Danh V. Nguyen
Curriculum Vitae
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CONTACT INFORMATION

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EDUCATION

Ph.D. (12.2000), Statistics, University of California, Davis (1997-2000)
M.S. (1996), University of California, Riverside (1994-1997)
B.A. (1995), University of California, Irvine (1991-1994)

POSITIONS & EMPLOYMENT

Current

Professor	Division of General Internal Medicine, Department of Medicine, UC Irvine 4.2013-present
Director	Biostatistics, Epidemiology & Research Design Unit, Institute for Clinical and Translational Science (ICTS), UC Irvine, 4.2013-present
Associated Director	Statistics and Data Management Core, UC Davis Countermeasures Against Chemical Threats (CounterACT) Research Center of Excellence. 9.2012-present. (Initial Director and PI of the Core but transitioned to Assoc. Dir. due to my move to UC Irvine)
Adjunct Professor	Department of Public Health Sciences, UC Davis, 4.2013-present

Previous

Statistics Leader/Director	Statistics and Data Management, NeuroTherapeutics Research Institute (NTRI) University of California, Davis, *9.2007-9.2012*
Director	Data Coordinating Center, Early Autism Risk Longitudinal Investigation (EARLI) Network, UC Davis, *3.2008-5.2012*
Associate Director	Biostatistics, Epidemiology & Research Design Unit, Center for Clinical and Translational Science Center (CTSC), UC Davis, *2007-3.2013*
Director	Statistics Core, Center for Children's Environmental Health (CCEH), UC Davis, *9.2006-9.2009*
Adjunct Professor	Division of Biostatistics, Department of Public Health Sciences, UC Davis, *7.2011-3.2013* (Biostatistics)
Assoc. Adjunct Professor	Division of Biostatistics, Department of Public Health Sciences, UC Davis, *7.2007-6.2011* (Biostatistics) [early promotion to full professor]
Assist. Adjunct Professor	Division of Biostatistics, Department of Public Health Sciences, UC Davis, *7.2003-6.2007* (Biostatistics) [early promotion to associate professor]

Assist. Research Professor	Department of Statistics, Texas A&M University, College Station, *7.2001-6.2003* (Statistics/Bioinformatics)
Postdoctoral Researcher	Center for Image Processing & Integrated Computing, UC Davis, *1.2001-7.2001* (Statistics/Bioinformatics)
Instructor	Department of Statistics, University of California, Davis, *Summer 1999 & Spring 2000* (Statistics)
Graduate Teaching & Research Assistant	Department of Statistics, University of California, Davis, *9.1997-7.2000* (Statistics)
Teaching Assist. Consultant	Teaching Resources Center (TRC), University of California, Davis, *1998-1999*
Statistical Consultant	California Department of Health Services, Cancer Registry, Sacramento, *6.1998-9.1998* (Survey Sampling, Type II Diabetes)
Graduate Teaching Assist.	Department of Statistics, University of California, Riverside, *9.1995-7.1996* (Statistics)
Instructor	Department of Mathematics, San Bernardino Valley College, *Spring 1997* (Statistics)
Teaching Assistant	School of Social Sciences, University of California, Irvine, *9.1993-6.1994* (Social Sciences Statistics, Statistical Computing)

HONORS
1998-1999   Teaching Consultant Fellowship Award, Teaching Resources Center, UC Davis

2007-2008   Faculty Excellence Award for Teaching, Graduate Group in Epidemiology, UC Davis (awarded by GGE students to the most outstanding faculty of the year)

2009   Paper selected by *Biometrics* Editor for presentation in special Biometrics session at the Fifth Biannual Conference of the Eastern Mediterranean Region of the International Biometrics Society ("Covariate adjusted correlation analysis with application to *FMR1* premutation female carrier data")

PROFESSIONAL AFFILIATION
Profession
Member, American Association for the Advancement of Science (2008-present)
Member, American Statistical Association (1994-2000, 2003-2005, 2011-present)
Member, Institute of Mathematical Statistics (1997-2003)

University
Member, UC Davis Clinical and Translational Science Center (2006-2013)
Member, UC Davis Cancer Center (2003-2013)
Member, UC Davis Graduate Group in Epidemiology (2006-present)

RESEARCH AREAS & INTEREST

- Applied statistics: applications in molecular biology, medicine, and epidemiology
- Bioinformatics, statistical bioinformatics
- Cancer classification: genomic approaches
- Cases series methods and analysis, case only methods (epidemiology/biostatistics methods)
- Categorical data analysis: Poisson modeling, zero-inflated and hurdle models
- Covariate adjusted regression and correlation modeling (cross-sectional and longitudinal designs)
- False discovery rate, multiple testing
- Fragile X syndrome, fragile X premutation: molecular and clinical features, mechanism
- Infection, cardiovascular outcome in dialysis patients, USRDS database, dialysis facility and hospitalization characteristics,
- Longitudinal analysis, sparse data, functional data
- Lung cancer: survival, noninvasive staging, disparities, SEER database, NIS database
- Measurement error modeling
- High-dimensional data: microarray, genomics
- Partial least squares: dimension reduction, classification/prediction

RESEARCH PUBLICATION

Patients on dialysis: cardiovascular-infection relationship, measurement error case series analysis, generalized time-varying effects modeling

1. Senturk D, Dalrymple DS[*], Mohammed SM[+], Kaysen GA, **Nguyen DV** (2013) Modeling time varying effects with generalized and unsynchronized longitudinal data. *Statistics in Medicine*, in-press. PMID: 23335196
([+]My PhD student, during CTSC [*]K12 fellowship)

2. Mohammed SM[+], Dalrymple DS[*], Senturk D, **Nguyen DV**[#] (2013) Naïve hypothesis testing for case series models with time-varying exposure onset measurement error: Inference for infection-cardiovascular risk in patients on dialysis. *Biometrics*, in-press.
([+]My PhD student, [*]during K23 fellowship, [#]senior author)

3. Mohammed SM[+], Dalrymple DS[*], Senturk D, **Nguyen DV**[#] (2013) Design considerations for case series models with exposure onset measurement error. *Statistics in Medicine*, 28, 772-786. PMID: 22911898 ([+]My PhD student, during CTSC [*]K12 fellowship, [#]senior author)
[+]*Recipient of the 2012 Statistics in Epidemiology (SIE) Young Investigator Award, SIE section of the American Statistical Association*

4. Mohammed SM[+], Senturk D, Dalrymple DS[*], **Nguyen DV**[#] (2012) Measurement error case series models with application to infection-cardiovascular risk in older patients on dialysis. *Journal of the American Statistical Association*, 107, 1310-1323. PMID: 23650442
([+]My PhD student, during CTSC [*]K12 fellowship, [#]senior author)

5. Dalrymple, L.S.[*], Mohammed, S.M.[+], Mu, Y., Johansen, K.L., Chertow, G.M., Grimes, B., Kaysen, G.A., **Nguyen, D.V.**[#] (2011) The risk of cardiovascular-related events following infection-related hospitalizations in older patients on dialysis. *Clinical Journal of the American Society of Nephrology*, 6, 1708-1713. PMID: 21566109
(during CTSC [*]K12 fellowship, [+]My PhD student, [#]senior author)

Covariate adjusted regression & correlation, longitudinal analysis

Varying coefficient models for longitudinal data

6. Senturk D, Ghosh S, **Nguyen DV** (2012) Exploratory time varying lagged regression: Modeling association of cognitive and functional trajectories with expected clinic visits in older adults. *Computational Statistics and Data Analysis*, submitted.

7. Senturk, D. and **Nguyen, D.V.** (2011) Varying coefficient models for sparse noise-contaminated longitudinal data. *Statistica Sinica*, 21, 1831-1856.

Covariate adjusted regression and correlation

8. Senturk, D., **Nguyen, D.V.**, Tassone, F., Hagerman, R.J., Carroll, R.J. Hagerman, P.J (2009) Covariate adjusted correlation analysis with application to *FMR1* premutation female carrier data. *Biometrics*, 65, 781-792. PMID: 19173699

9. **Nguyen, D.V**. and Senturk, D. (2009) Covariate-adjusted regression for longitudinal data incorporating correlation between repeated measurements. *Australian and New Zealand Journal of Statistics,* 51, 319-333.

10. Senturk, D. and **Nguyen, D.V**. (2009) Partial covariate adjusted regression. *Journal of Statistical Planning and Inference*, 139, 454-468. PMID: 20126296

11. Senturk, D. and **Nguyen, D.V**. (2009) Asymptotic properties of covariate-adjusted regression with correlated errors. *Statistics and Probability Letters,* 79, 1175-1180.

12. **Nguyen, D.V.** and Senturk, D. (2009) A consistent local linear estimator of covariate adjusted correlation. *Statistics and Probability Letters*, 79, 1684-1689. PMID: 21720454

13. **Nguyen, D.V**., Senturk, D. and Carroll, R.J. (2008) Covariate-adjusted linear mixed effects models with an application to longitudinal data. *Journal of Nonparametric Statistics*, 20, 459-481. PMID: 19266053

14. **Nguyen, D.V**. and Senturk, D. (2008) Multicovariate-adjusted regression models. *Journal of Statistical Computation and Simulation*, 78, 813-827.

15. **Nguyen, D.V**. and Senturk, D. (2007) Distortion diagnostics for covariate-adjusted regression: graphical techniques based on local linear modeling. *Journal of Data Science*, 5, 471-490.

16. Senturk, D. and **Nguyen, D.V.** (2006) Estimation in covariate-adjusted regression. *Computational Statistics and Data Analysis,* 50, 3294-3310.

Fragile X syndrome and fragile X premutation

Clinical trials and treatment focused studies

17. Leigh MJ[*], **Nguyen DV**, Mu Y, Winarni TI, Hessl DR, Rivera SM, Chechi T, Polussa J, Tassone F, Hagerman RJ (2013) A randomized double blind, placebo controlled trial of minocycline in children and adolescents with fragile X syndrome. *Journal of Developmental and Behavioral Pediatrics*, 34, 147-155. PMID: 23572165
([*]During research fellowship)

18. Berry-Kravis E, Hessl D, Rathmell B, Zarevics P, Cherubini M, Walton-Bowen K, Mu Y, **Nguyen DV**, Gonzales-Heydrich I, Wang P, Carpenter R, Bear M, Hagerman RJ (2012) Effects of STX209 (arbaclofen) on neurobehavioral function in children and adults with fragile X syndrome: A randomized, controlled, Phase 2 trial. *Science Translational Medicine*, 4, 152:127. PMID: 22993294

19. Winarni TI, Chonchaiya W, Au J, Adams E, Mu Y, **Nguyen DV**, Hagerman RJ (2012) Sertraline May Improve Language Developmental Trajectory in Young Children with Fragile X Syndrome: A Retrospective Chart Review. *Autism Research and Treatment*, 2012:104317, 8 pages. PMID: 22934167

20. Utari, A., Chonchaiya, W., Rivera, S.M., Schneider, A., Faradz, S., Ethell, I.M., **Nguyen, D.V.** and Hagerman, R.J. (2010) Side effects of minocyline treatment in patients with fragile X syndrome and exploration of outcome measures. *American Journal on Intellectual and Developmental Disabilities*, 115, 433-443. PMID: 20687826

21. Ortigas MC, Bourgeois JA, Schneider A, Olichney J, **Nguyen DV**, Cogswell JB, Hall DA, Hagerman RJ. (2010) Improving fragile X-associated tremor/ataxia syndrome symptoms with memantine and venlafaxine. *Journal of Clinical Psychopharmacology*, 30, 642-644. PMID: PMID: 20841969

22. Berry-Kravis, E., Hessl, D., Coffey, S., Hervey, C., Schneider, A., Yuhas, J., Hutchinson, J., Snape, M., Tranfaglia, M., **Nguyen, D.V.** and Hagerman, R.J. (2009) A pilot open-label single-dose trial of fenobam in adults with fragile X syndrome. *Journal of Medical Genetics*, 46, 266-271. PMID: 19126569

Studies of comorbidities and clinical symptoms

23. Au, J., Akins, R.S., Berkowitz-Sutherland, L., Tang, H.-T., Chen, Y., Boyd, A., Tassone, F., **Nguyen, D.V**., Hagerman, R.J. (2013) Prevalence and risk of migraine headaches in adult fragile X premutation carriers. *Clinical Genetics*, in-press.

