in a model of chemotherapy-induced cognitive dysfunction. AACR 100th Annual Meeting, *Abstract/Poster*, April 2009 in Denver, CO.
- Wan Y, **Guo NL**. Constructing Gene-Expression Based Survival Prediction Model for Non-Small Lung Cancer (NSCLC) in All Stages and Early Stages. IEEE International Conference on Bioinformatics & Biomedicine, *Abstract/Poster*, November 2009 in Washington, D.C.
- Guo NL**. An integrative genomic and proteomic approach to chemosensitivity prediction. BIT Life Sciences' 3rd Annual Protein & Peptide Conference, *Abstract/Presentation*, March 2010 in Beijing, China
- Pacurari M, Qian Y, Hubbs A, Porter DW, Wolfarth M, Dajie L, Xiao C, Castranova V, **Guo NL***. Gene Expression Signature in the Mouse Lung in Response to Multi-Wall Carbon Nanotube Exposure. Allegheny-Erie Society of Toxicology, *Abstract/Poster*, April 29, 2010 in Pittsburgh.
- Wan Y, Bose S, Denvir J, and **Guo NL**. A Novel Network Model for Molecular Prognosis. Proc. ACM International Conference on Bioinformatics and Computational Biology. *Paper/Presentation*, August 2010 in Buffalo, NY.
- Guo NL***, Raese R, Barnett J, Rojanasakul Y, Jiang B, Luo D, Castranova V, Qian Y. Gene expression profiling of prognostic lung cancer signature in tumors from heavy metal transformed xenograft animals. The 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, November 2010 in Lexington, Kentucky.
- Apopa PL, **Guo NL**, Schwegler-Berry D, Pacurari M, Porter D, Shi X, Vallyathan V, Castranova V, Flynn DC, and Qian Y. Iron oxide nanoparticles induce human microvascular endothelial cell permeability through reactive oxygen species production and microtubule remodeling. The 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, November 2010 in Lexington, Kentucky.

Barnett JB, Holaskova I, Elliott M, Schafer R, Rojanasakul Y, Jiang B, and **Guo NL**. The role of the hedgehog pathway in heavy metal induced carcinogenesis. The 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, November 2010 in Lexington, Kentucky.

Wan Y, Xiao C, **Guo NL***. Network-Based Identification of Smoking-Associated Gene Signature for Lung Cancer. Proc. IEEE International Conference on Bioinformatics & Biomedicine, *Paper/Presentation*, December 2010 in Hong Kong.

Putila J, **Guo NL***. Identification of miRNA associated with chemoresponse using combined clinical, population, and cellular data in lung cancer. The 14th Annual Meeting of the Translational Research Cancer Center Consortium, *Abstract/Poster*, February 2011 in Pittsburgh, PA

Guo NL*, Raese R. Identification of miRNA markers for breast cancer diagnosis. The 14th Annual Meeting of the Translational Research Cancer Center Consortium, *Abstract/Poster/Oral Presentation*, February 2011 in Pittsburgh, PA

Putila J, **Guo NL***. Identification of miRNA associated with chemoresponse using combined clinical, population, and cellular data in lung cancer. AACR 101st Annual Meeting, *Abstract/Poster*, April 2010 in Orlando, FL.

Technical Reports

Guo NL, Cloning the Em Protein Gene from Upland Rice 94 H8-85, *Technical Report*, Beijing University, 1997

Guo NL, Development of a Web-based, Multimedia Database for Collection, Organization, and Analysis of Biomedical Signals, *Technical Report*, West Virginia University, 2000

Research Support

Ongoing Research Support

| | | |
|--|-------------|-------------------|
| 1R01LM009500 | Guo (PI) | 9/15/08 – 9/14/11 |
| NIH/NLM | | \$990,670/total |
| A Novel Computational Framework for Individualized Clinical Decision-Making | | |
| To develop a novel bioinformatics framework for identifying new biomarkers from high through-put data and construct molecular prognostic models for individualized clinical decision-making. | | |
| Role: PI | | |
| P20RR16440 | Gibson (PI) | 9/01/01 – 6/30/11 |
| NIH/NCRR | | \$1,281,875/total |
| CoBRE in Signal Transduction | | |
| To establish a Center of Biomedical Research Excellence (CoBRE) in Signal Transduction and Cancer. My project was to develop a novel bioinformatics methodology for cancer biomarker identification and prognosis. | | |
| Role: Project Director (graduated in October, 2008 after obtaining independent R01) | | |
| P20RR16440 | Gibson (PI) | 8/26/09 – 8/25/11 |
| NIH/NCRR | | \$1,000,000/total |
| Cobre for Signal Transduction and Cancer: NCRR ARRA Supplement – Translational. | | |
| This research will develop an accurate prognostic model by combing patient gene expression profiles, demographic, clinical, and pathological factors to predict lung cancer recurrence. Furthermore, regulatory factors in lung cancer progression will be explored using microRNA approaches. | | |
| Role: Project Director | | |

Pending Research Support

R01CA098522-05 Yeatman (PI)
NIH/NCI

12/1/09-11/30/14

Signatures to Predict Breast Therapy Outcomes

To identify gene signatures from DNA microarray data and immunohistochemistry assays to predict therapeutic outcomes in breast cancer patients treated with tamoxifen.

