# CURRICULUM VITAE OF CHANGWON YOO, DEPARTMENT OF BIOSTATISTICS

| EDI  | A TI             | <b>ON</b> |
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| 1717 | <br><b>~ 1</b> 1 |           |

| Degree | Institution              | Field                         | <b>Dates</b> |
|--------|--------------------------|-------------------------------|--------------|
| Ph.D.  | University of Pittsburgh | <b>Biomedical Informatics</b> | May, 2003    |
| S.M.   | Harvard University       | Computer Science              | May, 1997    |

# FULL-TIME ACADEMIC EXPERIENCE

| Institution             | Rank                       | Field                         | Dates (Month/Year) |
|-------------------------|----------------------------|-------------------------------|--------------------|
| Florida International   | Associate Professor        | Biostatistics                 | 08/2015 – Present  |
| University              |                            |                               |                    |
| Florida International   | <b>Assistant Professor</b> | Biostatistics                 | 08/2009 - 08/2015  |
| University              |                            |                               |                    |
| University of           | <b>Assistant Professor</b> | Computer Science              | 08/2003 - 05/2009  |
| Montana                 |                            |                               |                    |
| Virginia                | Senior Research            | Bioinformatics                | 08/2002 - 07/2003  |
| Bioinformatics          | Associate                  |                               |                    |
| Institute, Virginia Teo | ch                         |                               |                    |
| University of           | Research Associate         | Biomedical Informatics        | 08/1998 - 07/2002  |
| Pittsburgh              |                            |                               |                    |
| Massachusetts           | Research Associate         | <b>Biomedical Informatics</b> | 08/1996 - 07/1998  |
| Institute of            |                            |                               |                    |
| Technology/Harvard      |                            |                               |                    |
| Univ.                   |                            |                               |                    |

## PART-TIME ACADEMIC EXPERIENCE

| Institution          | Rank        | Field                      | Dates (Month/Year) |
|----------------------|-------------|----------------------------|--------------------|
| SsangYong Info.      | Lecturer    | Probability and Statistics | 02/1993 - 08/1996  |
| & Communication      |             |                            |                    |
| Education Center, Se | eoul, Korea |                            |                    |

## NON-ACADEMIC EXPERIENCE

| Place of Employment                 | Title             | Dates (Month/Year) |
|-------------------------------------|-------------------|--------------------|
| SsangYong Info. & Communication Co. | Software Engineer | 02/1992 - 08/1996  |
| Seoul, Korea                        |                   |                    |