24. Seritan AL, Bourgeois JA, Schneider A, Mu Y, Hagerman RJ, **Nguyen DV** (2013) Age of onset of mood and anxiety disorders in fragile X premutation carriers with and without FXTAS. *Current Psychiatry Review*, 9, 65-71.

25. Winarni, TI, Chonchaiya, W, Sumekar TA, Ashwood PA, Morales, G.M., Tassone F, **Nguyen DV**, Faradz SMH, Vandewater J, Hagerman PJ, Hagerman RJ (2012) Immune-mediated disorders among female carriers of fragile X premutation alleles. *American Journal of Medical Genetics*, 158A, 2473-2481. PMID: 22903889

26. Hamlin A, Sukharev D, Campos L, Mu Y, Tassone F, Hessl D, **Nguyen DV**, Loesch D, Hagerman RJ (2012) Hypertension in *FMR1* premutation males with and without fragile X-associated tremor/ataxia syndrome (FXTAS). *American Journal of Medical Genetics*, 158A, 1304-1309. PMID: 22528549

27. Chonchaiya, W., Au, J., Schneider, A., Hessl, D., Harris, S., Laird, M., **Nguyen, D.V.**, Mu, Y., and Tassone, F., Hagerman, R.J. (2012) Increased prevalence of seizures in boys who were probands with the *FMR1* premutation and co-morbid autism spectrum disorder. *Human Genetics*, 131, 581-589. PMID: 22001913

28. Hamlin, A., Lui, Y., **Nguyen, D.V.**, Tassone, F., Zhang, L., Hagerman, R.J. (2011) Sleep apnea in premutation carriers with and without FXTAS. *American Journal of Medical Genetics: Neuropsychiatric Genetics*, 156, 923-928. PMID: 21932336

29. Bourgeois, J.A., Seritan, A., Casillas, E.M., Hessl, D., Schneider, A., Yang, Y., Kaur, I., Cogswell, J.B., **Nguyen, D.V.** and Hagerman, R.J. (2011) Lifetime prevalence of mood and anxiety disorders in fragile X premutation carriers. *Journal of Clinical Psychiatry*, 72, 175-182. PMID: 20816038

30. Adams, P.E., Adams, J.S., **Nguyen, D.V.**, Hessl, D., Brunberg, J.A., Tassone, F., Zhang, W., Koldewyn, K., Rivera, S., Grigsby, J., Zhang, L., DeCarli, C., Hagerman, P.J., Hagerman, R.J. (2010) Psychological symptoms correlate with reduced hippocampal volume in fragile X premutation carriers, *American Journal of Medical Genetics*, 153B, 775-785. PMID: 19908235

31. Paul, R., Pessah, I.N., Gane, L., Ono, M., Hagerman, P.J., Brunberg, J.A., Tassone, F., Bourgeois, J.A., Adams, P.E., **Nguyen, D.V.**, Hagerman, R.J. (2010) Early onset of neurological symptoms in fragile X carriers exposed to neurotoxins. *Neurotoxicology*, 31, 399-402. PMID: 20466021

32. Chonchaiya, W., **Nguyen, D.V.**, Au, J., Campos, L., Lohse, K., Mu, Y., Utari, A., Wang, L., Berry-Kravis, E.M., Hervey, C., Sorensen, P., Cook, K., Tassone, F., Hagerman, R.J. (2010) Clinical involvements of daughters of men with fragile X-associated tremor ataxia syndrome. *Clinical Genetics*, 78, 38-46. PMID: 20497189

33. Chonchaiya, W., Tassone, F., Ashwood, P., Hessl, D., Schneider, A., Campos, L., **Nguyen, D.V.** and Hagerman, R.J. (2010) Autoimmune disease in mothers with the *FMR1* premutation is associated with seizures in their children with fragile X syndrome. *Human Genetics*, 128, 539-548. PMID: 2080927

34. Coffey, S.M., Cook, K., Tartaglia, N., Tassone, F., **Nguyen, D.V**., Pan, R., Bronksy, H.E., Yuhas, J., Borodyanskaya, M., Grigsby, J., Doerflinger, M., Hagerman, P.J. and Hagerman, R.J. (2008) Expanded clinical phenotype of women with the *FMR1* premutation. *American Journal of Medical Genetics*, **146A**, 1009-1016. PMID: 18348275

35. Seritan, A., **Nguyen D.V.**, Farias, S., Fakhri, D., Hinton, L., Grigsby, J., Bourgeois, J.A., Hagerman, R.J. (2008) Dementia in fragile X-associated tremor/ataxia syndrome (FXTAS): Comparison with alzheimer's disease. *American Journal of Medical Genetics: Neuropsychiatric Genetics*, 147B, 1138-1144. PMID: 18384046

36. Adams, J.S., Adams, P.E., **Nguyen, D.V.**, Brunberg, J.A., Tassone, F., Zhang, W., Koldewyn, K., Rivera, S.M., Grigsby, J., Zhang, L., DeCarli, C., Hagerman, P. and Hagerman, R. (2007) Volumetric brain changes in females with fragile X associated tremor/ataxia syndrome (FXTAS). *Neurology*, 69, 851-859.

37. Berry-Kravis, E., Goetz, C.G., Leehey, M., Hagerman, R., Zhang, L., Li, L., **Nguyen, D.V**., Hall, D., Tartaglia, N., Cogswell, J., Tassone, F. and Hagerman, P. (2007) Neuropathic features in fragile X premutation carriers. *American Journal of Medical Genetics*, 143A, 19-26. PMID: 17152065

Studies of molecular features, mechanism and new measurement methods

38. Hoeffer, C., Sanchez, E., Hagerman, R.J., Mu, Y., **Nguyen, D.V**., Wong, H., Whelen, A.M., Zukin, S., Klann, E., Tassone, F. (2012) Altered mTOR signaling and enhanced CYFIP2 expression levels in subjects with fragile X syndrome. *Gene, Brain and Behavior*, 11, 332-341. PMID: 22268788

39. Narcisa, V., Aguilar, D., **Nguyen, D.V.**, Campos, L., Brodovsky, J., White, S., Adams, P., Tassone, F., Hagerman, P.J. and Hagerman, R.J. (2011) A quantitative assessment of tremor and ataxia in female *FMR1* premutation carriers using CATSYS. *Current Gerontology and Geriatrics Research*, vol 2011, Article 484713, 1-7.

40. Garcia-Arocena, D., Yang, J.E., Brouwer, J., Tassone, F., Iwahashi, C., Berry-Kravis, E.M., Goetz, C.G., Sumis, A.M., Zhou, L., **Nguyen, D.V.**, Campos, L., Ludwig, A., Raske, C., Leehey, M., Greco, C., Willemsen, R., Hagerman, R.J., Hagerman, P.J. (2010) Fibroblast phenotype in male carriers of the *FMR1* premutation alleles. *Human Molecular Genetics,* 15, 299-312. PMID: 19864489

41. Ashwood, P., **Nguyen, D.V.**, Hessl, D., Hagerman, R.J. and Tassone, F. (2010) Plasma cytokine profiles in fragile X subjects: Is there a role for cytokines in the pathogenesis? *Brain, Behavior and Immunity*, 24, 898-902. PMID: 20102735

42. Hessl, D., **Nguyen, D. V.**, Green, C., Chavez, A., Tassone, F., Hagerman, R. J., Senturk, D., Schneider, A., Reiss, A. L., Lightbody, A. and Hall, S. (2009) A solution to limitations of intelligence testing in children with developmental disabilities: The case of fragile X syndrome. *Journal of Neurodevelopmental Disorders*, **1**, 33-45. PMID: 19865612

43. Iwahashi, C., Tassone, F., Hagerman, R.J., Yasui, D., Parrott, G., **Nguyen, D.V.**, Mayeur, G., Hagerman, P.J. (2009) A quantitative ELISA assay for the fragile X mental retardation 1 protein. *Journal of Molecular Diagnostics*, 11, 281-289. PMID: 19460937

44. Aguilar, D.C., Sigford, K.,Soontarapornchai, K., **Nguyen, D.V.**, Adams, P.E., Yuhas, J., Hagerman, P.J. and Hagerman, R.J. (2008) A quantitative assessment of tremor and ataxia in *FMR1* premutation carriers using CATSYS. *American Journal of Medical Genetics*, 146A, 629-635. PMID: 18241072

Newborn screening

45. Tassone F, Iong KP, Tong T, Lo J, Gane LW, Berry-Kravis E, Skinner D, Bailey D, **Nguyen DV**, Mu Y, Laffin J, Bailey D, Hagerman RJ, Tong T-H (2012) *FMR1* CGG allele size and prevalence ascertained through newborn screening in the United States. *Genome Medicine*, 4, 100 (p.1-13). PMID: 23259642

Lung cancer: invasive/non-invasive staging, disparities, survival

46. Launer H[*], **Nguyen DV**, Cooke DT (2013) National Perioperative Outcomes of Pulmonary Lobectomy for Cancer in the Obese Patient: A Propensity Score Matched Analysis. *Journal of Thoracic and Cardiovascular Surgery*, in-press. PMID: 23142119
([*]Undergraduate student)

47. Maximus, S[*], **Nguyen, D.V**., Mu, Y., Calhoun, R.F., Cooke, D.T. (2012) Size of Stage IIIA Primary Lung Cancers and Survival: A SEER Database Analysis. *The American Surgeon*, 78, 1232-1237. PMID: 23089441
([*]Research during residency)

48. Cooke, D.T., **Nguyen, D.V.**, Yang, Y., Chen, S.L., Yu, C. and Calhoun, R.F. (2010) Survival comparison of adenosquamous, squamous cell, and adenocarcinoma of the lung after lobectomy. *Annals of Thoracic Surgery*, 90, 943-948. PMID: 20732522

49. Suga, M.J.*, **Nguyen, D.V.**, Mohammed, S.M.[+], Brown, M., Calhoun, R., Yoneda, K., Gandara, D.R., Lara, P.N. (2010) Racial disparities on the use of invasive and non-invasive staging in patients with non-small cell lung cancer. *Journal of Thoracic Oncology*, 5, 1772-1778. PMID: 20881638
([+]My PhD student, *Research during fellowship)

50. Chee, K. G.*, **Nguyen, D. V.**, Brown, M., Gandara, D. R., Wun, T. and Lara, P. N. (2008) Positron emission tomography and improved survival in lung cancer: The Will Rogers phenomenon revisited. *Archives of Internal Medicine,* 168, 1541-1549. PMID: 18663166
(*Research during fellowship)

High-dimensional data: statistical bioinformatics, genomics and imaging

51. Yoon, J.H., **Nguyen, D.V.**, McVay, L.M., Meramo, P., Minzenberg, M.J., Ragland, J.D., Niendham, T., Solomon, M., Carter, C.S. (2012) Automated classification of fMRI during cognitive control identifies more severely disorganized subjects with schizophrenia. *Schizophrenia Research*, 135, 28-33. PMID: 22277668

52. **Nguyen, D.V.**, Senturk, D., Harvey, D.J. and Li, C.-S. (2009) Sample size and power in genomics studies. In *Computational Biology: New Research*, Russe, A. S. (ed), Nova Science Publishers, New York, p. 59-87.

