

Curriculum Vitae - Benjamin de Bivort

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Education

- Bachelors of Science in Biology and Mathematics, Duke 2002
Honors Thesis: "Notch is required for activity-dependent synaptic plasticity in *Drosophila*"
- Master of Arts in Molecular and Cellular Biology, Harvard 2003
- Ph.D. program in Molecular and Cellular Biology, Harvard 2007 (expected)

Fellowships

- Angier B. Duke Memorial Scholarship to Duke (pays all tuition) 1998 – 2002
- Lord Rothermere Fellow, New College, Oxford 2000 (summer)
- PRUV Fellow, Duke University Mathematics Dept., supports independent research 2001 – 2002
- National Science Foundation Graduate Research Fellowship 2002 – 2005

Honors

- Westinghouse Science Competition Semifinalist 1997
- State of Maryland Distinguished Scholar 1998
- National Merit Finalist 1998
- Derek Bok Teaching Award – Biological Sciences 50 T.F. 2003
- Ernie Peralta Award (best departmental Thesis Proposal) 2004

Academic community participation

- Co-Organizer of second annual Genetics and Genomics Symposium on "Species Interactions and Coevolution," collaboration between MCB and OEB, Harvard 2002 – 2003
- Contributor Genetics and Genomics webpage 2003 – 2004
- Resident tutor, Leverett House, Harvard 2004 – Present
- Department-nominated speaker, Boston Area Graduate Student Symposium 2005

Teaching

- Teaching Assistant, Calculus, Duke 1999 (fall)
- Graduate-only course on Teaching Biology, Duke 2002
- Teaching Fellow, Genetics and Genomics (BS50), Harvard 2003 (fall)
- Teaching Fellow, HHMI High School Outreach: Behavioral Neuroscience, Harvard 2004 (spring)
- Teaching Fellow, Systems Biology (MCB195), Harvard 2005 (spring)
- Teaching Fellow, Topics in Behav. Ecology: Learning & Memory (OEB174), Harvard 2005 (spring)

Publications

- de Bivort, Huang, Bar-Yam. "Cellular level regulation and function derived from murine expression array data." *Proc Nat Acad USA*. **101**(51), 17687-92, 2004.
- de Bivort & Giribet. "New genus and species of cyphophthalmid with a phylogenetic analysis of the Sironidae (Arachnida, Opiliones, Cyphophthalmi)." *Invertebrate Systematics*. **18**(1), 7-52, 2004.
- Ciupe, de Bivort & Nelson. "Estimating kinetic parameters from HIV primary infection data through the eyes of three different mathematical models." *Mathematical BioSciences*. 2003. In Press.
- de Bivort. "Isotemporal classes of n-gons." *Discrete Mathematics*. 2004. Submitted.

Manuscripts in preparation

- de Bivort, Onah, Kunes. "Blue Photoreceptors Mediate Classical Conditioning Upstream of Phototactic Circuitry in *Drosophila*."
- Song, de Bivort, Kunes. "Stereotyped migration determines the spatial pattern of odorant receptor expression in the *Drosophila* antenna."
- de Bivort, Puthenveetil, Zhong. "Notch is required for activity-dependent synaptic plasticity in the *Drosophila* neuromuscular junction."
- de Bivort, Chen, Peretti, Negro, Phillips, Bar-Yam. "Non-mutualism and the mitochondrial endosymbiosis."
- de Bivort, Huang, Bar-Yam. "Multiscale networks of cellular regulation."
- de Bivort. "Isotemporal classes of diasters, daisies, and beachballs."