#### PUBLICATIONS IN DISCIPLINE

## **Peer Reviewed Articles**

- 1. JM Youngblut, D. Brooten, J Glaze, T Promise, **C. Yoo**, Parent Grief 1–13 Months after Death in Neonatal/Pediatric Intensive Care Units, Journal of Loss and Trauma, In Press, 2016
- 2. D. Roy, M. Morgan, C. Yoo, A. Deoraj, S. Roy, VK Yadav, M. Garoub, H. Assaggaf, M. Doke, Integrated bioinformatics, environmental epidemiologic and genomic approaches to identify environmental and molecular links between endometriosis and breast cancer, *International journal of molecular sciences* 16(10) p25285-25322, 2015
- 3. HK Kim, JY Kwon, C. Yoo, S. Abdi, The Analgesic Effect of Rolipram, a Phosphodiesterase 4 Inhibitor, on Chemotherapy-Induced Neuropathic Pain in Rats, *Anesthesia & Analgesia*, 121(3) p822–828, 2015
- 4. JM Youngblut, D. Brooten, K. Blais, C. Kilgore, C. Yoo, Health and Functioning in Grandparents After a Young Grandchild's Death, *Journal of Community Health*, DOI: 10.1007/s10900-015-0018-0. 2015
- 5. T. Samikkannu, KVK. Rao, AAA Salam, VSR Atluri, EM Kaftanovskaya, M. Agudelo, S. Perez, C. Yoo, A. D. Raymond, H. Ding, M.P.N. Nair. HIV Subtypes B and C gp120 and Methamphetamine Interaction: Dopaminergic System Implicates Differential Neuronal Toxicity, *Scientific Reports*, doi:10.1038/srep11130, 2015
- 6. V. Okoh, N. Garba, R. Penney, J. Das, A. Deoraj, K. Singh, S. Sarkar, Q. Felty, **C. Yoo**, R. Jackson, D. Roy, Redox Signaling to Nuclear Regulatory Proteins by Reactive Oxygen Species Contributes to Estrogen-Induced Growth of Breast Cancer Cells, *British Journal of Cancer*, 112 (10), 1687-1702, 2015
- M. Kim, L Ramirez, C. Yoo, MS Choo, JS Paick, SJ Oh, Factors Influencing Nonabsolute Indications for Surgery in Patients With Lower Urinary Tract Symptoms Suggestive of Benign Prostatic Hyperplasia: Analysis Using Causal Bayesian Networks, *International Neurourology Journal*, 18(4):198-205. DOI: 10.5213/inj.2014.18.4.198, 12/2014
- 8. **C. Yoo**, J. Pfau, Bayesian probabilistic statistical model for asbestos-associated autoimmunity risk assessment, *Advances and Applications in Statistics*, In Press, double spaced 16 pages
- 9. B. Luna, S. Bhatia, **C. Yoo**, Q. Felty, D.I. Sandberg, M. Duchowny, Z. Khatib, I. Miller, J. Ragheb, J. Prasanna, D. Roy, Proteomic and mitochondrial genomic analyses of pediatric brain tumors, *Molecular Neurobiology*, DOI:10.1007/s12035-014-8930-3, 2014
- 10. M. Kang, M. Kim, MS Choo, J. Bae, JH Ku, C. Yoo, SJ Oh, Association of high bladder neck elevation with urodynamic bladder outlet obstruction in patients with lower urinary tract symptoms/benign prostatic hyperplasia. *Urology*, DOI:10.1016/j.urology.2014.08.037, 12/2014
- 11. M. Kim, A. Cheeti, **C. Yoo**, M. Choo, SJ Oh. Non-invasive parameters for the prediction of urodynamic bladder outlet obstruction: analysis using causal Bayesian networks, *PLOS One*, DOI: 10.1371/journal.pone.0113131, 2014
- 12. J. Jung, S. Cho, C. Yoo, S. Oh, Establishment of the Novel Cystoscopic Classification for bladder Trabeculation of Neurogenic Bladder, *Urology*; 84(3):515–519. DOI: 10.1016/j.urology.2014.05 .015, 09/2014
- 13. T. Samikkannu, KVK. Rao, H. Ding, M. Agudelo, A. D. Raymond, C. Yoo, M.P.N. Nair. Immunopathogenesis of HIV Infection in Cocaine Users: Role of Archidonic Acid, *PLOS One*, DOI: 10.1371/journal.pone.0106348, August, 2014
- 14. M. Agudelo, P. Khatavkar, A. Yndart, C. Yoo, R. Rosenberg, J.G. Dévieux, R.M. Malow, M. Nair, Alcohol Abuse and HIV infection: Role of DRD2, *Current HIV research*, PMID:25053368, July 2014

