

# CURRICULUM VITAE

DR. DANIEL KRZYSZTOF WÓJCIK

## WORK ADDRESS:

Nencki Institute for Experimental Biology  
Department of Neurophysiology  
Laboratory of Visual System  
3 Pasteur St  
02-093 Warszawa, Poland

tel: +48 (22) 589 24 24

fax: +48 (22) 822 53 42

email: [d.wojcik@nencki.gov.pl](mailto:d.wojcik@nencki.gov.pl)

<http://www.cns.gatech.edu/~danek/>

Born: August 16th, 1973, Radom, Poland

Family status: married, one daughter

Citizenship: Polish

Fields of expertise: classical and quantum chaos, nonequilibrium statistical mechanics,  
nonlinear time series analysis, theoretical neuroscience

## EDUCATION

University of Warsaw, Philosophy Degree (with distinction) October 2000  
Thesis: "Fractal geometry in physical systems" Advisor: Prof. Marek Kuś

University of Warsaw, Masters of Science (with distinction) June 1996  
Thesis: "Reductions of Self-Dual Yang-Mills Equations" Advisor: Prof. Jacek Tafel

## SCHOLARSHIPS AND AWARDS

Conference Grant from the Foundation for Polish Science 2004  
Joseph Ford Fellowship, Georgia Institute of Technology 2002 – 2003  
Merit Scholarship of the Polish Ministry of Education 1993 – 1996

## EMPLOYMENT

Nencki Institute of Experimental Biology, Department of Neurophysiology,  
Laboratory of Visual System, Warsaw, Poland  
**Assistant Professor** November 2003 – present

Center for Nonlinear Science, School of Physics, Georgia Institute of Technology  
Atlanta, Georgia, USA: **Joseph Ford Fellow** October 2002 – October 2003

Institute for Physical Science and Technology, University of Maryland  
College Park, Maryland, USA: **Research Associate** November 2000 – September 2002

Center for Theoretical Physics, Polish Academy of Sciences,  
Warsaw, Poland: **Research Assistant** June 1996 – October 2000  
On leave November 2000 – October 2003

Department of Physics, University of Warsaw  
Warsaw, Poland: **Teaching Assistant** October 1994 – June 1996

Deutsches Elektronen Synchrotron  
Hamburg, Germany, **Summer Student** Summer 1993

#### RESEARCH FUNDING

Georgia Tech, Center for Nonlinear Science 2002–2004  
Joseph Ford Fellowship research grant, \$6000  
Polish State Committee for Scientific Research: 1999  
Junior Grant, Primary Investigator, \$2800

#### PUBLICATIONS IN REFEREED JOURNALS

- C. Jarzynski and D. **Wójcik**, *Classical and quantum fluctuation theorems for heat exchange*  
Phys. Rev. Lett. **90** (2003) 230602
- D. **Wójcik** and J. R. Dorfman, *Crossover from Diffusive to Ballistic Transport  
in Periodic Quantum Maps*, Physica D **187** (2004) 223
- D. **Wójcik** and J. R. Dorfman, *Diffusive-ballistic crossover in 1D quantum walks*,  
Phys. Rev. Lett. **92** (2004) 230602
- D. **Wójcik** and J. R. Dorfman, *Quantum multibaker maps: Extreme Quantum Regime*,  
Phys. Rev. E **66** (2002) 036110
- D. **Wójcik**, A. Nowak, M. Kuś, *Extracting dynamics of interaction*,  
Phys. Rev. E **63** (2001) 036221.
- D. **Wójcik**, I. Białynicki-Birula and K. Życzkowski, *Time Evolution of Quantum Fractals*,  
Phys. Rev. Lett. **85** (2000) 5022.
- J. Tafel and D. **Wójcik**, *Null Killing vectors and reductions of the self-duality equations*,  
Nonlinearity **11** (1998) 835–844.

#### OTHER WORKS

- D. **Wójcik** and K. Życzkowski *Fractality of certain quantum states*,  
preprint math-ph/0107030
- D. **Wójcik** and J. Cieśliński (ed.) *Proceedings of the First Non-orthodox School  
on Nonlinearity and Geometry. Luigi Bianchi Days*,  
Polish Scientific Publishers 1998, ISBN 83-01-12642-6.
- D. **Wójcik**, *Symmetries of differential equations*, Bulletin of the Student  
Nonlinear Physics Research Group, **1** (1995) 11–27. ISSN 1234-4052.

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