53. Chen, Y.* and **Nguyen, D.V.** (2009) Identification of relevant genes using partial least squares weights based on microarray genomics expression data. In *Computational Biology: Issues and Applications in Oncology*, Pham, T. (ed), Springer, New York, p. 1-17. (*PhD committee advisee)

54. **Nguyen, D.V.**, Liu, H. and Senturk, D. (2007) A general FDR-based computational framework for sample size planning in microarray studies. In *Advanced Computational Methods for Biocomputing and Bioimaging*, Pham, T., Yan, H., and Crane, D. (eds), Nova Science Publishers, New York, p. 55-69.

55. Malgorzata, G., **Nguyen, D.V.**, Attor, S.N., Dougherty, E.R., Turner, N.D., Bancroft, L.K., Chapkin, R.S., Lupton, J.R. and Carroll, R.J. (2005) Comparing automatic and manual image processing in FLARE assay analysis for colon carcinogenesis. *Statistical Applications in Genetics and Molecular Biology*, 4, article 5 (p.1-19). PMID: 16646858

56. **Nguyen, D.V.** (2005) A unified computational framework to compare direct and sequential false discovery rate algorithms for exploratory DNA microarray studies. *Journal of Data Science*, 3, 331-352.

57. **Nguyen, D.V.** (2005) Partial least squares dimension reduction for microarray gene expression data with a censored response. *Mathematical Biosciences*, 193, 119-137. PMID: 15681279

58. **Nguyen, D.V.**, and Rocke, D.M. (2004) On partial least squares dimension reduction for microarray-based classification: a simulation study. *Computational Statistics and Data Analysis*, 46, 407-425.

59. **Nguyen, D.V.**, Wang, N. and Carroll, R.J. (2004) Evaluation of missing value estimation for microarray data. *Journal of Data Science*, 2, 347-370.

60. **Nguyen, D.V.** (2004) On estimating the proportion of true null hypotheses for false discovery rate controlling procedures in exploratory DNA microarray studies. *Computational Statistics and Data Analysis*, 47, 611-637.

61. Balagurunathan, Y., Wang, N., Dougherty E.R., **Nguyen, D.V.**, Chen, Y., Bittner, M.L., Trent, J.M. and Carroll, R.J. (2004) Noise factor analysis for cDNA microarrays. *Journal of Biomedical Optics*, 9, 663-678. PMID: 15250753

62. Braga-Neto, U., Hashimoto, R., Dougherty, E.R., **Nguyen, D.V.** and Carroll, R.J. (2004) Is cross-validation better than resubstitution for ranking genes? *Bioinformatics*, 20, 253-258. PMID: 14734317

63. Davidson, L.A., **Nguyen, D.V.**, Hokanson, R.M., Callaway, E.S., Isett, R.B., Turner, N.D., Dougherty, E.R., Wang, N., Lupton, J.R., Carroll, R.J. and Chapkin, R.S. (2004) Chemopreventive

n-3 polyunsaturated fatty acids reprogram genetic signatures during colon cancer initiation and progression in the rat. *Cancer Research*, 64, 6797-6804. PMID: 15374999

64. **Nguyen, D.V.**, Arpat, A.B., Wang, N. and Carroll, R.J. (2002) DNA microarray experiments: biological and technological aspects. *Biometrics*, 58, 701-717. PMID: 12495124

65. **Nguyen, D.V.** and Rocke, D.M. (2002) Classification of acute leukemia based on DNA microarray gene expressions using partial least squares. In *Methods of Microarray Data Analysis*, Lin, S.M, and Johnson, K.F. (eds), Kluwer, Dordrecht, p.109-124.

66. **Nguyen, D.V.** and Rocke, D.M. (2002) Tumor classification by partial least squares using microarray gene expression data. *Bioinformatics*, 18, 39-50. PMID: 11836210

67. **Nguyen, D.V.** and Rocke, D.M. (2002) Multi-class cancer classification via partial least squares using gene expression profiles. *Bioinformatics*, 18, 1216-1226. PMID: 12217913

68. **Nguyen, D.V.** and Rocke, D.M. (2002) Partial least squares proportional hazard regression for application to DNA microarray survival data. *Bioinformatics*, 18, 1625-1632. PMID: 12490447

Other collaborative research

69. Newschaffer CJ, Croen L, Fallin D, Hertz-Picciotto I, **Nguyen DV**, Lee N, Berry CA, Farzadegan H, Hess AN, Landa RJ, Levy SE, Massolo ML, Meyerer SC, Mohammed SM*, Oliver MC, Ozonoff S, Pandey J, Schroeder A, Shedd-Wise KM (2012) Infant siblings and the investigation of autism risk factors. *Journal of Neurodevelopmental Disorders*, 4:7, 1-16. PMID: 22958474
(*My PhD student)

70. Schwartzkroin, P.A., Wenzel, H.J., Lyeth, B.G., Poon, C.C., DeLance, A., Van, K.C., Campos, L. and **Nguyen, D.V.** (2010) Ketogenic diet modulation of seizure sensitivity and cell loss following fluid percussion injury. *Epilepsy Research*, 92, 74-84. PMID: 20863664

71. Kwan, J.L.*, Kluh, S., Madon, M.B., **Nguyen, D.V.**, Barker, C.M. and Reisen, W.K. (2010) Sentinel chicken seroconversions track tangential transmission of West Nile virus to humans in the Greater Los Angeles Area of California. *American Journal of Tropical Medicine and Hygiene*, 83, 1137-1145. PMID: 21036853
(*PhD committee advisee)

72. Sonneborn, D., Park, H.-Y*., Petrik, J., Kocan, A., Palkovicova, L., Trnovec, T., **Nguyen, D.V.** and Hertz-Picciotto, I. (2008) Prenatal polychlorinated biphenyl exposures in Eastern Slovakia modify effects of social factors on birthweight. *Paediatric and Perinatal Epidemiology*, 22, 202-213. PMID: 18426515
(*PhD committee advisee)

73. Sonneborn, D., Park, H.-Y*., Babinska, K., Palkovicova, L., Trnovec, T., **Nguyen, D.V.** and Hertz-Picciotto, I. (2008) Serum PCB concentrations in relation to locally produced food items in Eastern Slovakia. *Journal of Exposure Science and Environmental Epidemiology*, 18, 581-587. PMID: 18285840
(*PhD committee advisee)

74. Verro, P., Gorelick, P. and **Nguyen, D.V.** (2008) Aspirin plus dipyridamole versus aspirin for vascular events after stroke or TIA: a meta-analysis. *Stroke*, 39, 1358-1363. PMID: 18323511

75. Devaraj, S., Cheung, A.T., Jialal, I., Griffen, S.C., **Nguyen, D.**, Glaser, N., Aoki, T. (2007) Evidence of increased inflammation and microcirculatory abnormalities in patients with type 1 diabetes and their role in microvascular complications. *Diabetes*, 56, 2790-2796. PMID: 17686944

Other Publication: Conference Articles (not refereed) **and Ph.D. Dissertation**

76. **Nguyen, D.V.** (2004) A comparison of direct and sequential false discovery rate algorithms: computational experiments for exploratory DNA microarray studies. *Computing Science and Statistics*, **36**, pp. 1-15. (Volume: http://www.interfacesymposia.org/I04/index.html)

77. **Nguyen, D.V.** and Rocke, D.M. (2001) Assessing patient survival using microarray gene expression data via partial least squares proportional hazard regression. *Computing Science and Statistics*, **33**, 376-389. (Volume: http://www.interfacesymposia.org/I01/I2001HTML/index.htm)

78. **Nguyen, D.V.** (2000) *Statistical analysis of gene expression data from DNA microarrays based on partial least squares and related dimension reduction methods*. Ph.D. dissertation in Statistics, University of California, Davis, 169 pages.

Manuscripts

79. Raychaudhuri S, Mitra A, Datta A, **Nguyen D**, Chaudhari A, Raychaudhuri S (2013) In vivo quantification of joint inflammation using positron emission tomography/computed tomography in murine autoimmune arthritis, submitted.

80. Seritan AL, **Nguyen DV**, Mu Y, Tassone F, Bourgeois JA, Schneider A, Cogswell J, Cook K, Leehey M, Grigsby J, Olichney JM, Adams P, Legg W, Zhang L, Hagerman PJ, Hagerman RJ (2013) Memantine for fragile X-associated tremor/ataxia syndrome (FXTAS): A randomized, double-blind, placebo-control trial, submitted.

81. Summers S, Cogswell J, Goodrich J, Mu Y, **Nguyen DV**, Brass S, Hagerman RJ (2013) Prevalence of restless leg syndrome and sleep quality in carriers of the fragile X premutation.

82. Chitwood KL, Greiss-Hess L, Ngotran L, Harris S, **Nguyen DV**, Bodine C, Hagerman RJ (2012) AT enhancement of written expression for individuals with neurodevelopmental disorders. *Journal of Special Education*, submitted.

83. Senturk D, Dalrymple DS[*], Mu Y[+], **Nguyen DV**[#] (2013) Weighted hurdle regression method for joint modeling of cardiovascular events likelihood and rate in the U.S. dialysis population. *Statistics in Medicine*, submitted. ([+]My PhD student, [*]during K23 fellowship, [#]senior author)

84. Estes J, **Nguyen DV**, Dalrymple DS[*], Mu Y[+], Senturk D (2013) Cardiovascular Event Risk Dynamics Over Time in Older Patients on Dialysis: A Generalized Multiple-Index Varying Coefficient Model Approach.
([+]My PhD student, [*]durng K23 fellowship)

85. Dalrymple LS[*], Johansen KL, Romano PS, Chertow GM, Mu Y[+], Grimes B, Kaysen GA, **Nguyen DV**[#] (2013) Comparison of Hospitalization between For-Profit and Nonprofit Dialysis Facilities. *Submitted*.
([*]during K23 fellowship, [+]My PhD student, [#]senior author)

86. Ram S, Depriva I, Fenton-Farrell G, McVay L, **Nguyen DV**, Maselli R, Hagerman RJ (2011) Axonal neuropathy in female carriers of fragile X premutation with FXTAS. Submitted.

Selected working papers

Unpublished work

87. Brunberg JA, Adams PE, Mu Y, Seritan AL, Tasson F, Boyd A, Hagerman PJ, **Nguyen DV**, Hagerman RJ (2011) The insular sign in fragile X premutation carriers with and without FXTAS and association with cognitive function.

