

# Stefan Gheorghiu

Physicist, Ph. D.

Born 12/25/1971, Romanian citizen, married.

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## Education and professional experience

- 1990-95 B.Sc./M. Sc. in Physics, Univ. of Bucharest, Romania.  
1995-00 Ph.D. in Physics, Univ. of Missouri – Columbia, USA.  
Thesis: “Standard and non-standard roughness: consequences for the Physics of self-affine surfaces”. Ph. D. advisor: dr. Peter Pfeifer  
2000-02 Research Fellow, Reactor and Catalysis Engineering, Delft University of Technology, The Netherlands. Project leader: prof. dr. ir. Marc-Olivier Coppens.  
2002-2004 Postdoctoral Researcher, Physical Chemistry and Molecular Thermodynamics, Delft University of Technology, The Netherlands. Project leader: prof. dr. ir. Marc-Olivier Coppens.  
2005-present Researcher and project specialist, International Centre of Biodynamics, Bucharest, Romania.  
2005-present Researcher and Communication Officer, Center for Complexity Studies, Bucharest, Romania.  
2006 Consultant, Alliance for Collaborative Research in Alternative Fuel Technology (NSF grant #00005011), University of Missouri.  
2006 Remote Referee, European Commission 6<sup>th</sup> Frame Program.

## Teaching record and research supervision

- 1994-95 Teaching assistant, “Fractals and Chaos”, Univ. of Bucharest.  
1995-99 Teaching assistant, College and University Physics courses (Physics 21, 22, 175, 176), Univ. of Missouri.  
1995-00 Private tutor, College and University Physics courses, Univ. of Missouri.  
1996-00 Graduate consultant and session leader, Program for Excellence in Teaching, Univ. of Missouri.  
2002-04 Created and taught the course “Matlab for Chemical Engineers”, *st4721* within the Master Program in Chemical Engineering, TUDelft (6 ECTS, numerical methods for systems of differential equations, signal processing using Fourier and wavelet methods, curve fitting and parameter estimation).  
2004 Visiting instructor for the course *ap3011* “Chaotic processes”, within the Master Program in Applied Physics, TU Delft.  
2003 Proposed and co-supervised B. Sc. project “New method for determining the bubble size distribution based on analysis of pressure fluctuations”. Student: Jurrian van der Dussen, Hogeschool Rotterdam.  
2003-2004 Proposed and co-supervised M. Sc. project “Characterization of void size distribution in bubbling and turbulent fluidized beds by pressure fluctuation and optical probe measurements”. M. Sc. Binbin Bai, TU Delft.  
2004-... Currently involved in advising two Ph. D. candidates: Vinnit Chilekar, Chemical Engineering, TU Eindhoven, and Malte Bartels, Chemical Engineering, TU Delft.