

## Sarah E. Cobey

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### Education

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- 9/04- **University of Michigan**, Ann Arbor  
Doctoral student in Ecology and Evolutionary Biology  
Advisor: Mercedes Pascual
- 9/98-5/02 **Princeton University**  
A.B. *summa cum laude* in Ecology and Evolutionary Biology  
Certificates in Environmental Studies and Russian Studies  
Advisor: Andrew Dobson  
Thesis: Haemosporidian infections of Mountain White-Crowned Sparrows (*Zonotrichia leucophrys oriantha*) breeding in the Rocky Mountains.  
Junior papers: A model of the effects of DDT and PCB contamination on herpesvirus dynamics in California sea lions; Impacts of biodiversity on ecosystem function, resistance, resilience, and variability.

### Grants and awards

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- 2005 NSF Graduate Research Fellowship  
2005 YSSP Fellowship Grant from U.S. National Committee for IIASA  
2002 Senior Book Prize, Department of Ecology and Evolutionary Biology, Princeton University  
2002 Phi Beta Kappa  
2002 Sigma Xi Society  
2001 NSF Research Experience for Undergraduates Grant

### Publications

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- Koelle, K., Cobey, S., Grenfell, B. and M. Pascual. Epochal evolution shapes the phylodynamics of inter-pandemic influenza A (H3N2) in humans. *Science*. In press.
- Cobey, S.E. 2005. "Sea lampreys in the Great Lakes." *In Ecological Networks*. J.A. Dunne and M.P. Pascual, eds. (Oxford University Press).

### Talks and posters

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- Center for Infectious Disease Dynamics. "Influenza Seasonality Workshop." October 18-20, 2006. State College, Pennsylvania. October 18-20, 2006. (Invited talk)
- International EcoHealth Association. "EcoHealthONE: Promoting Global Health – Sustaining Natural Resources." Madison, Wisconsin. October 7-10, 2006. (Talk)

Pacific Institute for the Mathematical Sciences (PIMS) and the University of British Columbia.  
“Bridging the Scales of Disease Dynamics.” Vancouver, B.C. September 27-29, 2006. (Poster)

### **Professional meetings**

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NSF-IGERT PRIMES and Penn State University. “4<sup>th</sup> Annual Ecology & Evolution of Infectious Disease Conference” State College, Pennsylvania. May 18-20, 2006.

Center for Discrete Mathematics & Theoretical Computer Science. “DIMACS Workshop on the Epidemiology and Evolution of Influenza.” DIMACS Center, Rutgers University, Piscataway, New Jersey. January 25-27, 2006.

NSF-IGERT PRIMES and Colorado State University. “3<sup>rd</sup> Annual Ecology & Evolution of Infectious Disease Conference: Local Infections and Hierarchies of Disease Persistence.” Fort Collins, Colorado: May 19-21, 2005.

International Society for Ecosystem Health. “Healthy Ecosystems, Healthy People.” Washington, D.C.: June 11-14, 2002.

### **Professional service**

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- 9/06- Co-chair of the Complex Systems Advanced Academic Workshop (CSAAW)  
Center for the Study of Complex Systems, University of Michigan, Ann Arbor
- 9/06- Graduate student representative on seminar committee  
Department of Ecology & Evolutionary Biology, University of Michigan, Ann Arbor

### **Research and professional experience**

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- 6/05-8/05 **International Institute for Applied Systems Analysis (IIASA)**, Laxenburg, Austria  
Fellow, Young Scientists Summer Program  
Collaborated with Ulf Dieckmann on a model of ecological and evolutionary dynamics driving the emergence of influenza A viruses in different species of hosts.
- 9/04-5/05 **Mercedes Pascual**, University of Michigan, Ann Arbor  
Graduate Student Research Assistant  
Developed with Katia Koelle a model of drift in influenza A to investigate assumptions about immunity and dynamics at multiple scales.
- 9/02-9/03 **IUCN-The World Conservation Union**, Vientiane, Lao PDR  
Assistant Program Officer and Princeton-in-Asia Intern  
Managed and developed projects requiring collaboration between the Lao government, international NGOs, and UN agencies, relating to poverty alleviation, development, information-sharing, and conservation; was the primary

author of a country framework agreement, securing core program funding for at least three years (approved by donor in August 2003).

6/02-8/02

**Consortium for Conservation Medicine**, Palisades, New York

Intern

Wrote report to guide research on a major collaborative project investigating the proximate and ultimate factors of henipavirus emergence.

5/01-8/01

**Rocky Mountain Biological Laboratory**, Gothic, Colorado

Research Assistant

Designed and performed experiment for senior thesis to measure the effects of elevation, a proxy for temperature, on the prevalence of avian malaria in Mountain White-Crowned Sparrows.

6/97-8/97

**Rep. Thomas M. Davis III, U.S. House of Representatives**, Washington, D.C.

Intern

Wrote constituents regarding Social Security and health care, gave tours of the Capitol, wrote remarks for the *Congressional Record*, researched legislation for superiors, and assisted at political fundraisers and events.