88. Adams E, Tassone F, Grigsby J, Hessl D, **Nguyen DV**, Hagerman RJ (2011) Assessing motor and executive functioning in asymptomatic male carriers of the fragile X premutation.

89. Sumekar TA, Adams E, Chonchaiya W, **Nguyen DV**, Tassone F, Iwahashi C, Cheung K, Hagerman PJ, Hagerman RJ (2011) Cognitive outcomes, autism and FMRP expression in fragile X premutation boys.

90. Hessl, D, Schneider, A, Iwahashi, C, Cheung, K, Rivera, SM, Tassone, F, **Nguyen DV**, Hagerman, PJ (2011) Fragile X mental retardation 1 (*FMR1*) protein level is associated with non-verbal intelligence in healthy men.

91. Chin, A., Dalrymple, L.S.*, Kaysen, G.A., **Nguyen, D.V.** (2010) Assessment of intradialytic hypertension as a risk factor in incident hemodialysis patients. (during CTSC *K12 fellowship)

92. Calhoun, R., Mayberg, S., Pevec, W., Rodriquez, V., Campos, L., Dawson, D., Young, N., **Nguyen, D.V.**, Laird, J. (2010) Endovascular stent repair of blunt traumatic thoracic aortic tears is first line of therapy for most patients - role of IVUS critical.

PATENT
U.S. Patent No. 7,062,384: "Methods for Classifying High-Dimensional Biological Data" (with D.M. Rocke), issued June 13, 2006

GRANTS/FUNDING

Current Grants/Research Support

U54   Lein, P. (PI)   07/01/12-06/30/17
NIH
$18,378,697 (total direct)
Novel Anticonvulsant and Neuroprotective Therapies for TETS and OP Intoxication
This is a proposal for a UC Davis Countermeasures Against Chemical Threats (CounterACT) Research Center of Excellence. The Statistics and Data Management Core's primary function will be to provide integrated research support in statistics and database applications. With respect to the statistical component, support and collaboration in experimental design and data analysis will be our main activities. We will also coordinate with the Training and Education Core, as well as the Administrative Core, to advice on statistical training for students as needed.
Role: Associated Director (Initial PI/Director of Statistics and Data Management Core)

UL1 TR000153-04   Cooper, D. (PI)   07/01/10-03/31/15
NIH/NCATS
Study Title: UC Irvine Institute for Clinical and Translational Science (ICTS)
UC Irvine Institute for Clinical and Translational Sciences (ICTS) is committed to transforming ideas into medical reality. Our mission is to accelerate the discovery of new treatments across the spectrum of human disease/injury. The UC Irvine ICTS functions as a local centerpiece for the national program and is dedicated to accelerating scientific discovery and medical breakthroughs to the bedside.

Role: Director of Biostatistician, Epidemiology ad Resign Design (BERD) Unit

R01   Hagerman, R.J. (PI)   04/01/12-03/31/17
NIH
$3,649,990 (total direct; renewal for yr 6-10)
Genotype-phenotype relationships in fragile X families
This study address how particular forms of molecular/cellular dysregulation relate to clinical
involvement, relating known molecular/cellular outcomes to the nature and severity of clinical
involvement.
Role: Co-investigator

R01DK092232-01   Nguyen, D.V. (PI)   09/16/11-09/15/14
NIH-NIDDK (Subcontract from UCLA; PI Senturk, D.)
$555,205 (total direct)
Effective semiparametric models for ultra-sparse, unsynchronized, imprecise data
This study aims to develop generalized semiparametric varying coefficient models to study risk factors
(e.g. infection) for outcomes (e.g., cardiovascular events) in older patients on dialysis using data from
the United States Renal Data System (USRDS).
Role: Subcontract Principal Investigator

K23 DK093584   Dalrymple, L.S. (PI)   03/01/2012-02/28/15
NIH/NIDDK
$416,100
Infection in Dialysis Patients: Risk Factors and Outcomes
This career development proposal aims to: 1) identify patient-level and center-level risk factors for
infection using the United States Renal Data System (USRDS), 2) examine how different dialysis center
policies, practices and procedures correlate with risk of infection-related hospitalization using a
nationally administered survey linked with the USRDS, and 3) describe the outcomes of infection-
related hospitalization in patients on dialysis.
Role: Mentoring team (no salary effort)

PR101054   Hagerman, R.J. (PI)   07/1/11-06/30/15
DOD
$3,018,652 (total direct)
Treatment of Fragile X Syndrome with a Neuroactive Steroid
This study is a Phase II trial to assess the safety, tolerability, and efficacy of ganaxolone, a GABAA
agonist, for the treatment of behavioral problems including anxiety and inattention in children with FXS.
Children who have the full mutation of fragile X between the ages of 6-17 years will be enrolled in this
study.
Role: Co-Investigator

R40MC22641-01-00   Hagerman, R.J. (PI)   09/1/11-08/31/14
HRSA
$898,630 (total direct)
Controlled Trial of Sertraline in Young Children with Fragile X Syndrome
This project evaluates the benefit of sertraline for treatment of early developmental delay, including
language delays, social deficits and attentional deficits, in young children with FXS.
Role: Co-investigator/Statistician

R01   Hagerman, P.J. (PI)   11/01/11-10/31/16
NIH
$1,892,701 (total direct; renewal for yr 6-10)
Expression of the fragile X gene

This proposal will further examine the expression of FMR1: 1) determine at the sequence-level the CGG-repeat lengths and complexity (i.e., size mosaicism) of expanded CGG-repeat FMR1 alleles; and 2) to define the dependence of FMR1 protein (FMRP) levels on CGG-repeat length and to identify at least some of the factors that control FMRP expression.
Role: Co-investigator

PR120921	Hagerman, P.J. (PI)	02/01/13-12/31/16

DOD
$1,124,597
Targeted Upregulation of FMRP Expression as an Approach to the Treatment of Fragile X Syndrome
Our principal objectives are the identification of therapeutic targets, and the demonstration–in both fibroblasts and neuronal cells from FXS patients–that upregulation of FMRP production reduces/eliminates the phenotypic consequences of FMRP deficiency.
Role: Co-Investigator (no salary effort, supervision of statistician)

PR120921	Hessl, D. (PI)	01/01/13-12/31/16

Merck Foundation
$996,325
Cognitive Training for Fragile X Syndrome
Role: Co-Investigator

Completed Grants/Research Support

5R01ES016443	Nguyen, D.V. (PI)	04/01/08-03/31/13

NIEHS (subcontract Drexel University; PI Newschaffer, C.J.)
$1,679,842 (subcontract total direct)
EARLI Network Data Coordinating Center (DCC)
This study will enroll a cohort of pregnant women who have previously given birth to a child with autism to determine developmental precursors of autism in the offspring.
Role: Director/PI of DCC

08-004174	Nguyen, D.V. (PI)	01/01/09-12/31/13

Autism Speaks (Subcontract Drexel University; PI Newschaffer, C.J.)
$85,542 (subcontract total direct)
Data coordination for the Collaborative Risk and Outcome Scientific Study
The objective is data sharing/collaboration between Infant Brain Imaging Study and Early Autism Risk Longitudinal Investigation Network, two NIH Autism Center of Excellence.
Role: Principal Investigator of subcontract

U54 RR024348	Hagerman, P.J. (PI)	09/30/07-08/30/12

Institute: NIH-NCRR
$21,751,234 (total direct)
Neurotherapeutics Research Consortium
The primary objective is to develop targeted treatments for neurogenetic disorders. The Consortium paradigm used is the neurodegenerative disorder, *fragile X-associated tremor/ataxia syndrome* (FXTAS) and its neurodevelopmental counterpart, *fragile X syndrome*; both disorders are linked to the fragile X mental retardation 1 (*FMR1*) gene. The consortium consists of six components (components 2 and 4 described below).
Role: Consortium Statistics Leader & Co-investigator

5RL1AG032119	Hagerman, P.J. (PI)	09/30/07-06/30/12

NIH/NIA
$798,611 (annual total direct)
Development of Targeted Therapeutic Agents for the Treatment of FXTAS (2 of 6 of NTRI)

The principal objective of this project will be the identification and assessment of various candidate therapeutic agents that might attenuate the effects of the pathogenic RNA in FXTAS. Research will also involve further study of neural cell models of FXTAS.
Role: Investigator; Lead statistician for entire consortium.

5RL1AG032115   Hagerman, R.J. (PI)   09/30/07-06/30/12
NIH/NIA
$1,208,619 (annual total direct)
Characterization and treatment of CNS abnormalities in premutation carriers (4 of 6 of NTRI)
The overall goal of this project is to develop and utilize quantitative measures of CNS dysfunction in premutation carriers as outcome measures for targeted treatment studies of FXTAS.
Role: Investigator; Lead statistician for entire consortium.

R01 HD055510   Tassone, F. (PI)   07/1/08-06/30/13
NICHD (subcontract Univ. Washington)
$464,333 (annual direct)
Newborn Screening in Fragile X
The overall objectives of the proposed research are to further refine the rapid *FMR1* DNA test, which is suitable for newborn screening from blood spots, and to utilize this test for the purpose of obtaining initial estimates of the frequency and approximate size distribution of expanded *FMR1* alleles in the general population. This project will also assess immediate and extended family members of the identified newborn with the premutation of full mutation. This grant is part of the Fragile X Research Center P30 (3P30-HD02274-35S1; M Guralnick, P.I.).
Role: Investigator

201016162   Ashwood, P. (PI)   06/01/11-05/31/13
Autism Speaks
$769,942 (total direct)
Defining the underlying biology of gastrointestinal dysfunction in autism
The proposed studies will examine the microbiome, metabolic phenotypes, immune responses, and the utilization of an animal model to investigate mechanisms of altered GI function. These studies will help to identify molecular pathophysiology of ASD that can inform translational research.
Role: Statistician

UC Davis Health System   Chaudhari, A.J. (PI)   06/01/11-05/31/12
UC Davis – Vision grant
$24,980 (total direct)
High resolution molecular optical imaging for early detection of Rheumatoid Arthritis
The overall hypothesis is that imaging biomarkers derived from TR-LIFS will accurately identify patients with early RA and hence allow rapid commencement of appropriate treatment in diagnosed populations.
Role: Collaborator (no salary effort, graduate student supervision)

S-CDHRS14   Hagerman, R.J. (PI)   02/01/10-01/31/12
National Fragile X Foundation
$99,823
A Double-Blind Randomized Controlled Cross Over Trial of Minocycline in Children with Fragile X Syndrome
This application will provide the data to organize a large NIH controlled trial of minocycline that will involve several centers in the Fragile X Clinical and Research Consortium (FXCRC). We will use a combination of experimental paradigms and standardized measures as outcomes measures in this trial and additionally assess complications related to a 3 month double-blind controlled trial of minocycline in children with FXS.
Role: Statistician (no salary effort, supervision of staff statistician & database personnel)

R01 HL105573-01A1   Kenyon, N. (PI)   12/01/11-11/30/16
NIH
$1,250,000 (total direct)
L-arginine as a therapy in severe asthma
Clinical and mechanistic study involving treatment of a subset of adult severe asthmatics; further understand the mechanisms of L-arginine metabolism and NO biology in the airways of asthmatics.
Role: Co-investigator

