

CURRICULUM VITAE

Pawel Piotr Romanczuk

EDUCATION

- Mar 2007 - Feb 2011** **Humboldt Universität zu Berlin**, Department of Physics, **PhD-thesis** „Active Motion and Swarming – From Individual to Collective Dynamics“, *summa cum laude*, Supervisor: L. Schimansky-Geier
- Jul 2001 - Oct 2006** **Technische Universität Berlin**, Department of Theoretical Physics **Diploma in Physics** (equiv. M.Sc. passed with highest distinction)
- Oct 2004 - Mar 2005** **Freie Universität Berlin, East European Institute**
Courses in East European Politics and social science
- Apr 2004 - Aug 2004** **University of Cambridge**, Atmospheric Science Group, Visiting Scholar at the Chair of Environmental Processes (Prof. Graf)
- Sept 2001 - Jun 2002** **University of Manchester Institute of Science and Technology (UMIST) Manchester (UK)**, B.Sc. Honours Physics (1st)
- Oct 1999 - Jul 2001** **Technische Universität Berlin** “Vordiplom” in Physics (1st)
- Oct 1998 - Jul 1999** **University of Kaiserslautern, Physics-Online-Study-Program (FiPS)** during the compulsory civil service
- Aug 1991 - Jun 1998** **Herman-Hesse-Gymnasium (grammar school) Berlin**
'Abitur' - general qualification for university entrance (~A-levels)

EMPLOYMENT EXPERIENCE

- Nov 2014 - present** **P.R.I.M.E. Fellow**, Department of Evology and Evolutionary Biology, Princeton University, USA
- Oct 2014 - Nov 2014** **P.R.I.M.E. Fellow**, Thae Institute, Humboldt Univerität zu Berlin
- Apr 2014 - Oct 2014** Postdoctoral Researcher, **Leibniz Institute for Freshwater Ecology and Inland Fisheries**, Fish Biology and Ecology Department, Berlin, Germany
- Aug 2013 - Apr 2014** Postdoctoral Researcher, **Physikalisch-Technische Bundesanstalt Berlin**, Department of Mathematical Modeling and Data Analysis
- Mar 2011 - Jun 2013** Postdoctoral Researcher, **Max Planck Institute for the Physics of Complex Systems**, associated with the groups of Dr. Thilo Gross (Dynamics of Biological Networks) and Dr. Guillaume Salbreux (Physics of the Cytoskeleton)
- Nov 2006 - June 2010** **Humboldt Universität zu Berlin**, Department of Physics
Manager of the Collaborate Research Center (Sonderforschungsbereich) 555 “Complex Nonlinear Processes”
- Nov 2006 - June 2010** **Humboldt Universität zu Berlin**, Department of Physics
Teaching Assistant (Mathematics, Theoretical Physics, 1st year Lab)
- Apr 2003 - Sept 2006** **Technische Universität Berlin**, Statistics and Economic Mathematics Group
Tutor “Mathematics for Economists” (1st/ 2nd year course)
- Sept 2002/2003/2004** **International Society - University of Manchester, Manchester (UK)**
Orientation Course for international students – 1st tutor, later also team leader co-responsible for realization of the program during the course
- Feb 2003 - Mar 2003** **Deutsches Elektron-Synchrotron (DESY) Zeuthen**, Tutor at the project “Physik begreifen” (“understanding physics”), supervision of schoolchildren during experiments
- Oct 2000 - Aug 2001** **Ferdinand-Braun-Institut für Höchstfrequenztechnik Berlin**, Modeling and

- simulation of optoelectronic devices
- Aug 2000 - Dec 2000** **Wissenstransfer Berlin (TU Berlin)**, Student employee at different conferences, „Synchrotron Radiation Instrumentation 2000“, „Fifth International Conference on Urban History“, „100 Jahre Quantentheorie“
- Sept 1998 - Aug 1999** **Youth Hostel Rinteln/Germany**, Zivildienst (compulsory civil service)