Role: Co-investigator

P50CA148098A
NIH/NCRR

12/1/09-11/30/14

WV Center for Population Health and Health Disparities

Project 3: to investigate mechanisms and interacting pathways in heavy metals induced carcinogenesis in lung epithelial cells and a xenograft mouse model, to substantiate the clinical relevance of heavy metal exposures in human lung cancer tissues, and to assess the risk in exposed population in West Virginia.

Role: Investigator

R01CA149503-01
NIH/NCI

3/1/10-2/28/15

Molecular Network Approaches to Lung Cancer Prognosis

To develop a novel methodology of molecular network analysis to identify lung cancer prognostic gene signatures and validate the prognostic model with patient samples collected in prospective clinical trials.

Role: PI

U19 ES019555-01 Rojanasakul (PI)
NIEHS

10/1/2010-9/30/2015

Carbon Nanotube-Induced Carcinogenesis: Structure-Function Relationship

This application proposes to develop exposure models for carbon nanotubes and investigate their potential carcinogenic effects. I am project director for Project 3: Risk Assessment of CNT Exposure.

Role: Project Director

Completed Research Support

Institutional PPG Seed Grant
West Virginia University Award

1/01/09-12/31/09

\$25,000/direct

Mechanisms of lung carcinogenesis induced by heavy metals

This institutional grant supports the research for an external P01 application to investigate 1) mechanisms and interacting pathways in heavy metals induced carcinogenesis in lung epithelial cells and a xenograft mouse model, and 2) the identification of a prognostic signature in cells transformed by heavy metals.

Role: investigator

DAMD17-02-1-0621 Jame Abraham (PI)
DOF, Army, Office of Research & Development

10/1/02 – 9/31/08

\$2,000

Project: Randomized Trial of Neuroprotective Effects of Erythropoietin in Patients Receiving Adjuvant Chemotherapy for Breast Cancer: Positron Emission Tomography and Neuropsychological Study

Role: sub-contractor

RDG NT10017W Guo (PI)

1/1/06-12/31/06

West Virginia University Award

\$11,000/direct

A Novel Computational Model System for Accurate Prognosis of Lung Cancer.

To establish a computational model system to construct molecular prognostic models for lung cancer.

Role: PI

Invited Talks

Personalized Cancer Prognosis and Therapy by Molecular Profiling, May 3, 2007, National Cancer Institute, Bethesda, MD

Molecular Prognosis of Non-Small Cell Lung Cancer Recurrence, July 10, 2007, Pathology and Physiology Research Branch, National Institute of Occupational Safety and Health (NIOSH), Morgantown, WV

Gene expression-based Prognostic Models for Personalized Cancer Therapy, April 10, 2009, University of Kentucky, Lexington, KY

Development of Gene Expression-based Prognostic Models, June 26, 2009, Tumor Board Meeting at CAMC, Charleston, WV

Gene expression profiling of prognostic lung cancer signature in tumors from heavy metal transformed xenograft animals. November 15, 2010. The 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, Lexington, KY.

Teaching Experiences

| Semester | University | Role | Course | Level | Enrollment |
|--------------|------------|--|---|------------|------------|
| Fall, 2010 | WVU | Lecturer (Coordinator: R. Abraham) | PUBH706: Current Research Issues | M.S./Ph.D. | 5 |
| Fall, 2010 | WVU | Course Coordinator | PUBH691: Bioinformatics and Personalized Medicine (Required course for NIH Cardiovascular and Pulmonary Disease Training Grant) | M.S./PH.D. | 11 |
| Spring, 2010 | WVU | Lecturer (Coordinator: R. Abraham) | PUBH660: Public Health Epidemiology | M.S. | 27 |
| Fall, 2009 | WVU | Course Coordinator | PUBH691: Bioinformatics and Personalized Medicine | M.S./PH.D. | 9 |
| Spring, 2009 | WVU | Lecturer (Coordinator: R. Abraham) | PUBH706: Current Research Issues | Ph.D. | 6 |
| Fall, 2008 | WVU | Lecturer (Coordinator: S. Frisch) | CCB700: Basic and Clinical Aspects of Cancer | Ph.D. | 6 |
| Spring, 2005 | USM | Course Coordinator | Advanced Software Systems | M.S./Ph.D. | ~10 |