5UL1RR024146   Berglund, L. (PI)   07/01/11-06/30/16
NIH/NCRR
$20,000,000 (total direct; renewal for years 6-10)
UC Davis Clinical and Translational Science Center (CTSC)
The UC Davis Clinical and Translational Science Center is the academic home for innovative and collaborative medical research conducted at UC Davis and its many institutional and community partners. By cultivating a collaborative scientific environment, the center expedites the translation and integration of science from a variety of disciplines into discoveries and treatments that benefit society.
Role: Associate Director/Biostatistician (25%), Design, Biostatistics and Clinical Research Ethics Core

R01 HD036071   Hagerman, R.J. (PI)   06/15/98-03/31/12
Institute: NIH/NICHD
$3,430,676 (total direct)
Genotype-Phenotype Relationships in Fragile X Families
The proposed project represents a continuation of important and highly innovative work from one of the preeminent research groups studying Fragile X Syndrome (FXS). The application outlines a series of studies examining neurological, neuropsychiatric, and psychological problems associated with the FXS premutation in two age groups (adults and boys 6 to 18 years) and in two countries (United States and Australia).
Role: Co-investigator

R01 MH078041-01A1   Hessl, D. (PI)   06/01/07-03/31/12
Institute: NIH/NIMH
$1,783,586 (total direct)
Limbic System Function in Carriers of the Fragile X Premutation
The aim of this study is to investigate relations between molecular genetic and brain abnormalities underlying social-emotional and cognitive functioning in adult males with the fragile X premutation. The study of a relatively homogeneous single gene condition such as the fragile X premutation provides a model system for understanding links between molecular genetic, brain, and psychiatric features of more complex disorders.
Role: Co-investigator

U54 RR023529   Berglund, L. (PI)   09/30/06 - 06/30/11
NIH/NCRR
$24,800,000 (total direct)
UC Davis Clinical and Translational Science Center (CTSC)
The UC Davis Clinical and Translational Science Center is the academic home for innovative and collaborative medical research conducted at UC Davis and its many institutional and community partners. By cultivating a collaborative scientific environment, the center expedites the translation and integration of science from a variety of disciplines into discoveries and treatments that benefit society. Working in partnership with NIH and the other centers, UC Davis serves as a discovery engine that will improve medical care by applying new scientific advances to real world practice. The goal is to ensure that new approaches to care reach health care providers, underserved populations, local community organizations and other people who need treatment. (1 of 12 inaugural members of consortium)
Role: Associate Director/Biostatistician (25%), Design, Biostatistics and Clinical Research Ethics Core

P01 ES011269-06   Pessah, I. (PI)   10/01/06 - 09/30/11
NIH/NIEH
$7,568,017 (total direct)
UC Davis Center for Children Environmental Health (CCEH; yr 6-10)
The central goal of the University of California-Davis Center for Children's Environmental Health
(CCEH) is a multi-disciplinary approach to understanding the etiology of autism spectrum disorders.
Role: Director of Biostatistics Core (from 2006-2009)

UL1RR024146-04S4   Berglund, L. (PI)   10/29/09-06/30/10
NIH/NCRR (CTSC Administrative Supplement)
$325,000 (total)
A Toolbox of Outcome Measures for Targeted Treatment Trials in Children
Demonstrate feasibility, reliability, and utility of outcome measures for clinical trials of children with FXS,
including prepulse inhibition (PPI; sensorimotor gating), standardized cognitive tests, face processing
(social behavior/cognition), and visual processing (contrast detection paradigms) using infrared
eyetracking technology, continuous performance tests (attention and inhibition), and an event-related
brain activity measure (ERPs; sensory processing and cognitive functioning); Involve multiple CTSA
sites in training for the Toolbox; Develop database and data collection standards for the Toolbox.
Role Co-investigator

CTSC-Pilot grant   Yoon/Nguyen (co-PI)   05/01/08-04/30/09
CTSC-UC Davis
$15,000 (total direct)
The development of an automated system for the classification of fMRI activation patterns as a
diagnostic tool for the early detection of schizophrenia
This is a Clinical and Translational Science Center (CTSC) New Technologies Planning Grant.
Role: Co-Principal Investigator

IRG 95-125-07   Nguyen, D.V. (PI)   09/01/04-12/31/05
American Cancer Society (through UCD Cancer Center)
$15,429 (total direct)
Sample size and power analysis for cancer biomarker identification using DNA microarray
The objective of this proposal is to develop sample size method and power analysis for designing
cancer biomarker identification studies using DNA microarrays.
Role: Principal Investigator

R01 CA11118   Kung, H.-J. PI (PI)   01/01/05-12/31/10
NIH/NCI
$1,308,287 (total direct)
K-bZIP and Transcriptional Regulation of KSHV
The objective of this project is to study the following two aims to understand in details, 1) K-bZIP as a
regulator of host gene expression and 2) K-bZIP as a regulator of KSHV reactivation and replication.
Role: Statistician

R21 ES013066-01   Van Winkle, L. (PI)   04/01/04-03/31/07
Institute: NIH/NIEH
$450,475 (total direct)
Prenatal Tobacco Smoke and Gene Expression in Airways
Investigates the effect of pre and post-natal EST exposure on the expression of genes for metabolism
and detoxification enzymes in the target organ for airborne carcinogens, the lung.
Role: Co-Investigator (20%)

P30 CA93373-01   deVere White, R. (PI)   07/01/02-06/30/10

NIH/NCI
$850,000 (annual direct)
Cancer Center Support Grant P-30
The purpose is to provide support for administration, leadership and development of research programs in cancer.
Role: Biostatistician (30%)

R01 ES015359-01   Hertz-Picciotto, I. (PI)   01/01/07-12/31/11
NIH/NIEHS
$6,178,125 (total direct)
The CHARGE Study: Childhood Autism Risks from Genetics and the Environment
Role: Statistician

R01   Hertz-Picciotto, I. (PI)   09/01/05-08/31/07
Institute: NIH/NCI/EPA
Amount: $495,269 (total direct)
Early Childhood Development & PCB Exposures in Slovakia
Longitudinal examination of the relationship between early childhood development, including neurodevelopment, and environmental exposure to PCBs.
Role: Statistician

UCD/MIND   Hagerman, R.J. (PI)   07/01/07-06/31/08
Institute: MIND
Fragile X Syndrome, a Disorder of GABAergic Function: Targeted Treatment with Ganaxolone
Role: Statistician

National Fragile X Foundation   Beckett, L.A. (PI)   11/01/03-09/30/04
Amount: $20,477
Prevalence of Fragile X Syndrome
Review of prevalence of Fragile X Syndrome and assess cost projection for the disease in the U.S.A.
Role: Co-Investigator

K-08   Solomon, M. (PI)   04/01/07-03/31/12
NIH/NIMH
Cognitive Control in Autism
This is a Mentored Clinical Scientist Development Award.
Role: Biostatistician

Children's Miracle Network/UCD   Sakimura, J. (PI)   07/01/04-06/30/05
$24,462
Role: Statistician

Travel Awards
UC Davis – 2008, 2009, 2012

TEACHING ACTIVITIES

Course development (and major revision)
EPI-226: Methods for Longitudinal and Repeated Measurement Data (developed as new course)
FRS: A Leisurely Look at Genomics Research Using Microarrays (developed as new course)
EPI-204 Statistical Models, Methods and Data Analysis (major revision to focus on epidemiology)
EPI-204A Foundation of Statistical Models, Methods, and Data Analysis (developed)

Courses Taught (Instructor of record)

Course (units)	Year-Term	Enrollment*
EPI-226: *Methods for Longitudinal and Repeated Measurement Data* (UC Davis, 3 units)	2011-Fall 2010-Fall 2009-Fall	1 (G) 5 (G), 4 (A) 18 (G), 4 (A)
EPI-204: *Statistical Models, Methods and Data Analysis* (UC Davis, 4 units)	2009-Spring 2008-Spring 2007-Spring	18 (G) 9 (G) 13 (G)
EPP-298: *Applied Longitudinal Data Analysis* (UC Davis, 2 units)	2006-Winter	13 (G)
FRS-001: *A Leisurely Look at Genomics Research Using Microarrays* (UC Davis, 1 unit)	2010-Winter 2009-Fall 2008-Winter 2007-Winter 2005-Winter 2004-Winter	13 (U) 11 (U) 15 (U) 17 (U) 15 (U) 8 (U)
EPI-299: *Dissertation Research: Measurement Error in Case Series Method* (UC Davis, 12 units)	2012-Winter 2011-Fall 2011-Spring 2011-Winter 2010-Spring	1 (G) 1 (G) 1 (G) 1 (G) 1 (G)
EPI-299: *Dissertation Research: Measurement Error in Nonlinear Models* (UC Davis, 7 units)	2010-Winter	1 (G)
EPI-299: *Dissertation Research: Modeling Spatial Epidemiologic Data* (UC Davis, 3 units)	2009-Winter	1 (G)
EPI-299: *Dissertation Research: Regression Modeling for PCB Exposure Data* (UC Davis, 4 units)	2006-Spring	1(G)
Internal Medicine Residency Research Practicum (UC Davis)	2007-Winter	4 IM Residents
STA-13: *Elementary Statistics* (UC Davis, 4 units)	2004-Spring 2000-Summer	240 (U) 39 (U)
STA-32: *Basic Statistical Analysis Through Computers* (UC Davis, 4 units)	2000-Spring	58 (U)
MATH-108: *Introduction to Basic Statistics* (San Bernardino Valley College, 5 units)	1999-Spring	24 (U)

*G=graduate, U=undergraduate, A=auditors (faculty, research staff, postdocs, graduate students)

Ph.D. Students

Current: Yi (Lisa) Mu, Ph.D. program in Epidemiology. [Sept. 2012 – present]
    (Committee in charge: Danh Nguyen (Advisor), Lorien Dalrymple, Damla Senturk)

2012   Sandra M. Mohammed, Ph.D. in Epidemiology. *Measurement error case series models for assessing infection-cardiovascular risk in patients on dialysis in the United States*, UC Davis, pp. 1-219, September 2012. [April 2009 - Aug. 2012]
    (Committee in charge: Danh Nguyen (Advisor), Lorien Dalrymple, Damla Senturk)

Ph.D. Dissertation/Thesis Committee

2010   Jennifer Wilson, Ph.D. in Epidemiology, *Epidemiology and Ecology of West Nile Virus in Los Angeles, California,* UC Davis, pp. 1-135. April 2010.
    (Committee in charge: William Reisen (Advisor), Tim Carpenter, Danh Nguyen)

2008   Ying Chen, Ph.D. in <u>Statistics</u>, *Statistical Approaches for Detection of Relevant Genes and Pathways in Analysis of Gene Expression Data*, UC Davis, pp. 1-136. December 2008.
        (Committee in charge: David Rocke (Advisor), Danh Nguyen, Katherine Pollard)

2007   Hye-Youn Park, Ph.D. in <u>Epidemiology</u>, *Effects of PCB exposure on neurodevelopment in children in eastern Slovakia.* UC Davis, July 2007.
        (Committee in charge: Irva Hertz-Piciotto (Advisor), Danh Nguyen, Susan Rivera)

2006   Jingjing Ye, Ph.D. in <u>Statistics</u>. *Preprocessing and Biomarker Detection Analysis for Biological Mass Spectrometry Data*. UC Davis, pp. 1-155. December 2006.
        (Committee in charge: David Rocke (Advisor), Danh Nguyen, Wolfgang Polonik)