- 15. **C. Yoo**, L. Ramirez, J. Liuzzi, Big data analysis using modern statistical and machine learning methods in medicine, *International Neurourology Journal* 18 (2), 50-57, 2014
- 16. B. Luna, S. Bhatia, C. Yoo, Q. Felty, D.I. Sandberg, M. Duchowny, Z. Khatib, I. Miller, J. Ragheb, J. Prasanna, D. Roy, Bayesian Network and Mechanistic Hierarchical Structure Modeling of Increased likelihood of Developing Intractable Childhood Epilepsy from the Combined Effect of mtDNA Variants, Oxidative Damage, and Copy Number, *Journal of Molecular Neuroscience*, p1-15, 2014
- 17. J.P. Liuzzi, L. Guo, C. Yoo, T.S. Stewart, Zinc and autophagy, BioMetals, 1-10, 2014
- 18. S.H. Kim, **C. Yoo**, M. Choo, J.S. Paick, S.J. Oh, Factors affecting de novo urinary retention after holmium laser enucleation of the prostate. *PLOS One*, 9(1): e84938. doi:10.1371/journal.pone.0084938, 2014
- 19. T. Samikkannu, K.V.K. Rao, A.Y. Arias, A. Kalaichezian, V. Sagar, C. Yoo, M.P.N. Nair, HIV infection and drugs of abuse: role of acute phase proteins, *Journal of Neuroinflammation*, **10**:113 doi:10.1186/1742-2094-10-113, 2013
- 20. **C. Yoo**, E. Brilz, Efficient and Scalable Bayesian Statistical Method for Identifying Causal Relationships from Intervention Studies, *Advances and Applications in Statistics*, 37(2), p95-122, 2013
- 21. J. Liuzzi, **C. Yoo**, Role of zinc in the regulation of autophagy during ethanol exposure in human hepatoma cells, *Biological trace element research*, doi:10.1007/s12011-013-9816-3, 2013
- 22. B. Kunkle, **C. Yoo**, D. Roy. Reverse Engineering of Modified Genes by Bayesian Network Analysis Defines Molecular Determinants, *PLOS One*, 8(5): e64140. doi:10.1371/journal.pone.0064140, 2013
- 23. S.Y. Cho, J.B. Bae, **C. Yoo**, S.J. Oh. Establishment of a Grading System for Bladder Trabeculation, *Urology*; 81(3), p503-507, 2013
- 24. **C. Yoo**, Statistical Methods in Experimentation Recommendation Models for Discovering Gene Regulation Pathways, *Wiley WIREs Computational Statistics*, 5(2) p121-134, 2013
- 25. B. Kunkle, **C. Yoo**, D. Roy. Discovering gene-environment interactions in Glioblastoma through a comprehensive data integration bioinformatics method. *NeuroToxicology*, 35, p1-14 2013
- 26. M. Águdelo, **C. Yoo**, M.P. Nair, Alcohol-induced serotonergic modulation: The role of histone deacetylases, *Alcohol*, 46(12), p635-642, 2012
- 27. **C. Yoo**, Bayesian Method for Causal Discovery of Latent-Variable Models from a Mixture of Experimental and Observational Data, *Computational Statistics and Data Analysis*, 56, p2183-2205, 2012
- 28. **C. Yoo**, E. Blitz, M. Wilcox, M. Pershouse, E. Putnam. Gene Pathways Discovery in Asbestos-Related Diseases using Local Causal Discovery Algorithm, *Communications in Statistics Simulation and Computation*. 41(10), p1840-1859, 2012
- 29. Q. Felty, **C. Yoo**, A. Kennedy, Gene expression profile of endothelial cells exposed to estrogenic environmental compounds: Implications to pulmonary vascular lesions, *Life Sciences*, 86(25-26), p919-927 2010
- 30. **C. Yoo**, E. Blitz. Local Causal Discovery Algorithm using Causal Bayesian networks. *Annals of the NY Academy of Science*, 1158, p93-101, 2009
- 31. C. Yoo, G. Cooper, M. Schmidt. A Control Study to Evaluate a Computer-Based Microarray Experiment Design Recommendation System for Gene-Regulation Pathways Discovery Corresponding. *Journal of Biomedical Informatics*, 39, 126-146, 2006
- 32. **C. Yoo**, G. Cooper. An Evaluation of a System that Recommends Microarray Experiments to Perform to Discover Gene-Regulation Pathways. *Journal of Artificial Intelligence in Medicine*. 31,169-182, 2004

