Atiyo Ghosh Langebrug 2a Apt 2 Leiden, 2311 TK The Netherlands

Monday October 24, 2011

Dear Dr. Swanson,

I write to ask that you consider me to fill the position you have available for a postdoctoral researcher.

I am currently entering the last stages of my Ph. D. in Mathematical Biology at Leiden University, using stochastic models in ecological contexts. Previously I completed my Master's and Bachelor's degrees in Physics from the University of Cambridge, which required me to be well-versed with partial differential equations. In addition, I have programming experience in several programming languages, and have also been working in an interdisciplinary environment for the past four years. I hope these experiences would stand me in good stead for your project.

My Ph. D. is still ongoing. I hope to submit my thesis in the middle of January, so, should I be accepted, I would only be able to start after that.

Please find attached a copy of my C.V., as well as contact details for three referees.

Thanks for your time.

Yours sincerely,

Atiyo Ghosh

Referees for Atiyo Ghosh

Dr Patsy Haccou (supervisor) Associate Professor Department of Environmental Sciences, Leiden University, Einsteinweg 2, Leiden, 2333 CC, The Netherlands

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Dr Hans Metz (promotor) Professor Institute of Biology, Leiden University, Boergoensevliet 106, Rotterdam, 3082 KW, The Netherlands

Tel: +31104297995 Email: j.a.j.metz@biology.leidenuniv.nl

Dr Tom J de Jong Associate professor Institute of Biology, Leiden University Sylviusweg 72 PO BOX 9505 2300 RA Leiden, The Netherlands

Tel: +31715275118 Email: t.j.de.jong@biology.leidenuniv.nl

Contact Information	Department of Environmental Sciences (CML) Einsteinweg 2, Leiden 2333 CC, The Netherlands	office: +31 71527 mobile: +31 62553 e-mail: a.ghosh@biology.leidenur	7474 84889 niv.nl
Research Interests	Stochastic population dynamics. Branching processes.		
EDUCATION	 Leiden University, Leiden, The Netherlands 2008 – present Ph.D. in Mathematical Biology Expected graduation date: March 2012 Supervisor: Patsy Haccou Promotor: Hans Metz Thesis: Measuring Introgression Risks with Hazard Rates (Title TBC) Relevant courses: Theoretical Ecology, Measure Theoretic Probability, Stochastic Processes Workshops: The Mathematics of Invasions in Ecology and Epidemiology, Banff, Canada, 2009. (attendee). Trangenes Going Wild? Risk Assessment of Transgene Introgression from Crops in Wild Relatives, Leiden, the Netherlands, 2011 (co-organizer). 		
	University of Cambridge,2003 - 2007Homerton College, Cambridge, United Kingdom2003 - 2007B.A.(Hons), M.Sci.(Hons) in Natural Sciences (Physics)2003 - 2007• Relevant courses: Evolution and Behaviour, Biophysics, Information Theory1000 - 2007• Master's project at the surface physics group on deveoping a detector to count helium ions		
	 Harrow School, London, United Kingdom 5 As in A-levels (Mathematics, Further Mathematics) 	1997-200 Biology, Chemisty, Physics).)2
Publications	Ghosh, A., Serra, M.C., Haccou, P., "Hazard rates of introgression in random environments" In prep. for submission to Theor. Popul. Biol		
	Ghosh, A., Meirmans, P.G., Haccou, P., "Hazard rates as a measure of invasion risk across multiple modeling frameworks" In prep. for submission to Proc. R. Soc. B		
	Ghosh, A., Serra, M.C., Haccou, P., "Quantifying time-inhomogeneous stochastic introgression processes with hazard rates", <i>Theor. Popul. Biol</i> , Submitted		
	Ghosh, A., Haccou, P., "Quantifying stochastic introgression processes with hazard rates", <i>Theor Popul Biol.</i> , Vol. 77, No. 3, pp. 171-180, 2010.		
Selected Presentations	Mathematical Models in Ecology and Evolution, Groning Quantifying Introgression Risks in Random Environments	en, The Netherlands August s with Hazard Rates	2011
	Netherlands Annual Meeting of Theoretical Biologists, Sc Quantifying Introgression Risks with Hazard Rates in Ra	hoorl, The Netherlands May ndom Environments	2011
	Workshop on Branching Processes and Derived Processes Hazard Rates of Introgression in Random Environments	, Luminy, France April	2011
	Netherlands Annual Ecology Meeting, Lunteren, The Net Quantifying Stochastic Introgression Risks with Hazard H	herlands February Rates	2011
	Institute of Mathematical Statistics, 73rd Annual Meeting Quantifying Introgression Risks by Hazard Rates	g, Gothenburg, Sweden August	2010
	Netherlands Annual Meeting of Theoretical Biologists, Sc Quantifying Introgression Risks with Hazard Rates	hoorl, The Netherlands April	2010
	Netherlands Annual Ecology Meeting, Lunteren, The NetherlandsFebruary 2010Quantifying Stochastic Introgression ProcessesFebruary 2010		
	Meeting on Branching Processes and Applications, Braga Branching Processes, Hazard Rates and Introgression	, Portugal April	1 2009

Teaching Experience

Leiden University, Leiden, The Netherlands

Teaching assistant

Organized examples classes and tutoring for a course in mathematical modeling for undergraduate biologists, based on material from Ellner and Guckenheimer's "Dynamic Models in Biology".

Supervisor

Supervised Marije Stoops's Bachelor's Project which used branching processes as a means to predict the risk of invasion of genes from wild rice into their weedy relatives.

PROGRAMMING R, Matlab, Fortran, LATEX

Languages Referees

Hans Metz

Professor Leiden University Leiden, The Netherlands phone: available on request e-mail: available on request

Tom de Jong

Associate Professor Leiden University Leiden, The Netherlands phone: available on request e-mail: available on request Patsy Haccou

Associate Professor Leiden University Leiden, The Netherlands phone: available on request e-mail: available on request

Klaas Vrieling

Associate Professor Leiden University Leiden, The Netherlands phone: available on request e-mail: available on request