2004   Lei Zhou, Ph.D. in <u>Statistics</u>. *Preprocessing and Differential Expression Analysis for Affymetrix GeneChip Arrays*. UC Davis, pp. 1-126. December 2004.
        (Committee in charge: David Rocke (Advisor), Honzhe Li, Danh Nguyen)

M.S. Dissertation/Thesis Committee

2004   Sukhjinder Gill, M.S. in <u>Genetics</u>. *Software for Facilitating the Encoding and Mass Spectrometry Decoding of the "One-Bead-One-Compound" Small Molecule Combinatorial Libraries*. UC Davis, pp. 1-40. June 2004.
        (Committee in charge: Kit S Lam (Advisor), David R Cook, Danh V Nguyen)

Ph.D. Oral Examination Committee

2010   Lindsey Holmstrom, <u>Epidemiology</u>, UC Davis, June 2010
        (Committee: B Chomel (Chair), P Kass, DV Nguyen, A Perez, E Geraghty)

2010   Jiseok Kim, <u>Biomedical Engineering</u>, UC Davis, Dec. 2009 & March 2010
        (Committee: C Benham (Chair), M Facciotti, DV Nguyen, DM Rocke, L Saiz)

2009   Chelsea Eastman, <u>Epidemiology</u>, UC Davis, April 2009
        (Committee: DV Nguyen (Chair), I Gardner, S McCurdy, W Miller, K Pinkerton)

2008   Sandra Taylor, <u>Biostatistics</u>, UC Davis, March 2008
        (Committee: DM Rocke (Chair), K Kim, I Korf, DV Nguyen, K Pollard)

2008   Terra Kelley, <u>Epidemiology</u>, UC Davis, March 2008
        (Committee: E Gold (Chair), D Cassidy, B Chomel, DV Nguyen)

2008   Teresa Barcellos, <u>Epidemiology</u>, UC Davis, January 2008
        (Committee: DV Nguyen (Chair), L Butler, E Gold, A De la Torre, C Walker)

2007   Seyed Reza Jafarzadeh, <u>Epidemiology</u>, UC Davis, July & Sept. 2007
        (Committee: D Hire (Chair), J Adaska, R Atwill, W Johnson, DV Nguyen)

2007   Yolanda Hagar, <u>Biostatistics</u>, UC Davis, June 2007
        (Committee members: F Hseih (Chair), L Beckett, D Harvey, DV Nguyen)

2005   Jingjing Ye, <u>Statistics</u>, UC Davis, March 2005
        (Committee: W Polonik (Chair), R Azari, J Jiang, DV Nguyen, DM Rocke)

M.S. Oral Examination Committee

2006   Nicole Mans, <u>Epidemiology</u>, UC Davis, July 2006

(Committee: T Scott (Chair), I Gardner, DV Nguyen).

EDITORIAL SERVICES

I have reviewed research articles for the following journals and publishers:

Biostatistics/Statistics Journals
 Biometrics (4): 2003, 2004, 2007, 2009
 Biometrical Journal (1): 2005
 Biostatistics (3): 2005(2), 2006
 Communications in Statistics: Simulation and Computation (1): 2006
 Communications in Statistics: Theory and Methods (5): 2008, 2009, 2010, 2011(2)
 Computational Statistics and Data Analysis (2): 2009, 2010
 John Wiley (mathematics and statistic section of Wiley-Interscience) (1): 2002
 Journal of Biopharmaceutical Statistics (1): 2004
 Journal of Computational and Graphical Statistics (1): 2003
 Journal of Multivariate Analysis (3): 2011(2), 2012
 Journal of the American Statistical Association (3): 2010, 2012, 2013
 Journal of the Korean Statistical Society (1): 2012
 Journal of the Royal Statistical Society, Series C-Applied Statistics (1): 2006
 Journal of the Royal Statistical Society, Series B-Statistical Methodology (1): 2011
 Pakistan Journal of Statistics (1): 2012
 Scandinavian Journal of Statistics (3): 2009, 2011, 2012
 Statistica Neerlandica (1): 2011
 Statistica Sinica (1): 2011
 Statistical Applications in Genetics and Molecular Biology (1): 2005
 Statistics in Medicine (10): 2006, 2007(2), 2009(2), 2010, 2011(2), 2012(2)

Clinical/Biomedical Sciences Journals
 Biological Psychiatry (6): 2011(4), 2012(2)
 Clinical Investigation (1): 2013
 International Journal of Developmental Neuroscience (1): 2011
 Journal of Biological Chemistry (1): 2007
 Journal of Clinical Epidemiology (2): 2006(2)
 Journal of Nutritional Biochemistry (1): 2008
 Nature (2): 2012(2)
 Nature Medicine (1): 2003
 Neoplasia (4): 2004, 2006(2), 2008
 Neurotoxicology (2): 2009, 2013
 Nucleic Acids Research (1): 2004

Bioinformatics Journals
 Bioinformatics (26): 2003(3), 2004(1), 2005(7), 2006(8), 2007(3), 2008(3), 2009(1)
 BMC Bioinformatics (13): 2005(4), 2006(3), 2007(2), 2008(3), 2009(1)
 Briefings in Bioinformatics (1): 2006
 International Journal of Data Mining and Bioinformatics (1): 2006

Computer Science/Data Mining Journals
 Computational Models for Life Sciences 2007 (2): 2007(2)
 Computers in Biology and Medicine (1): 2008
 International Journal of Pattern Recognition and Artificial Intelligence (1): 2003
 Journal of Classification (2): 2009, 2011
 IEEE Transactions on Nanobioscience (1): 2011

Total reviews completed: 115
Summary by year: 2002(1), 2003(7), 2004(5), 2005(15), 2006(21), 2007(11), 2008(10), 2009(10), 2010(5), 2011(17), 2012(11), 2013(3)

Invitations to review research papers/books, which I have declined:
Statistics/Epidemiology Methods Journals
     Communications in Statistics: Theory and Methods (4)
     Computational Statistics and Data Analysis (2)
     John Wiley-book (1),
     Journal of the American Statistical Association (2)
     Lifetime Data Analysis (1)
     Open Journal of Statistics (1)
     Pearson Education/Addison-Wesley-book (1)
     Statistical Applications in Genetics and Molecular Biology (10)
     Statistics in Biosciences (1)
Bioinformatics
     Advances in Bioinformatics-Special Issue guest editor (1)
     Bioinformatics (17)
     BMC Bioinformatics (16)
     Briefings in Bioinformatics (1)
     Transactions on Computational Biology and Bioinformatics (1)
Computer Science/Data Mining/Machine Learning
     Computers and Operations Research (1),
     IEEE Transactions on Nanobioscience (1)
     IEEE Transactions on Signal Processing (1)
     International Journal Artificial Intelligence in Medicine (1)
     Journal of Machine Learning and Cybernetics (1)
Clinical/Biomedical Sciences Journals
     American Journal of Epidemiology (1)
     Biological Psychiatry (2)
     BioTechniques (1)
     BMC Cancer (1)
     Journal of Regenerative Medicine (1)
     Neoplasia (1)

Total declined to review: 71

PRESENTATIONS

2013   Joint Statistical Meetings, American Statistical Association, Montreal, Canada (August), TBA

2013   WNAR/IMS Western North American Regional Meeting of the International Biometrics Society Annual Meeting, UCLA, Los Angeles (June), TBA

2013   Pathways to Cures: Clinical Translational Research Day, University of California, Irvine (June)

2012   Joint Statistical Meetings, American Statistical Association, San Diego, CA (August)

2012   Frontiers in Biomedical Imaging seminar, UC Davis School of Medicine, Sacramento, CA (March)

2012   Institute for Clinical and Translational Science, University of California, Irvine (February)

2011   Institute for Clinical and Translational Science, University of California, Irvine (March)

2009   Joint Statistical Meetings, American Statistical Association, Washington D.C. (August)

2009   WNAR/IMS Western North American Regional Meeting of the International Biometrics Society Annual Meeting, Portland State University, Portland, Oregon (June)

2009   University of California at Davis, Sacramento, California (March)

2008   Joint Statistical Meetings, American Statistical Association, Denver, Colorado (August)

2008   Sacramento Statistical Association, Annual Institute on Research and Statistics, California State University, Sacramento, California (April)

2008   Seventh Annual Hawaii International Conference on Statistics, Mathematics and Related Fields, Honolulu, Hawaii (January)

2007   Sacramento Statistical Association, 28th Annual Institute on Research and Statistics, California State University, Sacramento, California (March)

2006   First Annual Bioinformatics Workshop, Department Statistics, Texas A&M, College Station, Texas, (October)

2006   69th Annual Meeting of the Institute of Mathematical Statistics, Rio de Janeiro, Brazil (July)

2006   WNAR/IMS Western North American Regional Meeting of the International Biometrics Society Annual Meeting, Northern Arizona University, Flagstaff, Arizona (June)

2006   Presentation to the American Cancer Society donors, UC Davis Cancer Center, Sacramento, CA (May)

2005   Joint Statistical Meetings, American Statistical Association, Minneapolis, Minnesota (August)

2005   VACETS Technical International Conference 2005, Milpitas, California (June)

2005   Penn State University, Department of Statistics, University Park, Pennsylvania (February)

2004   Interface 2004-Computational Biology and Bioinformatics: 36th Symposium on the Interface (INTERFACE'04 Conference), Baltimore, Maryland (May)

2003   Presentation to National Cancer Institute Center for Bioinformatics (NCICB): Cancer Biomedical Informatics Grid (caBIG), Cooperative Design Meeting, UC Davis Cancer Center, Sacramento, California, (August)

2003   Summer Research Conference in Statistics: Statistics in Genetics, Molecular Biology and Bioinformatics (The Southern Regional Council on Statistics and the American Statistical Association, SRCOS'03 Conference), The University of Georgia, Jekyll Island, Georgia (June)

2003   University of California at Davis, Department of Epidemiology and Preventive Medicine, Davis, California, (February)

2003   California State University at Fullerton, Department of Mathematics, Fullerton, California (February)

2003   California State University at San Francisco, Department of Mathematics, San Francisco, California, (February)

2002   IMS and International Biometric Society, Eastern North American Region (ENAR'02 Conference), Washington, D.C. (March)

2001   Texas A&M University, Bioinformatics Program, Department of Statistics, College Station, Texas, (September)

2001   Interface 2001-Frontiers in Data Mining and Bioinformatics: The 33rd Symposium on the Interface of Computing Science and Statistics (INTERFACE'01 Conference), Costa Mesa, California (June)

2001   The George Washington University, Department of Statistics, Washington D.C. (March)

2001   Texas A&M University, Bioinformatics Program, Department of Statistics, College Station, Texas (March)

2000   Critical Assessment of Techniques for MicroArray Data Mining (CAMDA'00 Conference), Duke University, Durham, North Carolina (December)

PROFESSIONAL SERVICES

National/International Conferences

Session Chair, "Genomics, Genetics and Molecular Evolution" session, Joint Statistical Meetings, San Diego, July, 2012 (TBD).

Program Organizing Committee, The 3rd Bi-Annual Workshop on Nutrition, Biostatistics and Bioinformatics, Texas A&M University, College Station, February 17-18, 2012.

Program Committee, Computational Models for Life Sciences (CMLS'07), 2007 International Symposium, Gold Coast, Queensland, Australia, December 10-12, 2007.

