

## ALEXANDER V. OUTKIN

Bios Group, L.P.  
317 Paseo De Peralta  
Santa Fe, NM 87505  
E-mail: alexander.outkin@biosgroup.com  
Tel.: (505) 992-6743  
Fax: (505) 992-2229

1548 Ave de las Americas  
SantaFe, NM 87505  
Tel.: (505) 474-6650

### Ph.D. Dissertation:

Title: "Local Interactions, Learning, and Automata Networks in Games"  
Date of Completion: September 1998  
Principal Advisors: Prof. Hans H. Haller and Prof. Mark Stegeman  
Other References: Prof. Amoz Kats  
Main Fields: Game Theory, Microeconomic Theory, Applied Microeconomics, Neural Networks, Financial Markets Modelling

### Papers:

"Cooperation and Local Interactions in the Prisoners' Dilemma Game". August 1997. Accepted by the *Journal of Economic Behavior and Organization*. VPI & SU Working Paper E97-16.  
"Best Response Dynamics and Neural Networks" with Hans Haller. In revision.  
"Alliance Formation and Information Sharing by Firms" (in progress).

### Pre-Doctoral Education:

M.S. (Economics) Virginia Polytechnic Institute & State University, August 1995.

Visiting Student, The Economics Institute, University of Colorado, Summer 1993.

Ph.D. Student, Research Assistant, Department of Mechanical and Mathematical Methods in Technical and Economical Investigations at The Presidium of Russian Academy of Science. Moscow, Russia, 1991 - 1993.

M.S. (Theoretical Physics) Moscow State University. Moscow, Russia, 1991.

### Professional Experience:

#### Teaching:

Principles of Microeconomics, VPI & SU, Summer 1997.

Teaching Assistant at VPI & SU for:

Undergraduate: Principles of Microeconomics, Introductory Macroeconomics, Econometrics.

Graduate: Microeconomics, Mathematical Methods, Econometrics

## **Research:**

Scientist. Bios Group, L.P. June 1998 – Present. Financial Markets Modelling.  
Research Assistant at VPI & SU:

*Summer 1995:* Assisted in creating a homepage for the Department of Economics. Worked with Professor Richard Ashley.

*Summer 1996:* Wrote a program simulating/analyzing in a game-theoretic setting behavior of a heterogeneous population of players, where one part of agents imitates and another plays best response. Worked with Professor Mark Stegeman.

## **Related Experience:**

*Program Coordinator, Interpreter* for the Programs "Business for Russia" and "Community Connections", sponsored by USIA, administered by Legacy International, Inc., 1995 - 1998.

*Broker* at Moscow Commodity Exchange, ANS Co. Ltd., Moscow, Russia, 1992.

*Manager*, Student Association "Temp," Moscow, Russia, Summers of 1990, 1991.

## **Conference Presentations:**

"Cooperation and Local Interactions in the Prisoners' Dilemma Game," a paper presented at The Stanford Institute for Theoretical Economics Summer 1997 Workshop.

"Cooperation and Local Interactions in the Prisoners' Dilemma Game," a paper presented at the Ninth Southeastern Economic Theory and International Economics Conference, Chapel Hill, North Carolina.

"Stability of Laminar Flows of Non-Equilibrium Gas," a paper presented at The All Union Scientific Conference. "Student and Scientific Progress," Novosibirsk, Russia. 1990.

## **Awards/Other Information:**

Edmund S. Muskie Fellowship, 1993-1995.

Foreign Languages:                    Russian (native)  
    French, German, Ukrainian (basic)

## **References:**

Prof. Hans H. Haller  
Tel: (540) 231-7591  
E-mail: [haller@vt.edu](mailto:haller@vt.edu)

**Address** (the same for all three references):

Prof. Mark Stegeman  
Tel. (540) 231-4923  
E-mail: [stegeman@vt.edu](mailto:stegeman@vt.edu)

Department of Economics  
Pamplin Hall  
Virginia Polytechnic Institute and State University  
Blacksburg, VA 24060

Prof. Amoz Kats

Tel. (540) 231-6289  
E-mail: [amoz@vt.edu](mailto:amoz@vt.edu)