## **Peer Reviewed Proceedings**

- 1. **C. Yoo**, A. Saxena, K. Krupp, K. Winter, J.D. Klausner, V. Kulkarni, J. Devieux, P. Madhivanan, Using Integrated Logistic Regression and Bayesian Statistical Modeling to analyze Acceptance of Male Circumcision in Pune, MODSIM 2013, Proceeding of 20<sup>th</sup> International Congress on Modeling and Simulation, Adelaide, Australia, p2023-2028, 2013
- 2. **C. Yoo**, A. Cheeti, D. Brooten, J. Youngblut, Modified Second Degree Markov Model in Missing Data Analysis in Child and Family Functioning after Pediatric Head Trauma, MODSIM 2013, 20th International Congress on Modelling and Simulation, Modelling and Simulation Society of Australia, p2018-2022, 2013
- 3. **C. Yoo**, S.J. Oh, Combining Structure Equation Model with Bayesian Networks for predicting with high accuracy of recommending surgery for better survival in Benign prostatic hyperplasia patients, MODSIM 2013, Proceeding of 20<sup>th</sup> International Congress on Modeling and Simulation, Adelaide, Australia, p2029-2033, 2013
- 4. **C. Yoo**, M. Wilcox, Evaluation of causal Bayesian network search algorithms using simulated mesotheliomas gene expression data, MODSIM 2011, Proceeding of 19<sup>th</sup> International Congress on Modeling and Simulation, Perth, Australia, p1042-1048, 2011
- 5. **C. Yoo**, Q. Felty, Identifying gene-protein interactions in response to environmental estrogenic chemicals using Bayesian networks: its implication in the etiology of pulmonary vascular lesions, MODSIM 2011, Proceeding of 19<sup>th</sup> International Congress on Modeling and Simulation, Perth, Australia, p1056-1062, 2011
- 6. S. Yoo, **C. Yoo**, A Statistical model that calculates the life time risk of Alzheimer's disease using Bayesian Networks, MODSIM 2011, Proceeding of 19<sup>th</sup> International Congress on Modeling and Simulation, Perth, Australia, p1049-1055, 2011
- J. Gutierrez, C. Yoo, Stroke prediction in a sample of HIV/AIDS patients, MODSIM 2011, International Congress on Modelling and Simulation, Modelling and Simulation Society of Australia, 1030-1036, 2011
- 8. B. Kunkle, C. Yoo, Q. Felty, D. Roy, Identifying Gene Alterations Required for the Development of Astrocytoma, MODSIM 2011, International Congress on Modelling and Simulation, Modelling and Simulation Society of Australia, 1037-1043, 2011
- 9. **C. Yoo**, G. Cooper. A Computer-Based Experiment Design Recommendation System for Gene-Regulation Pathways Discovery. Proceedings of AMIA Symposium, p733-737, 2003
- 10. **C. Yoo**, G. Cooper. Discovery of Yeast Gene-Regulation Pathways using Local Causal Search. Proceedings of AMIA Symposium. p914-918, 2002
- 11. **C. Yoo**, V. Thorsson, G.F. Cooper. Discovery of causal relationships in a gene-regulation pathway from a mixture of experimental and observational DNA microarray data. Pacific Symposium On Biocomputing. p498-509, 2002
- 12. R. Scheines, G.F. Cooper, **C. Yoo**, T. Chu. Piecewise Linear Instrumental Variable Estimation of Causal Influence. Proceedings of Artificial Intelligence and Statistics. 286-291, 2001
- 13. G. Cooper, **C. Yoo**. Causal Discovery from a Mixture of Experimental and Observational Data. Proceedings of Uncertainty in Artificial Intelligence. p116-125, 1999

## **Chapters in Books**

1. A Deoraj, **C. Yoo**, D Roy, Integrated Bioinformatics, Biostatistics, and Molecular Epidemiologic Approaches to Study How the Environment and Genes Work Together to Affect the Development of Complex Chronic Diseases, Book Chapter in Gene-Environment Interaction Analysis: Methods in Bioinformatics and Computational Biology, Chapter 5, p151-181, CRC Press, 2016