Session Chair, "Regression Models" session, 69th Annual Meeting of the Institute of Mathematical Statistics, Rio de Janeiro, Brazil, July 30-August 4, 2006.

Session Chair, "General Methods/Regression" session, WNAR/IMS Western Regional Meeting of the International Biometrics Society Annual Meeting, Northern Arizona University, Flagstaff, Arizona, June 27-30, 2006.

Academic Services

Research/Data Safety & Monitoring

Member, Clinical Trials Quality Assurance Committee (QAC), UC Davis Cancer Center (Oct. 2003-Sept. 2008; Ex-officio Oct. 2008-March 2009)

Member, Data and Safety Monitoring Committee/Board (DSMC/DSMB), UC Davis Cancer Center (2007-2009)

Chair, Division of Biostatistics Research Committee (2006-2008)

External Grant Reviewer, UC Davis Academic Federation Committee on Research, Innovative Development Award 2006-2007 (March-April, 2006)

Education/Teaching
Co-Chair, PhD Written Examination Committee, Graduate Group in Epidemiology
(March 2008-March 2009; June 2011-Dec 2011)

Member, Educational Policy Committee (EPC) of the Graduate Group in Epidemiology
(March 2007-2011)

Member, PhD Written Examination Committee, Graduate Group in Epidemiology
(April 2007-March 2009)

Member, Division of Biostatistics Teaching Committee, Department of Public Health Sciences
(2006-2009)

Member, School of Public Health Planning Committee: Curriculum and Student Issues working group
(March 2006)

Faculty Search Committee
Member, Faculty Search Committee for (tenured/tenure-track) Assistant/Associate Professor of Biostatistics, Division of Biostatistics, Department of Public Health Sciences (May 2010-July 2010)

Member, Faculty Search Committee for (tenured/tenure-track) Associate/Full, Genetic Epidemiology Faculty, Division of Epidemiology, Department of Public Health Sciences (Sept. 2007-2009)

Member, Faculty Search Committee for (tenured) Associate/Full Professor of Biostatistics, Division of Biostatistics, Department of Public Health Sciences (Sept. 2007-Nov. 2008)

Member, Faculty Search Committee for (tenured) Associate/Full Professor of Biostatistics, Division of Biostatistics, Department of Public Health Sciences (May 2006-June 2007)

Member, Faculty Search Committee for Assistant/Associate Adjunct Professor of Biostatistics, Division of Biostatistics, Department of Public Health Sciences (June 2006-June 2007)

Steering Committee Member

2/13 – current	Children's Hospital of Orange County – UC Irvine Child Health Research
4/13 – current	UC Irvine Institute for Clinical and Translational Science
9/12 – current	UC Davis Countermeasures Against Chemical Threats (CounterACT) Research Center of Excellence
9/07 – 9/12	NeuroTherapeutics Research Institute (NTRI), University of California, Davis
3/08 – 5/12	Director Data Coordinating Center, Early Autism Risk Longitudinal Investigation (EARLI) Network, UC Davis / Drexel University / Johns Hopkins / Kaiser Permanente

Other Services
Graduate Teaching Consultant, Teaching Resources Center, UC Davis (Aug. 1998-June 1999)

Graduate Student/Faculty Liaison and Peer Advisor, Department of Statistics, UC Davis (Aug. 1998-June 1999)

Undergraduate Peer Mentor, Student Support Services, University of California, Irvine (Fall, 1993)

ABSTRACTS

1. Senturk D, Estes J, Dalrymple L, Mu Y, **Nguyen DV** (2013) Understanding Cardiovascular Event Risk Dynamics Over Time in Older Patients on Dialysis: A Generalized Multiple-Index Varying Coefficient Model Approach. *Joint Statistical Meetings-JSM 2013,* Montreal, Canada, August 3-8.

2. Campos L, Senturk D, **Nguyen DV** (2013) A solution to the misspecification of the optimal risk period in the self-controlled case series method with application to vaccine safety. Western North American Region of the International Biometric Society/Institute of Mathematical Statistics (WNAR/IMS) Annual Meeting, University of California, Los Angeles, June 2013.

3. LS Dalrymple, KL Johansen, PS Romano, GM Chertow, Y Mu, JH Ishida, B Grimes, GA Kaysen, **DV Nguyen** (2013) Comparison of Hospitalization between For-Profit and Nonprofit Dialysis Facilities. American Society of Nephrology annual meeting, submitted.

4. Doisy ET, Wenzel HJ, **Nguyen DV**, Schwartzkroin PA (2012) Perivenricular nodular heterotopia c-fos activation in organotypic hippocampal slice cultures. American Epilepsy Society annual meeting, San Diego, CA, December 2012.

5. Senturk D, **Nguyen DV** (2012) Varying coefficient models for sparse noise-contaminated longitudinal data. 8th World Congress in Probability and Statistics, Istanbul, Turkey, July 2012.

6. Newschaffer CJ, Croen LA, Fallin MD, Hertz-Picciotto, Farzadegan H, **Nguyen D** (2012) The EARLI study as a resource for autism etiologic research. International Meeting for Autism Research (5th Annual IMFAR), Montreal, Canada, June 2012.

7. Newschaffer CJ, Croen LA, Fallin MD, Hertz-Picciotto, Farzadegan H, **Nguyen D** (2012) The EARLI study as a resource for research on autism and the environment. International Society for Environmental Epidemiology (ISEE), Columbia, South Carolina, August 2012.

8. M. J. Leigh, **D. Nguyen**, T. Winarni, A. Schneider, T. Chechi, S. M. Rivera, D. Hessl and R. J. Hagerman (2012) A Placebo-Controlled, Double-Blinded Study of Minocycline in Children with Fragile X Syndrome. International Meeting for Autism Research (5th Annual IMFAR), Montreal, Canada, June 2012.

9. Calhoun R, Mayberg S, Pevec W, Mu L, **Nguyen D**, Young N, Laird J (2012) TEVAR is superior to open thoractomy for repair of blunt aortic injury. International Society for Minimally Invasive Cardiothoracic Surgery, 2012 Annual Scientific Meeting, Los Angeles, May 30 – June 2, 2012.

10. Mohammed SM[+], Dalrymple DS[*], Senturk D, **Nguyen DV**[#] (2012) Design considerations for case series models with time-varying exposure onset measurement error. *Joint Statistical Meetings-JSM 2012,* San Diego, CA, July 28 – Aug. 2, 2012 ([+]My PhD student, CTSC [*]K12 fellow, [#]senior author)

11. Senturk, D. and **Nguyen, D.V.** (2012) Varying coefficient models for sparse noise-contaminated longitudinal data. IMS and International Biometric Society, Eastern North American Region (ENAR'12 Conference), Washington, D.C., April 2012.

12. Leigh MJ, **Nguyen DV**, Winarni TI, Hessl DR, Rivera SM, Schneider A, Chechi T, Polussa J, Hagerman RJ (2012) Minocycline as a targeted treatment for fragile X syndrome. *Society for Developmental and Behavioral Pediatrics*, January 2012.

13. Leigh MJ, **Nguyen DV**, Winarni TI, Hessl DR, Rivera SM, Hagerman RJ (2011) A double blind, placebo controlled trial of minocycline in children with fragile X syndrome. *Society for Developmental and Behavioral Pediatrics*, September 2011.

14. Mohammed S, Senturk D, Dalrymple LS, **Nguyen DV** (2011) Measurement error case series models. Western North American Region of the International Biometric Society/Institute of Mathematical Statistics (WNAR/IMS) Annual Meeting, California Polytechnic State University, San Luis Obispo, June 2011.

15. Seritan A, Bourgeois J, Schneider A, Mu Y, Hagerman RJ, **Nguyen DV** (2011) Age of Onset of Mood and Anxiety Disorders in Fragile X Premutation Carriers with and without FXTAS. *American Psychiatric Association Annual Meeting*, Honolulu, HI, May 14-18, 2011.

16. Long K, Tong T, Gane L, Sorensen P, Berry-Kravis E, **Nguyen D**, Mu Y, Skinner D, Bailey D, Hagerman R, Tassone F (2011) Newborn screening in fragile X syndrome: prevalence and allele distribution of the FMR1 gene. *American College of Medical Genetics*, 2011 Annual Clinical Genetics Meeting, Vancouver, British Columbia, Canada, March 16-20, 2011.

17. Launer H, **Nguyen DV**, Calhoun RF, Cooke DT (2011) Pulmonary Lobectomy for Cancer in Obese Patients is Equally as Safe as Lobectomy in Non-obese Patients. *American College of Surgeons,* October, 2011.

18. Maximus, S., **Nguyen, D.V**., Mu, Y., Calhoun, R.F., Cooke, D.T. (2011) Size of Primary Tumor Matter in the Clinical Outcome of N2 Positive Stage IIIA Primary Lung Cancer After Lobectomy. *World Congress on Lung Cancer, International Association of the Study of Lung Cancer*, Amsterdam, the Netherlands, July 3-7, 2011.

19. Chonchaiya, W., Tassone, F., Ashwood, P., Hessl, D., Schneider, A., Campos, L., **Nguyen, D.V.**, Au, J., Hagerman, R.J. (2010) Autoimmune disease in mothers with *FMR1* premutation is associated with seizures in their children with fragile X syndrome. 12th *International Fragile X Conference,* Detroit, Michigan, July 21-25.

20. Dalrymple, L.S., Mohammed, S.M., Mu, Y., Johansen, K.L., Chertow, G.M., Grimes, B., Kaysen, G.A., **Nguyen, D.V.** (2010) Cardiovascular events following an infectious hospitalization patients on dialysis. American Society of Nephrology annual meeting, Denver CO, Nov 16-21, 2010.

21. Seritan, A.L., Bourgeois, J., Schneider, A., **Nguyen, D.**, Hagerman, R.J. (2010) FXTAS: Psychiatric and cognitive phenotype. *12th International Fragile X Conference,* Detroit, Michigan*,* July 21-25.

22. Dalrymple, L., Chin, A., Kaysen, G., **Nguyen, D.V.** (2010) Intradialytic Hypertension and Mortality in Incident Hemodialysis Patients. 2010 *Clinical and Translational Research and Education Meeting*, Washington D.C., April 5-7.

23. Suga, J.M., **Nguyen, D.V.**, Mohammed, S.M., Brown, M., Calhoun, R., Yoneda, K., Gandara, D.R., Lara, P.N. (2010) Racial Disparities on the Use of Invasive and Noninvasive Staging in Patients with Non-Small Cell Lung Cancer (NSCLC*). American Society of Clinical Oncology*, Chicago, Illinois, June 4-8.

24. M. J. Leigh, F. Tassone, G. Mendoza-Morales, **D. Nguyen**, A. Boyd, J. Brodovsky, C. Ruiz, D. Hessl and R. Hagerman (2010) Evaluation of autism spectrum disorders in females with fragile X syndrome, *International Meeting for Autism Research*. Philadelphia, PA, May 20-22.

25. Cooke, D.T., **Nguyen, D.V.**, Ying, Y., Chen, S.L. and Calhoun, R.F. (2010) Patterns of Presentation of Primary Adenosquamous Carcinoma of the Lung Compared to Primary Adenocarcinoma and Squamous Cell Carcinoma, and Early Stage Post-Lobectomy Survival. *Society of Thoracic Surgeons 46th Annual Meeting*, Fort Lauderdale, Florida, January 25-27, 2010.