AWARDS, GRANTS & PRIZES

- Jun 2014** **Postdoctoral Researchers International Mobility Expierience (P.R.I.M.E.)**
18 months fellowship, for a research project at Princeton University and Humboldt University Berlin
- Jun 2014** DFG Postdoctoral Fellowship, 16 monts fellowship for a research project at Princeton University, declined for the P.R.I.M.E. fellowship (see above)
- Apr 2014** **Mai 2014** **DAAD**, travel grant for a lecture and presentation visit to the Kavli Institute for Theoretical Physics, University of California, Santa Barbara
- Apr 2014** **Mai 2014** Kavli Institute for Theoretical Physics (KITP), University of California, Santa Barbara, invited stay during the program: *Active Matter: Cytoskeleton, Cells, Tissues and Flocks*, lodging and board grant
- July 2011** **DAAD** travel grant for the “International Conference on Industrial and Applied Mathematics”, Vancouver, Canada
- Sept 2010** **DAAD** travel grant for the conference “Models in Population Dynamics and Ecology 2010: Animal Movement, Dispersal and Spatial Ecology”, Leicester, United Kingdom
- Feb 2006** Travel grant from „**Institute of Pure and Applied Mathematics**“ for the interdisciplinary workshop „Swarming by Nature and Design“, Los Angeles, USA
- Jul 2002 - Jul 2006** Scholarship of the “**Studienstiftung des deutschen Volkes**” (“**German National Academic Foundation**”)
- Jun 2002** **University of Manchester Institute of Science and Technology**, “Departmental Programme Prize - BSc Physics (Final Year)” for outstanding examination results
- Jun 2002** **University of Manchester Institute of Science and Technology**
“Lipson Prize” for the 3rd year project, BSc Physics

ACADEMIC FUNCTIONS & ACITIVITES

- **Referee** for various journals (e.g. Phys. Rev. Lett., Phys. Rev. E, New Journal of Physics, Physica A)
 - **Co-supervisor** for Bachelor and Master theses
- Nov 2009** Co-organizer of the international workshop “**Collective Dynamics and Pattern Formation in Active Matter Systems**”
- Feb 2008** Representative of the *Stochastic Processes Group* (HU Berlin) at the preparatory meeting for the establishment of the german-brazilian International Research Group: “**Dynamical Phenomena in Complex Networks: Fundamentals and Applications**”, Sao Jose dos Campos, Brazil
- Jun 2007/ Jun 2010** Presentations for general public “Physics of Swarms” during the “**Lange Nacht der Wissenschaften**” in collaboration with Dr. U. Erdmann
- Aug 2006** Participation in the international summer school of the German National Academic Foundation - specific group topic: “**Evolutionary Psychology**”
- Oct 2004** Participation in “**The Enterprising University**”, conference on Higher Education Policy organized by the British Council in Berlin
- Aug 2003** Participation in the international summer school of the German National Academic Foundation - specific group topic: “**Evolution of language – Evolution of languages**”

- Apr 2001 - July 2006** Student representative at the Faculty Council of the "Mathematics & Science Faculty", TU Berlin
- Jan 2001 - Sept 2001** Student representative at the Institute Council of the "Institute for Solid State Physics", TU Berlin
- Jun 2000 - June 2002** Member of the student parliament of the TU Berlin
- Jan 2000 - July 2006** Member of the student representation (Fachschaftsinitiative-Physik) at the Department of Physics TU Berlin

OTHER FUCTIONS & ACTIVITIES

- 2007/2009** German coordinator of the international project "**Eurobus – EU to Ukraine**"
- Mai 2007 - Mai 2010** **President** of the non-governmental youth organization "**Forum für europäische Begegnungen (Jugend bewegt Europa) e.V.**"
- Oct 2006 - present** Licensed examiner for the **Modern Sports Karate Association International**
- Jun 2006** Participation at the conference: "**Polish and German youth non-governmental organization's cooperation with Ukraine and Kaliningrad region**"
- Apr 2006 - present** Member of the non-governmental youth organization "Forum für europäische Begegnungen (Jugend bewegt Europa) e.V."
- Jan 2003 - Apr 2010** President of the student sport club "**Modern Sports Karate Berlin e.V.**"
- Jan 2003 - Apr 2011** Regional organizer for the "**Modern Sports Karate Association International**"
- Apr 2001 - present** Trainer for karate classes

LANGUAGE SKILLS:

German (C2, native), Polish (C2, native), English (C1, fluent), Ukrainian (C1, fluent), French (A1, basic)

(Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages)

COMPUTER SKILLS:

- Operating Systems: Linux, Unix, MS Windows, Mac OS
- Word Processing/Office Software: Latex, OpenOffice, MS Office
- Scientific Software: Matlab, Mathematica, Origin
- Programming Languages: C, CUDA, Python, Perl, C++, HTML, FORTRAN, PASCAL