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## John Novembre

### Academic Positions

2008- Assistant Professor, Department of Ecology and Evolution, University of California-  
Los Angeles

### Education

2006-2008 Postdoctoral training, Department of Human Genetics,  
University of Chicago, Chicago, IL

2006 PhD, Integrative Biology with designated emphasis in Computational Biology/Genomics.  
University of California-Berkeley, Berkeley, CA

2000 B.A. *cum laude*, Biochemistry.  
Colorado College, Colorado Springs, CO.

### Honors

2006-2008 National Science Foundation Postdoctoral Fellow in Bioinformatics

2005 Japanese Society for the Promotion of Science Summer Fellow

2001-2006 Howard Hughes Medical Institute Predoctoral Fellow

2001 National Science Foundation Graduate Fellowship (declined)

2000 J. Juan Reid Award for extracurricular and scholastic achievement, American  
Institute of Chemists Award in Biochemistry

1999 Rhodes Scholar Finalist, Outstanding Research Presentation at the West Coast  
Biological Sciences Undergraduate Research Conference, Alberts Summer Re-  
search Prize

1996-2000 Boettcher Scholar (merit-based full-expense fellowship for Colorado residents)

### Publications

- Reiner AP, Barber MJ, Guan Y, Ridker PM, Lange LA, Chasman DI, Walston JD, Cooper GM, Jenny NS, Rieder MJ, Durda JP, Smith JD, Novembre J, Tracy RP, Rotter JI, Stephens M, Nickerson DA, Krauss RM. (2008) Polymorphisms of the HNF1A Gene Encoding Hepatocyte Nuclear Factor-1alpha are Associated with C-Reactive Protein. *American Journal of Human Genetics* 82:1193-1201.
- Novembre, J, Stephens, M. (2008) Interpreting principal components analyses of spatial population genetic variation. *Nature Genetics* 40:646-649.

- Novembre, J\*, Pritchard, JK, Coop, G.\* (2007) "Adaptive drift in the gene pool" *Nature Genetics* 39:1188-1190.
- Rosenblum, EB\*, Novembre, J.\* (2007) "Ascertainment bias in spatially structured populations: A case study in the Eastern Fence Lizard" *Journal of Heredity* 98(4):331-336.
- Novembre, J, Galvani, AP, Slatkin, M. (2005) The geographic spread of the CCR5- $\Delta$ 32 HIV-resistance mutation. *PLOS Biology* 3:e397.
- Galvani, AP, Novembre, J. (2005) The evolutionary history of the CCR5- $\Delta$ 32 HIV-resistance mutation. *Microbes and Infection* 7:302-309.
- Anderson EC, Novembre J. (2003) Finding haplotype block boundaries using the minimum description length principle. *American Journal of Human Genetics* 73:336-354.
- Herbeck, J, Novembre J. (2003) Codon usage patterns in cytochrome oxidase I across multiple insect orders. *Journal of Molecular Evolution* 56:691-701.
- Slatkin, M, Novembre J. (2003) Appendix to paper by Wall and Herbeck. *Journal of Molecular Evolution* 56:689-690.
- Novembre, J. (2002) Accounting for nucleotide composition when measuring codon usage bias. *Molecular Biology and Evolution*: 19:1390-1394.
- Excoffier, L, Novembre, J, Schneider, S. (2000) SIMCOAL: a general coalescent program for the simulation of molecular data in interconnected populations with arbitrary demography. *Journal of Heredity* 91:506-509.

#### Invited Presentations

- "The geographic spread of the CCR5- $\Delta$ 32 HIV-resistance allele", Department of Biology, The Colorado College. April 2007.
- "Summarizing genetic diversity across space: Properties of principal components in spatially structured populations." Department of Human Genetics, University of Michigan. March 2007
- "Understanding the geographic distribution of the CCR5- $\Delta$ 32 HIV-resistance mutation" Department of Ecology and Evolution, University of California-Los Angeles. November 2005.
- "The geographic spread of the CCR5- $\Delta$ 32 HIV-resistance allele" Hayama Seminar, Graduate University for Advanced Studies (Sokendai), Japan. August 2005.
- "Understanding block-like patterns of inheritance in the human genome" Department of Biology, The Colorado College. March 2004.
- "Estimating dispersal in continuous habitats using the distribution of low-frequency alleles", Facultad de Ciencias, Universidad de la Republica, Uruguay

#### Conference Presentations

- Novembre, J, Stephens, M. (2007) "Interpreting principal components of spatially structured population genetic variation" American Society for Human Genetics, Society for the Study of Molecular Biology and Evolution Annual Meeting, Gordon Conference for Quantitative Genetics (poster), Symposium on Evolutionary Change in Human-Altered Landscapes (poster)

- Novembre, J, Slatkin, M. (2006) “Inference in the continuous isolation-by-distance model: Using the geographic distribution of low-frequency alleles to estimate a scaled dispersal distance” Society for the Study of Molecular Biology and Evolution Annual Meeting (poster)
- Novembre, J, Galvani AP, Slatkin, M. (2004) “The geographic spread of an advantageous allele: The  $\Delta 32$  mutation in humans” Society for the Study of Evolution Annual Meeting
- Novembre, J, Slatkin M. (2003) “Studying dispersal in continuous habitats using the geographic distribution of low-frequency alleles” Society for the Study of Evolution Annual Meeting
- Novembre, J, Anderson, EC. (2002) “Defining haplotype block boundaries using a Minimum Description Length method” DIMACS/RECOMB Workshop on Computational Methods for SNPs and haplotype inference (poster)
- Novembre, J. (2002) “Accounting for background nucleotide composition when measuring codon usage bias” American Genetics Association Symposium on Molecular Evolutionary Genetics (poster) and Society for the Study of Evolution Annual Meeting (poster)
- Novembre, J, Herbeck, J. (2001) “Codon usage bias in cytochrome oxidase I across multiple orders of insects” Society for the Study of Evolution Annual Meeting (poster)
- Novembre, J, Ebersole, J, Bertrand R. (1999) “Geographic patterns in the population genetics of *Quercus gambelii*” West Coast Biological Sciences Undergraduate Research Conference

#### Teaching Experience

2005	Student Instructor, Topics in Biology (Evolution), Waston School of Biological Sciences, Cold Spring Harbor, NY
2001-2002	Student Instructor, Evolutionary Genetics, UC-Berkeley, Berkeley, CA

#### Related Professional Experience

Reviewer	American Journal of Human Genetics, Annals of Human Genetics, Bioinformatics, BMC Bioinformatics, Current Anthropology, Genetics, Genetical Research, Genes and Immunity, Genome Research, Human Biology, Molecular Biology and Evolution, PLOS Genetics, PLOS One, Proceedings of the Royal Society B, Statistical Applications in Genetics and Molecular Biology, Trends in Genetics.
2003	Two-week visit to the lab of Enrique Lessa at the Universidad de la Republica, Uruguay.
2002-2003	Co-chair, Integrative Biology Graduate Students Association
1999	Summer visitor to the research group of Laurent Excoffier, University of Geneva, Switzerland.