26. Randi Hagerman, James Bourgeois, Andreea Seritan, Andrea Schneider, David Hessl, Ying Yang, **Danh Nguyen** (2009) Psychopathology in premutation carriers: should this be added to fragile X-associated disorders? *14th International Workshop on Fragile X and X-Linked Mental Retardation*, Praia do Forte, Bahia, Brazil, September 15-19, 2009.

27. Senturk, D. and **Nguyen, D.V.** (2009) Covariate-Adjusted Correlation Analysis with Application to FMR1 Premutation Female Carrier Data. *Joint Statistical Meetings*, Washington D.C., August 1-6, 2009.

28. Hagerman, R.J., Berry-Kravis, E., Hessl, D., Coffey, S., Schneider, A., **Nguyen, D.V.**, Hervey, C., Hutchison, J. and Snape, M. (2008) Trial of fenobam, an mGluR5 antagonist, in adults with Fragile X Syndrome. *Journal of Intellectual Disability Research*, **52**, 814.

29. Sonneborn D, Jusko T, Park H-Y, Palkovicova L, **Nguyen D**, Kocan A, Trnovec T, Hertz-Picciotto I (2009) Longitudinal measures of PCBs and thymus size in infants. *Epidemiology*, 20, S207-S208.

30. Ashwood, P., **Nguyen, D.V.**, Hagerman, R.J. and Tassone, F. (2008) Immuno profile in fragile X and autism. *International Meeting for Autism Research (IMFAR)*, London, England, May 15-17, 2008.

31. Akins, R., Boyd, A., Coffey, S., Kaur, I., Bailey, B., Tassone, F., **Nguyen, D.V.** and Hagerman, R. (2008) High Frequency of Migraine in FMR1 Premutation Carriers. *Eleventh Annual International Fragile X Conference on Fragile*, St. Louis, Missouri, June 23-27, 2008.

32. PE Adams, JS Adams, **DV Nguyen**, D Hessl, JA Brunberg, F Tassone, W Zhang, K Koldewyn, SM Rivera, J Grigsby, L Zhang, C DeCarli, PJ Hagerman, RJ Hagerman (2008) Psychiatric problems in female fragile X premutation carriers, with involvement of the hippocampus. *Eleventh Annual International Fragile X Conference on Fragile*, St. Louis, Missouri, June 23-27, 2008.

33. Narcisa, V.L., Casillas, E.M., Adams, P., Yuhas, Y., **Nguyen, D.**, Tassone, F. and Hagerman, R. (2008) Tremor and gait ataxia in premutation females: Using CATSYS to quantitatively assess core features of FXTAS in females. *Eleventh Annual International Fragile X Conference on Fragile*, St. Louis, Missouri, June 23-27, 2008.

34. Chavez, A., Schneider, A., Green, C., **Nguyen, D.V.**, Loesch, D., Gould, E. and Hessl, D. (2008) Limitations of the standard IQ score in fragile X syndrome: A proposed solution using an individual deviation score. *Eleventh Annual International Fragile X Conference on Fragile*, St. Louis, Missouri, June 23-27, 2008.

35. Hessl, D., Schneider, A., Cordeiro, L., Tassone, F., Rivera, S., **Nguyen, D.V.**, Gane, L. and Hagerman, R. (2008) Genetic and brain correlates of psychiatric and cognitive functioning in men with the fragile X premutation. *Eleventh Annual International Fragile X Conference on Fragile*, St. Louis, Missouri, June 23-27, 2008.

36. Chee, K. G., **Nguyen, D. V.**, Brown, M., Gandara, D. R., Wun, T. and Lara, P. N. (2008) Positron emission tomography (PET) and improved survival in non-small cell lung cancer (NSCLC) patients: The Will Rogers phenomenon revisited. *Journal of Clinical Oncology,* **26** (May 20 suppl; abstr 11038).

37. Van Winkle, L.S., Sutherland, K., Edwards, P., Baker, G., Shultz, M., **Nguyen, D.V.** (2008). Sex differences in adult susceptibility to toxic challenge: Role of neonatal ETS exposures. *47th Annual Meeting of the Society of Toxicology*, Seattle, Washington, March 16-20, 2008.

38. Seritan, A., **Nguyen D.V.**, Farias, S., Fakhri, D., Hinton, L., Grigsby, J., Bourgeois, J.A., Hagerman, R.J. (2008) Dementia in fragile X-associated tremor/ataxia syndrome (FXTAS): Comparison with Alzheimer's disease. *American Journal of Geriatric Psychiatry*, **16**, A112-113.

39. Seritan, A., Fakhri, D., **Nguyen, D.**, Bourgeois, D., Hagerman, R. (2007) Neuropsychiatric Features in Fragile X-Associated Tremor/ Ataxia Syndrome (FXTAS): Comparison with Alzheimer's Disease. *Journal of Intellectual Disability Research*, **51**, 661.

40. Park, H.-Y., Hertz-Picciotto, I., Sovcikova, E., **Nguyen, D.V.**, Palkovicova, L., Kocan, A., Trnovec, T. (2007). Maternal PCB exposures in relation to 16-month Bayley scores. *International Society for Environmental Epidemiology*, Mexico City, Mexico, September 5-9, 2007.

41. Sonneborn, D., Babinska, K., Park, H.-Y., **Nguyen, D.V.**, Palkovicova, L. Kocan, A., Trnovec, T., Hertz-Picciotto (2007) Association of PCB Exposure to Food-specific Consumption and Sources in Eastern Slovakia. *Epidemiology*, **18**, S86-S87.

42. F. Widjaja, S. Chiu, J. Blank, G. Voelbel, G. Pandina, **D. Nguyen**, M. Bates, R. Hendren (2007) Psychosis in Autism. *6th International Meeting for Autism Research (IMFAR)*, Seattle, Washington, May 3-5, 2007.

43. Van Winkle, L.S., Shultz, M., Sutherland, K., Edwards, P., Baker, G., **Nguyen, D.V.** (2007). Differential gene expression by sex in airways of mice exposed to sidestream tobacco smoke. *46th Annual Meeting of the Society of Toxicology*, Charlotte, North Carolina, March 25-29, 2007.

44. Sonneborn, D., Park, H.-Y., Petrik, J., **Nguyen, D.**, Palkovicova, L. Kocan, A., Trnovec, T., Hertz-Picciotto, I. (2006) Prenatal PCB exposure and birth weight in eastern Slovakia. *Epidemiology*, **17**, S410-S11.

45. Hagerman, P, Goetz, C.G., Zhang, L., Li, L., **Nguyen, D.V.**, Tartaglia, N., Cogswell, J., Farrell, G. F., Tassone, F., Maselli, R., Hagerman, R., Berry-Kravis, E. (2006) Peripheral neuropathy in fragile X-associated tremor/ataxia syndrome. *Society for the Study of Behavioural Phenotype (9th SSBP International Symposium)* -- Neurobiology of Behavioural Phenotypes, Dublin, Rep. of Ireland, October 19-20, 2006.

46. Hagerman, R., Adams, J., Adams, P., **Nguyen, D.V.**, Hessl, D., Tassone, F., Hagerman, P. (2006) FXTAS: A Comparison of Male vs Female Involvement. *Society for the Study of Behavioural Phenotype (9th SSBP International Symposium)* -- Neurobiology of Behavioural Phenotypes, Dublin, Rep. of Ireland, October 19-20, 2006.

47. Senturk, D. and **Nguyen, D.V**. (2006) Partial covariate adjusted regression. In: Meeting Handbook: *69th Annual Meeting of the Institute of Mathematical*, Rio de Janeiro, Brazil, from July 30-August 4, 2006.

48. Senturk, D. and **Nguyen, D.V**. (2006) Covariate-adjusted general linear models for longitudinal data. In: Meeting Handbook: *WNAR/IMS Western Regional Meeting of the International Biometrics Society Annual Meeting*, Northern Arizona University, Flagstaff, Arizona, June 27-30, 2006.

49. Adams, J., Adams, P., **Nguyen, D.V.**, Brunberg, J., Tassone, F., Hagerman, P., Hagerman, R. (2006) Brain MRI volumetric abnormalities are less severe in females carriers with FXTAS than in males with FXTAS. *NFXF 10th International Fragile X Conference*, Atlanta Georgia, July 19-23.

50. Adams, P., Adams, J., **Nguyen, D.V.**, DeCarli, C., Hessl, D., Grigsby, J., Tassone, F., Hagerman, P., Hagerman, R. (2006) Women with fragile X premutation: involvement of the hippocampus. *NFXF 10th International Fragile X Conference*, Atlanta Georgia, July 19-23.

51. Mannis, G., Johnsion, J., Fitzgerald, J., Warden, C., Espinal, G., Sexton, J., McVicar, J., Troppmann, C., Ghandi, M., Gallay, B., **Nguyen, D.V.**, Perez, R. (2005) Pretransplant adipose tissue inflammation and serum markers of macrophage activation as predictors of acute rejection in renal transplantation. *American Transplant Congress*, Seattle, Washington, May 13-19, 2005.

52. Nowicki, S.T., Jacquemont, S., Li, L., **Nguyen, D.V.**, Gregg, J.P., Hagerman, R.J., and Hagerman, P.J. (2004) An approach to identify epistatic genes involved in the development of autism spectrum disorder in patients with fragile X syndrome. *Journal of Investigative Medicine*, **52**, S101.

53. Day, J., Voelbel, J., Hamstra, J., **Nguyen, D.V.**, Pandina, G., Chiu, S., Bates, M., Hendren, R.L. (2004) Affective instability in autism. *American Academy of Child and Adolescent Psychiatry (AACAP)*, 51th annual meeting, Washington D.C., October 19-24.

54. Turner, N.D., Popovic, N., Hong, M.Y., Taddeo, S.S., Davidson, L.A., Braby, L.A., Ford, J.R., Zheng, Q., **Nguyen, D.V.,** Carroll, R.J., Chapkin, R.S., and Lupton, J.R. (2004) Radiation enhances azoxymethane-induced colon cancer development. *3rd International Workshop on Space Radiation and 15th Annual NASA Space Radiation Health Investigators' Workshop*, Port Jefferson, NY, May 16-20, pp.61.

55. Williams, M.L., Carroll, R.J., and **Nguyen, D.V.** (2003) Summarizing FLARE assay images in colon carcinogenesis. *Joint Statistical Meetings-JSM 2003*, San Francisco, CA, August 3-7.

56. Dougherty, E.R., Braga-Neto, U., Hashimoto, R., Carroll, R.J**., Nguyen, D.V.**, Bittner, M.L., Trent, J.M. (2003) Is cross-validation valid for microarray-based classification? *Oncogenomics 2003-Dissecting Cancer Through Genome Research*, Phoenix, AZ, January 29-February 2.

57. Perez, R., **Nguyen, D.V.**, Watkins, S., Johnson, J., Gandhi, M., Troppmann, C., McVicar, J., and Gallay, B. (2002) Pretransplant cholesterol ester fatty acids and acute rejection in renal transplantation. *Journal of the American Society of Nephrology*, **13**, 185A.

58. Rocke, D.M., and **Nguyen, D.V.** (2002) Prediction and classification by partial least squares using gene expression data. *Joint Statistical Meetings-JSM 2002,* New York City, NY, August 11-15.