



## Nathan Tintle

Mathematics

Ph: 616-395-7272

Email: [tintle@hope.edu](mailto:tintle@hope.edu)

BS in Mathematics (2000), SUNY Albany  
MS (2003) and PhD (2004) in Statistics,  
SUNY Stony Brook

### Selected awards and grants:

WJ Kim Award for best dissertation in Applied Mathematics and Statistics, SUNY Stony Brook, 2005

### Selected recent publications:

**Tintle, N. L.**, Gordon, D., McMahon, F. J., & Finch, S. J. (2007). Using duplicate genotyped data in genetic analyses: Testing association and estimating error rates. *Statistical applications in genetics and molecular biology*, 6, Article 4.

Webb, C. P., Bromet, E. J., **Tintle, N. L.**, Schwartz, J. E., Gluzman, S. F., Kostyuchenko, S., et al. (2007). Smoking initiation and nicotine dependence symptoms in Ukraine: Findings from the Ukraine world mental health survey. *Journal of Public Health*

"The Mental Health of Clean-Up Workers 18 Years After the Chernobyl Accident" K Loganovsky, JM. Havenaar, **NL Tintle**, L Tung, R Kotov., EJ Bromet. *Psychological Medicine*. Submitted June 10, 2007.

## Theoretical Research Projects

### 1. Interdisciplinary Research in Systems Biology

This collaborative project with Drs. Aaron Best (Biology) and Matt DeJongh (Computer science) seeks to use genomic data on microbes to better understand metabolic function. My role is to utilize insights from metabolic function in the analysis of DNA Microarray data.

### 2. Research into the replicate classification sample design for genetic and diagnostic experiments

In this research we are seeking to statistically understand the cost-effectiveness of a replicate classification sample design. This research has applications to human genetic testing and other diagnostic testing situations.

## Applied Research Projects

### 1. Mental disorders in Ukraine

In this research we are seeking to provide some of the first population based evaluations of mental health disorders in a post-Soviet country, namely Ukraine. This research includes evaluating the mental health impact of accidents like the Chernobyl nuclear disaster.

### 2. Hopelessness in post-cardiac patients

In this collaborative research with Dr. Susan Dunn (Nursing) we are seeking to evaluate the impact of hopelessness in the treatment of patients post-cardiac event. My role is to assist in the development of survey tools to assess hopelessness as well as in the analysis of longitudinal data in cardiac patients during their treatment.