- 2. **C. Yoo**, Discovering Gene-Gene and Gene-Environment Causal Interactions from Different Types of Genomic Data using Statistical Methods in Bioinformatics, Chapter 3, p62-81, Nova Science Publishers, 2012 (ISBN: 978-1-61942-363-3)
- 3. **C. Yoo**, Application of bioinformatics in learning gene-gene and gene-environment interactions, Book Chapter in The Environment and Cancer: Gene-Environment Interactions and Individual Susceptibility, Chapter 5, p115-138, Springer Science and Business Media, 2010 (ISBN: 978-1-44196-751-0)

## PRESENTED PAPERS, AND LECTURES

## Abstract/Presentations (presenter in underlined bold)

- 1. <u>L. San Diego</u>, S. Yoo, J. Liuzzi, C. Yoo, Analysis of Alzheimer Gene Interactions Using Bayesian Networks, FIU Undergraduate Research, FL, March, 2016 (poster presentation)
- 2. <u>H Assaggaf</u>, T Aljifri, **C.Yoo**, Q Felty, Molecular Determinants of Pulmonary Lesions, Society of Toxicology Annual Meeting, San Diego, CA, March, 2015 (poster presentation)
- 3. <u>J Liuzzi</u>, L Menzel, C. Yoo, Induction of autophagy by zinc during acute ethanol exposure, American Societies of Experimental Biology, San Diego, CA, April, 2014 (podium presentation)
- 4. MKim, C. Yoo, JS Paick, SJ Oh, Factors That Influence The Decision For Surgery In Patients With Benign Prostatic Hyperplasia: Artificial Neural Network Analysis. Society of Urodynamics, Female Pelvic Medicine and Urogenital Reconstruction, Miami, FL, February, 2014 (podium presentation)
- 5. **C. Yoo**, **D Roy**, Dynamic Stochastic and Mechanistic Model Incorporating Interplay of Multi-hits of Multiple Genetic and Epigenetic Factors and Environmental and Stochastic Factors Influencing Biological Pathways and Networks Contributing to the Susceptibility and Development of Cancer, Statistics 2013 International Conference, December, 2013 (podium presentation)
- 6. <u>C. Yoo</u>, A Saxena, K Krupp, K Winter, JD Klausner, V Kulkarni, J Devieux, P Madhivanan, Using Integrated Logistic Regression and Bayesian Statistical Modeling to analyze Acceptance of Male Circumcision in Pune, India, 20th International Congress on Modeling and Simulation (MODSIM2013), December, 2013 (podium presentation)
- 7. <u>C. Yoo</u>, A Cheeti, D Brooten, J Youngblut, Modified Second Degree Markov Model in Missing Data Analysis in Child and Family Functioning after Pediatric Head Trauma, 20th International Congress on Modeling and Simulation (MODSIM2013), December, 2013 (podium presentation)
- 8. <u>C. Yoo</u>, SJ Oh, Combining Structure Equation Model with Bayesian Networks for predicting with high accuracy of recommending surgery for better survival in Benign prostatic hyperplasia patients, 20th International Congress on Modeling and Simulation (MODSIM2013), December, 2013 (podium presentation)
- 9. <u>M Kim</u>, C. Yoo, JH Ku, JS Paick, SJ Oh. Prediction of urodynamic obstruction uring artificial neural networks model. The 65th Annual Meeting of the Korean Urological Association, Seoul, South Korea, November 2013 (podium presentation)
- 10. SJ Oh, <u>M Kim</u>, HE Lee, SY Cho, JH Ku, JS Paick, **C. Yoo**, Predictive Factors Of Urodynamic Bladder Storage Parameters In Patients With Benign Prosatic Hyperplasia: A Large Scale Crosssectional Study In A Single Institution, 20th Annual Meeting for Japanese Neurogenic Bladder Society, Shizuoka, Japan, September 2013 (podium presentation)
- 11. <u>SJ Oh</u>, J Bae, C. Yoo, SY Cho, JH Ku, SJ Jeong. High Bladder Neck Elevation Is Highly Significant For Urodynamic Bladder Outlet Obstruction In Patients With Benign Prostatic Hyperplasia, Society of Urodynamics, Las Vegas, Nevada, February, 2013 (podium presentation)

