

## LÍDIA REJTÓ

Statistics Program, Department of FREC  
CANR, University of Delaware  
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### PROFESSIONAL STRENGTHS

#### Research:

Research concentrated on problems related to biostatistics and bioinformatics. Recent collaboration on genomics, DNA microarray analysis, theoretical aspects and computer modeling of evolution. Researched multivariate statistical analysis; introduced novel clustering methods and network modeling and identification, has research papers in projection pursuit, multivariate density estimation and regression, factor analysis, cluster analysis of binary high dimensional data sets. Also have researched on estimation procedures such as distribution and density estimation for survival analysis and for the Cox model. Held seminars and postgraduate courses related to different areas of statistics. Author or co-author of over 40 publications, her works are cited more than 190 times.

#### Applied works:

As director of the StatLab at the University of Delaware, provides statistical support for the research of faculty members, as well as masters- and doctoral-level students. She has conducted work for several agencies of the State of Delaware, and for corporate clients. Supported the research of the Departments of Oncopathology and Immunology of the National Institute of Oncology, Hungary. Analyzed several very large and complex data set, like microarray data and congenital malformations of newborns in Hungary. Developed algorithm and code for microarray analysis, network identification, modeling evolution and for Boolean factor analysis for a statistical software package. Familiar with statistical softwares R, S-Plus, BMDP, SAS, MINITAB.

### PROFESSIONAL EXPERIENCES

#### Permanent Position:

Full Professor, Director of Statistical Laboratory,  
Statistics Program, Department of Food and Resource Economics  
CANR, University of Delaware

#### Visiting Positions:

Alfréd Rényi Institute of Mathematics Hungarian Academy of Sciences, visiting senior research fellow in the Probability and Statistics research division, and in the group of Bioinformatics.

#### Consulting Positions:

Director of Statistical Laboratory of the University of Delaware,  
National Institute of Oncology (Budapest Hungary)

#### Major Clients Served:

State of Delaware Division of Fish and Wildlife,  
Department of Natural Resources and Environmental Control,  
INTERVET Inc.,  
Medical Center of Delaware,  
Office of Attorney General,  
Baylor Women's Correctional Institution,  
A.I. DuPont Institute, Lankenau Medical Center.

## COMPETITIVE RESEARCH GRANTS

2005–2006 NIH R03 AG023836-01A1

*Venous Hemodynamic Function in Older Hypertensive Adults*

\$ 151,000 Co-Pi, PI W. Farquhar

2000–2004 USDA, Animal Genomics Program (IFAFS),

*A consortium for functional mapping of growth-regulating genes in the broiler chicken*

\$1,800,000 Senior Research Associate in Bioinformatics and Biostatistics, PI L. Cogburn

2001–2004 Hungarian Science Foundation Grant T 034 555

*Mathematical Modelling of Immune Processes* Co-Investigator, PI G. Tusnády

1994 Arts and Science Research Award, University of Delaware

1991 Grant from AMS to participate in a Research Conference of AMS–IMS–SIAM

## EDUCATION

HABILITATION – IN PROBABILITY AND MATHEMATICAL STATISTICS,

Hungarian Academy of Sciences,

Dissertation Title: *Deterministic and Stochastic Censoring*

PH.D. IN PROBABILITY AND MATHEMATICAL STATISTICS,

Loránd Eötvös University, Budapest, Hungary,

Dissertation Title: *Application of Extreme Point Method in Probability Theory.*

Major Professor: Alfréd Rényi

MS IN MATHEMATICS,

Loránd Eötvös University, Budapest, Hungary,

Dissertation Title: *Representation of Positive Definite Functions.*

Major Professor: Alfréd Rényi