Chaitanya S. Gokhale

Post-Doctoral Researcher, Research Group for Evolutionary Theory,
Max Planck Institute for Evolutionary Biology

Personal Data

Citizenship:	Indian
Place and Date of Birth:	Pune, Maharashtra, India | 17 June 1984
Current Address:	Eütiner Str, 23, Plön 24306, Germany
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Awards & Fundings

March 2013	BMC Ecology: Winner in Theoretical Ecology Image competition.
August 2012	Grant from the Deutsche Forschungsgemeinschaft (DFG) for Schwerpunktprogramme 1590 "Probabilistic Structures in Evolution".
June 2012	Otto Hahn Medal from the Max Planck Society

Education

March 2011 — Doctorate in Natural Sciences,
Christian Albrechts University, Kiel
Max Planck Institute for Evolutionary Biology, Plön
Thesis: "Evolutionary dynamics on multi-dimensional fitness landscapes"
Advisor: Dr. Arne Traulsen
Grade: Summa cum laude

January 2008 — Master of Science in Bioinformatics
Sikkim Manipal University of Health Medical and Technological Sciences
Thesis: "*Ab initio* calculations on the HGPRT active site and the analysis of select mutations"
Advisor: Dr. Mrinalini Puranik
Score: 187/200

July 2005 — Bachelor of Science in Zoology and Biotechnology
Fergusson College, Pune University

April 2002 — Higher Secondary School Certificate
Maharashtra Institute of Technology

June 2000 — Secondary School Certificate
Dr. Shamarao Kalmadi High School

Academic Experience

July-August 2013	Max Planck Institute for Anthropology, Leipzig, Germany
February-March 2013	Kavli Institute for Theoretical Physics, Santa Barbara, U.S.A.
June 2010	Santa fe Institute, Santa Fe, U.S.A.
March-May 2007	National centre For Biological Sciences, Bangalore, India
August 2006	Center for cellular and molecular biology, Hyderabad, India
March-April 2005	Haffkine Bio-Pharmaceutical Corporation Ltd, Bangalore, India

Reviewing

Journals:	Evolution, Journal of Theoretical Biology, Journal of Mathematical Biology, Mathematical Biosciences, Proceedings of the National Academy of Sciences, U.S.A. Proceedings of the Royal Society B: Biological Sciences, PLoS Computational Biology PLoS One, Theoretical Population Biology
Committee:	Santa Fe Institute's Complex System Summer School 2011

Languages

Mother tongue:	Marathi
Fluent:	English, Hindi
Intermediate:	German

References

Prof. Dr. Arne Traulsen (traulsen@evolbio.mpg.de)
Max-Planck-Institut for Evolutionary Biology
August-Thienemann-Str.2 D-24306 Plön, Germany

Prof. Dr. Hinrich Schulenburg (hschulenburg@zoologie.uni-kiel.de)
Chair: Evolutionary Ecology Genetics Zoological Institute CAU Kiel
Am Botanischen Garten 1-9 24118 Kiel · Germany

Dr. Anshu Bhardwaj (anshu@igib.res.in)
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contd.

Publications

2013: Gokhale, C. S., Papkou A., Traulsen, A. and Schulenburg H. S.
Lotka–Volterra dynamics kills the Red Queen: population size fluctuations and associated stochasticity dramatically change host-parasite coevolution
BMC Evolutionary Biology, 13 (1), 254 (2013)

Wu, B., Traulsen, A. and Gokhale C. S.
Dynamic properties of evolutionary multi-player games in finite populations
Games, 4 (2), 182-99 (2013)

Wu, B., Gokhale C. S., van Veelen M., Wang, L., and Traulsen A.
Interpretations arising from Wrightian and Malthusian fitness under strong frequency dependent selection
Ecology and Evolution, 3 (5), 1276–1280, (2013)

2012: Gokhale C. S., Traulsen A.
Mutualism and evolutionary multiplayer games: Revisiting the Red King
Proceedings of the Royal Society B, 279 (1747), 4611-4616 (2012)

Wu B., Gokhale C.S., Wang L., Traulsen A.
How small are small mutation rates?
Journal of Mathematical Biology, 64 (5), 803-827 (2012)

Han T. A., Traulsen A., Gokhale C. S.
On equilibrium properties of evolutionary multiplayer games with random payoff matrices
Theoretical Population Biology, 81, 264-272 (2012)

2011: Gokhale C. S.
Evolutionary dynamics on multi-dimensional fitness landscapes
Doctoral Thesis (2011),
http://eldiss.uni-kiel.de/macau/receive/dissertation_diss_00006381

Gokhale C. S., Traulsen A.
Strategy abundance in evolutionary many player games with multiple strategies.
Journal of Theoretical Biology, 283, 180-191. (2011)

2010: Gokhale C. S., Traulsen A.
Evolutionary games in the multiverse.
Proc. Natl. Acad. Sci. U.S.A., 107, 5500-5504 (2010)
Selected for *Complexity Digest* 2010.08

Altrock P.M., Gokhale C.S., Traulsen A.
Stochastic slowdown in evolutionary processes.
Phys. Rev. E 80, 011909 (2010).
Selected for the *Virtual Journal of Biological Physics Research*.

2009: Anshu Bhardwaj, Mitali Mukerji, Shipra Sharma, Jinny Paul, Chaitanya S. Gokhale, Achal K. Srivastava, Shrish Tiwari.
MtSNPscore: A combined evidence approach for assessing cumulative impact of mitochondrial variations in disease.
BMC Bioinformatics, 10 (Suppl 8), S7 (2009)

Gokhale C. S., Y Iwasa, Nowak M.A., Traulsen A.
The pace of evolution across fitness valleys.
Journal of Theoretical Biology, 259, 613-620 (2009)