- 12. <u>C. Yoo</u>, E Brilz, Discovering Gene-gene Causal Interactions Using Scalable Causal Probabilistic Networks. South Florida Computational Biology Meeting, FIU, FL, 2013 (podium presentation)
- 13. <u>C. Yoo</u>, E Brilz, Evaluation of Local Causal Discovery Algorithm using Mixture of Observational and Experimental Data. American Statistical Association Meeting, Tempa, FL, 2011 (podium presentation)
- 14. <u>M Wilcox</u>, C. Yoo, Efficient Causal Discovery using Causal Bayesian Networks in SNP Data Analysis, American Statistical Association Meeting, Tempa, FL, 2011 (podium presentation)
- 15. <u>J. Gutierrez</u>, C. Yoo, Identifying factors associated to bad outcomes in a sample of HIV/AIDS patients seen by the neurologists using Bayesian Networks, American Statistical Association Meeting, Tempa, FL, 2011 (podium presentation)
- 16. <u>C. Yoo</u>, M Wilcox, Evaluation of causal Bayesian network search algorithms using simulated mesotheliomas gene expression data, Proceedings of International Congress on Modeling and Simulation, Perth, Australia, 2011 (podium presentation)
- 17. <u>C. Yoo</u>, Q Felty, Identifying gene-protein interactions in response to environmental estrogenic chemicals using Bayesian networks: its implication in the etiology of pulmonary vascular lesions, Proceedings of International Congress on Modeling and Simulation, Perth, Australia, 2011 (podium presentation)
- 18. <u>C. Yoo</u>, E Brilz, Evaluation of Local Causal Discovery Algorithm using Mixture of Observational and Experimental Data. American Statistical Association Meeting, Tempa, FL, 2011 (podium presentation)
- 19. <u>B Kunkle</u>, C. Yoo, D Roy, Microarray meta-analysis identifies neurodevelopmental genes potentially important in neoplastic transformation and progression in astrocytic tumors, Society of Toxicology Annual Meeting, Miami, 2010 (*Mr. Kunkle received student travel award*)
- 20. <u>M Rubens</u>, A. Batra, V. McCoy, M. Estrada, C. Yoo, Analyzing HIV/AIDS knowledge among African American and Hispanic migrant workers. American Public Health Association Annual Meeting, 2009 (*Mr. Rubens received best student poster award*)
- 21. <u>C. Yoo</u>, E Blitz. Evaluation of Local Causal Discovery Algorithm using Simulated Gene Network of Malignant Mesotheliomas in Mice. Advances in Neural Information Processing Systems, Whistler, Canada, 2006 (poster presentation)
- 22. <u>C. Yoo</u>, G Cooper. Discovery of Yeast Gene-Regulation Pathways using Local Causal Search. Proceedings of AMIA Symposium, 2002 (podium presentation)
- 23. <u>C. Yoo</u>, V Thorsson, G Cooper, podium presentation of Discovery of causal relationships in a gene-regulation pathway from a mixture of experimental and observational DNA microarray data. Pacific Symposium On Biocomputing, 2002 (podium presentation)

## **Invited Lectures**

- 1. <u>Changwon Yoo</u>, Bayesian statistical methods for gene pathways discovery in brain cancer, Department of Epidemiology and Biostatistics, Georgia Region's University, GA, 2014
- 2. <u>Changwon Yoo</u>, A new scalable Bayesian statistical methods for gene pathways discovery, Division of Biostatistics, University of Miami, FL, 2013
- 3. <u>Changwon Yoo</u>, Data analysis with mixture of data types, Biostatistics and Statistics Joint Seminar, FIU, 2013.
- 4. <u>Changwon Yoo</u>, Biostatistics and bioinformatics research using Bayesian statistics, Medicine, FIU, 2011.
- 5. <u>Changwon Yoo</u>, Bioinformatics research using probabilistic graphical models, Department of Environmental and Occupational Health, FIU, 2010.