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|---------------------|-----|--------------------|----------------------------------|------------------|-----|
| Spring, 2005 | USM | Course Coordinator | Introduction to Computer Science | Undergrad | ~40 |
| Spring, 2001 | WVU | Teaching Assistant | Operation Systems Structure | Senior /Graduate | ~40 |
| Spring/Summer, 1999 | WVU | Teaching Assistant | Introduction to Data Structure | Undergrad | ~40 |

Advised Post-Doctoral Fellows

Patrick Apopa, Ph.D. 2006-2008. Currently a senior post-doc fellow at Thomas Jefferson University.
 Vijayakumar Shanmugham, Ph.D. 2010. Currently a senior post-doc fellow in India.
 Maricica Pacurari, Ph.D. 2010-pres

Advised Students

Zhengyu Ding, MSCS, 2007. Thesis: Molecular Prediction of Drug Response Using Machine Learning Methods. Currently a Data Manager at Precision Therapeutics Inc.
 Shruti Rathnagiriswaran, MSEE, 2008. Thesis: Identifying Genomic Signatures for Predicting Breast Cancer Outcomes. Currently a Database Administrator at Trinity Washington University.
 Rama Mettu, MSEE, 2008. Thesis: Constructing Gene Expression-Based Prognostic Models to Predict Recurrence and Lymph Node Metastasis in Colon Cancer
 Liang Wei, M.S. in Statistics, MPH, 2006. Currently in CDC
 Swetha Bose, MSEE, 2009. Thesis: Identifying Prognostic Gene Signatures Using a Network-based Approach. Currently a Clinical Data Analyst at Cancer Treatment Centers of America (CTCA).
 Naveen Bondalapati, candidate in MPH. Currently admitted to Family Medicine Residency Program at Union Hospital, Terre Haute, Indiana.
 Kursad Tosun, M.S. in Statistics, 2010. Currently a Ph.D. candidate in Mathematics at Southern Illinois University.
 Jiajia Wang, M.S. in Statistics 2010, MS in Pharmacology. Biostatistician at Harvard School of Public Health.
 Changchang Xiao, M.S. in Statistics. M.S. candidate in Public Health. Senior Research Assistant at Johns Hopkins School of Public Health.
 Ying-WooiWan, Ph.D. candidate in Computer and Information Science
 Joseph Putila, Ph.D. candidate in Public Health
 Julian Dymacek, Ph.D. candidate in Computer Science.
 Brian Burdi, M.S. candidate in Statistics
 Yohannes D. Gebremariam, M.S. candidate in Statistics

Mentored Students

Rebecca Ward, Lab Rotation, 2006
 Elyse Walk, Lab Rotation, 2007. Currently in CCB Program at WVU.
 Yan Ma, Ph.D. in Combinatorial Computation and Discrete Mathematics, 2007. Currently at Bristol-Myers Squibb as a Senior Research Biostatistician.
 Jillian Rogers, Medical Student, Recipient of 2008 National Honor Medical Society Alpha Omega Alpha Scholarship for the breast cancer biomarker project. Currently at WVU Medical School.
 Omer Zulfiqua, Medical Student, lung cancer biomarker project, 2008. Currently at WVU Medical School.
 Ebrahim Sabbagh, B.S. in Biology, 2009. Currently a medical student at West Virginia School of Osteopathic Medicine.
 Brent McMillion, B.S. in Biochemistry 2009.

Lindsay Padden, WV-INBRE Summer Research Intern, 2009

Served Student Committees

Committee Chair for Zhengyu Ding, MS in Computer Science, 2007.

Committee Chair for Shruti Rathnagiriswaran, MS in Electrical Engineering, 2008

Committee Chair for Rama Mettu, MS in Electrical Engineering, 2008

Committee Chair for Swetha Bose, MS in Electrical Engineering, 2009

Committee member for Nick Bartlow, Ph.D. in Computer and Information Science, 2009

Advisor/Committee member for Kursad Tosun, M.S. in Statistics, 2010

Advisor/Committee member for Jiajia Wang, M.S. in Statistics 2010

Advisor/Committee member for Changchang Xiao, M.S. in Statistics 2010

Committee Chair for Ying-Wooi Wan, Ph.D. candidate in Computer Science, 2007-pres

Committee Chair for Joseph Putila, Ph.D. candidate in Public Health, 2008 to pres.

Committee member for Andrew Anesetti-Rotherme, Ph.D. candidate in Public Health, 2009 to pres.

Services

Program Co-Director of WVU CTSI for Biomedical Informatics

Review Committee of Research Funding Development Grant (RFDG) at WVU since 2008

Search committee of open rank faculty in Mary Babb Randolph Cancer Center, 2009

Search committee of biomedical informatics program director of WVU CTSI, 2009

Search committee of biostatistician in Department of Community Medicine, 2010

Participated in interviews and evaluations of thoracic surgeons of Department of Medicine, molecular pathologists of Department of Pathology, and Director of Biostatistics of WVU CTSI, 2009 and 2010

Van Liere Convocation and Research Day Committee, 2009 and 2010