

Philip Gerlee - Curriculum Vitae

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Date of Birth: 22 September 1980
Nationality: Swedish

Research Interests

My main research interest is mathematical biology, in particular spatial cancer modelling. I am also interested in theoretical aspects of evolution and ecology, such as the evolution of bacterial consortia and applications of game theory.

Employment

Aug. 2010 - Present Post-doc at CancerCentrum Sahlgrenska and Mathematical Sciences,
Gothenburg University
Aug. 2008 - July 2010 Post-doc at Center for Models of Life, Niels Bohr Institute, Copenhagen

Education

June 2005 - July 2008 Ph.D in Mathematical Biology at University of Dundee, Scotland.
Thesis title “The role of the micro-environment in tumour growth and evolution”
June 2003 - Dec. 2004 M.Sc in Complex and Adaptive Systems at Chalmers University of Technology,
Göteborg, Sweden
Sep. 2000 - June 2003 B.Sc in Engineering Physics at Chalmers University of Technology, Göteborg,
Sweden

Recent presentations

- Contributed talk at ECMTB 2011 in Krakow, June 2011
- Invited speaker at Kepler Workshop on Complex Living Systems in Heidelberg, May 2011
- Invited seminar talk at Max Planck Institute for Evolutionary Biology in Plön, April 2011
- Invited talk at symposium ‘Mathematical science for biological systems’ at KVA/Mittag-Leffler Institute April 2011
- Invited seminar talk at Manchester Centre for Integrative Systems Biology, October 2010
- Contributed talk at preNordForsk workshop, Tjärnö, September 2010

- Contributed talk at AlifeXII in track “Evolutionary Dynamics”, Odense, August 2010
- Contributed talk at AlifeXII in track “Artificial Chemistry”, Odense, August 2010
- Presentation at “Spatial and Spatio-temporal Models in Science, Engineering and Medicine” workshop, Smögen, Aug 2010
- Poster presentation at FEBS conference, Gothenburg, June 2010

Awards & Funding

- Research grant from Magn. Bergvalls foundation for the project “Development of a mathematical model that predicts drug response in brain tumour cells” 2011
- Research grant from Assar Gabrielsson foundation for the project “Multi-phenotype characterisation of combinatorial drug perturbations” 2010
- Awarded postdoctoral research grant from Assar Gabrielsson foundation, 2010-2012
- Awarded postdoctoral research grant from “Svenska Sällskapet för Medicinsk Forskning” 2010 (declined)
- Travel award to attend Alife XI from Gyllenstiernska Krapperupsstiftelsen, 2008
- SMB Travel award, 2007 and 2006
- ESMTB Travel award, 2007

Professional Activities

- Member of the ‘International Society for Computational Biology, ‘International Society of Artificial Life’, ‘Society for Mathematical Biology’ and ‘European Society for Mathematical and Theoretical Biology’
- Acted as reviewer for: Cancer Research, Bioinformatics, Journal of Theoretical Biology, Mathematical Medicine & Biology and Transactions on Biomedical Engineering
- Acted as guest editor for PLoS Computational Biology
- Member of programme committee for: Artificial Life XII

Teaching experience

- Supervised bachelor thesis in Mathematics (Gotheburg University) “Morphogenesis” by Dan Dolonius and Axel Sjöstedt, 2011.
- Supervised masters thesis in Complex Systems (Chalmers) “Evolution towards optimality in Urdar – an artificial ecosystem” by Viktor Jonsson, 2011.
- Taught the course “Environmental modelling” at Mathematical Sciences (GU/Chalmers), 2011 and 2012.

- Taken the course “Teaching and Learning in Higher Education 1 (HPE101)” at University of Gothenburg

Computational Skills

- Scientific computing: Java, MATLAB, Mathematica, Maple
- Word processing: L^AT_EX, Microsoft Office

Language Skills

- Swedish: Mother tongue
- English: Write and speak fluently
- Danish: Write and speak at intermediate level
- German: Basic conversational skills
- Polish: Basic conversational skills

Referees

Docent Torbjörn Lundh

Mathematical Sciences

Chalmers

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