- 6. <u>Changwon Yoo</u>, Lecture of causal discovery using probabilistic graphical models, Center for Computational Biology and Bioinformatics, Columbia University, NY, NY, 2009.
- 7. <u>Changwon Yoo</u>, Lecture of recent trend in informatics research, School of Informatics, Arizona State University, Tempe, AZ, 2008.
- 8. <u>Changwon Yoo</u>, Lecture of probabilistic graphical models, Department of Mathematics, University of Montana, Missoula, MT, 2006.

## **FUNDED RESEARCH**

| Current<br>Product Title                                 | E 1: A                                | Datas                      | Φ <b>A 4</b> *                | D-1           | D4                |
|--|---------------------------------------|----------------------------|-------------------------------|---------------|-------------------|
| Project Title  | <b>Funding Agency</b>                 | Dates                      | \$ Amount*                    | Role+         | Percent<br>Effort |
| Bayesian statistical model of Brain Cancer progression   | NIH (SC3)                             | 09/12-08/16                | \$435,000                     | PI            | ZHOLV             |
| 1 5  |                                       | Academic Yea<br>Summer     | ar                            | 7             | 13%<br>/5-100%    |
| Applications of Bayesian BPH Models                      | Seoul National<br>University Hospital | 06/15-08/16                | \$8,000                       | CoIn          | 5%                |
| <b>Completed</b>   |                                       |                            |                               |               |                   |
| Project Title  | <b>Funding Agency</b>                 | Dates                      | \$ Amount*                    | Role+         | Percent<br>Effort |
| Family functioning in trauma                             | NIH (R01)                             | 05/14-05/15                | \$2 million<br>(PI: J. Youngb | CoIn<br>lut)  |                   |
|  |                                       | Academic Yea<br>Summer     |                               | ,             | 0%<br>10%         |
| Bayesian<br>BPH Models                                   | Seoul National<br>University Hospital | 04/13-03/14                | \$2,700                       | CoIn          | 1%                |
| Substance Use and Aids<br>Research on US Latinos         | NIH<br>(P20MD002288)                  |                            | \$2 million<br>(PI:M. De La   | CoIn<br>Rosa) |                   |
| research on OB Eminos                                    | (120112002200)                        | 08/10-05/11<br>05/11-08/11 | (Tilvii De Bu                 | 11054)        | 12%<br>2%         |
| Causal Bayesian Networks<br>for Asbestos Related Disease | NIH<br>(P20RR017670)                  | 08/03-07/05                | \$107,500                     | CoPI          |                   |
|  | ,                                     | Academic Yea               | ar                            |               | 30%               |
|  |                                       | Summer                     |                               |               | 100%              |

<sup>\*</sup> Estimated, direct and indirect amount

<sup>+</sup> CoIn: Co-Investigator

#### OFFICES HELD IN PROFESSIONAL SOCIETIES

## **Editorial Board of Journals:**

- PLOS One
  - http://www.plosone.org/static/edboard (type Yoo in the text box titled Search For)
- Advances and Applications in Statistics http://www.pphmj.com/journals/adas\_editorial\_board.htm
- American Journal of Computational Mathematics http://www.scirp.org/Journal/EditorialBoard.aspx?JournalID=535#.VS00E5PGp1A
- Journal of Bioinformatics and Comparative Genomics <a href="http://www.jscholaronline.org/journals/journal-of-bioinformatics-and-comparative-genomics/editorial-board.php">http://www.jscholaronline.org/journals/journal-of-bioinformatics-and-comparative-genomics/editorial-board.php</a>
- Journal of Computational Biology and Bioinformatics http://austinpublishinggroup.com/computational-biology-bioinformatics/editorialBoard.php

## OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

## **Professional Associations and Scientific Society Membership:**

- Member of American Statistical Association
- Member of International Biometric Society/Eastern North American Region
- Member of International Society for Bayesian Analysis
- Member of The Modeling and Simulation Society of Australia and New Zealand

## **Reviewer for Professional Journals:**

- PLoS ONE
- Statistical Applications in Genetics and Molecular Biology
- Advances and Applications in Statistics
- American Journal of Computational Mathematics
- Journal of Bioinformatics and Comparative Genomics