MARTHA NASON

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Biostatistics Research Branch
Division of Clinical Research
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EDUCATION:

1990-1992	Brown University, Providence, RI		
1996	University of Washington, Seattle, WA	B.S.	Psychology
1999	University of Washington, Seattle, WA	M.S.	Biostatistics
2003	University of Washington, Seattle, WA	Ph.D.	Biostatistics

PROFESSIONAL EXPERIENCE:

1995-1996 Research Assistant, Department of Psychology
University of Washington, Seattle, WA
Ran subjects for cognitive psychology experiment

1996 Research Assistant, Department of Statistics,
University of Washington, Seattle, WA
Created obstetric case study for class on decision making

1996-1998 Research Assistant, Cardiovascular Health Study,
Seattle, WA
Worked on data analysis and quality control of large multi-center observational study

1997-1999 Teaching Assistant, Department of Biostatistics,
University of Washington, Seattle, WA
Teaching Assistant for Doctorate level applied statistics classes and Masters level categorical data analysis, among others

1998-2003 Research Statistician, Talaria Inc., Seattle, WA
Worked on design of NIH-funded software for Bayesian Analysis of Clinical Trials (iBART), grant proposals and submissions, and planning, analysis and reporting to FDA of Bayesian analysis of multi-center medical device clinical trial

2003-present Mathematical Statistician, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD

HONORS:

1994-1996	Annual Dean's List, University of Washington
1995-1996	Undergraduate Merit Scholarship, University of Washington
1996	Magna Cum Laude Graduate, University of Washington
1996	Distinction in Psychology, University of Washington
1997-2000	Graduate Research Fellow, National Science Foundation

SELECTED PUBLICATIONS:

Catanzaro AT, Roederer M, Koup RA, Bailer RT, Enama ME, Nason MC, Martin JE, Rucker S, Andrews CA, Gomez PL, Mascola JR, Nabel GJ, Graham BS; The VRC 007 Study Team. "Phase I clinical evaluation of a six-plasmid multiclade HIV-1 DNA candidate vaccine." *Vaccine.* 2007 May 16;25(20):4085-92. Epub 2007 Mar 7.

Seggewiss, R; Lorin, K; Guenaga, FJ; Pittaluga, S; Mattapallil, J; Chow, CK; Koup, RA; Camphausen, K; Nason, M; Meier-Schellersheim, M; Donahue, RE; Blazar, BR; Dunbar, CE; Douek, DC. "Keratinocyte growth factor augments immune reconstitution after autologous hematopoietic progenitor cell transplantation in rhesus macaques." Blood First Edition Paper, prepublished online March 20, 2007; DOI 10.1182/blood-2006-12-065623 *Blood*, 20 March 2007, Vol. 0, No. 2007, pp. 200612065.

Nason, Martha. "Patterns of Immune Response to a Vaccine or Virus as Measured by Intracellular Cytokine Staining in Flow Cytometry: Hypothesis Generation and Comparison of Groups " *Journal of Biopharmaceutical Statistics*, Vol. 16, No. 4. (August 2006), pp. 483-498.

Read, Sarah W; Higgins, Jeanette; Metcalf, Julia A.; Stevens, Randy A.; Rupert, Adam; Nason, Martha C.; Lane, H. Clifford; Sereti, Irini "Decreased CD127 Expression on T Cells in HIV-1-infected Adults Receiving Antiretroviral Therapy With or Without Intermittent IL-2 Therapy." *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 42(5):537-544, August 15, 2006.

Betts MR, Nason MC, West SM, De Rosa SC, Migueles SA, Abraham J, Lederman MM, Benito JM, Goepfert PA, Connors M, Roederer M, Koup RA. **"**HIV nonprogressors preferentially maintain highly functional HIV-specific CD8+ T cells.".*Blood*, 2006 Jun 15;107(12):4781-9. Epub 2006 Feb 7.

Sheets, Rebecca L.; Stein, Judith; Manetz, T. Scott; Duffy, Chris; Nason, Martha; Andrews, Charla; Kong, Wing-Pui; Nabel, Gary J.; Gomez, Phillip L."Biodistribution of DNA Plasmid Vaccines against HIV-1, Ebola, Severe Acute Respiratory Syndrome, or West Nile Virus Is Similar, without Integration, despite Differing Plasmid Backbones or Gene Inserts" *Toxicological Sciences*, Volume 91, Number 2, June 2006 , pp. 610-619(10)

Higgins, J; Metcalf, JA; Stevens, RA; Baseler, M; Nason, MC; Lane, HC and Sereti, I. **"**Effects of Lymphocyte Isolation and Timing of Processing on Detection of CD127 Expression on T Cells in Human Immunodeficiency Virus-Infected Patients". *Clinical and Diagnostic Laboratory Immunology*, January 2005, p. 228-230, Vol. 12, No. 1

Nason, M., Emerson, S., and LeBlanc, M. (2004). CARTScans: A Tool for Visualizing Complex Models. *Journal of Computational and Graphical Statistics*. Vol. 13, No. 4, pp.807-825.

Madigan, D. and Nason, M. (2002). Sampling Techniques. In Handbook of Knowledge Discovery and Data Mining, Oxford University Press.

Madigan, D. and Nason, M. (2002). Statistics Perspectives on Data and Knowledge. In Handbook of Knowledge Discovery and Data Mining, Oxford University Press.

Madigan, D., Raghavan, N., DuMouchel, W., Nason, M., Posse, C., and Ridgeway, G. (2001). Likelihood-based data squashing: A modeling approach to instance construction. *Journal of Data Mining and Knowledge Discovery*.

Schaffner, A.; Madigan, D.; Hunt, E.; Graf, E.; Minstrell, J.; and Nason, M. (1996). Benchmark Lessons and the World Wide Web: Tools for Teaching Statistics. In D. Edelson and E. Domeshek (eds.) Proceedings of ICLS 96. Association for the Advancement of Computing in Education. 480-484.

RELEVANT COURSEWORK:

Applied statistics and experimental design, Design of medical studies, Theory of linear models, Special topics: dependent data, Advanced applied linear models, Advanced theory of statistical inference, Independent study

RESEARCH INTERESTS:

Methodology for HIV Vaccine Trials; Statistics for Flow Cytometry; Statistical Consulting; Exploratory Data Analysis; Visualization of complex models; Statistics Education; Analysis of Clinical Trials (both Bayesian and Frequentist); Data Mining; Classification and Regression Trees; Experimental Design; Statistical Computing.

OTHER SKILLS:

Excellent communication skills, especially for communicating statistical concepts to non-statisticians; Skilled at interpretation of effects from a variety of models; proficient in programming in S-Plus and R; familiar with SPSS, SAS, JMP, and STATA, UNIX, PCs, and Macintosh Operating Systems.

REFERENCES:

Scott Emerson, Professor and Graduate Program Coordinator, Department of Biostatistics, University of Washington, Seattle, Washington
206.543.1044 semerson@u.washington.edu

Michael LeBlanc, Research Associate Professor, Department of Biostatistics, University of Washington and Southwest Oncology Group, Fred Hutchinson Cancer Research Center, Seattle, Washington
206.667.6089 mikel@swog.fhcrc.org

David Madigan, Professor and Dean, Department of Statistics, Rutgers University, New Jersey
732.445.5302 madigan@stat.rutgers.edu