

**CURRICULUM VITAE**  
**KIRSTIN N. STERNER**

**EDUCATION**

- present      Ph.D. Candidate, Physical Anthropology, New York University, New York, NY. Todd R. Disotell (Thesis Advisor)
- 2007      M.Phil., Anthropology, New York University, New York, NY
- 2005      M.A., Anthropology, New York University, New York, NY  
Thesis: *Colobine Molecular Phylogeny*
- 2001      B.A., Anthropology, New York University, New York, NY
- 1999-97      Attended, Anthropology, College of William & Mary, Williamsburg, VA

**TEACHING EXPERIENCE**

- 2007      Co-Mentor (with Dr. Disotell), Harlem Children Society
- 2003-2007      Instructor, Department of Anthropology, New York University  
*Molecular Primatology Laboratory Internship Program*
- 2007      Instructor, Department of Anthropology, New York University  
*Human Evolution*
- 2006      Teaching Assistant, Department of Anthropology, New York University  
*Human Origins*
- 2005      Teaching Assistant, Department of Anthropology, New York University  
*Human Evolution*

**RESEARCH EXPERIENCE**

- present      **Primate Innate Immune Defense and Adaptation to Viral Infection**  
Department of Anthropology at New York University, New York, NY, USA
- 2003-present      **Molecular Phylogeny of Primates Using Mitochondrial Genomes**  
Department of Anthropology at New York University, New York, NY, USA
- 2005      **3D Geometric Morphometrics of Colobines**  
American Museum of Natural History, New York, NY, USA  
(project advisor, Dr. Eric Delson)

- 2004            **Screening of Chimpanzee Samples for Simian Immunodeficiency Virus**  
Centre International de Recherches Medicales (CIRMF), Franceville,  
Gabon  
(project advisor, Dr. Stephen Clifford)
- 2000-03        **Molecular Phylogeny of Primates. MtDNA and Autosomal Loci**  
Laboratory Technician and Research Assistant, Department of  
Anthropology at New York University, New York, NY, USA
- 1999            **Artifact Preparation and Preservation**  
Volunteer, Colonial Williamsburg Foundation/Department of  
Archaeological Research, Williamsburg, VA, USA
- 1999            **Excavation of Colonial Theatre**  
Researcher, College of William & Mary, Archaeological Field School  
Williamsburg, VA, USA

#### **GRANTS**

- 2007            **National Science Foundation Doctoral Dissertation Improvement.**  
Primate Innate Immune Defense and Adaptation to SIV/HIV Infection,  
\$8,974.
- 2007            **Wenner-Gren Dissertation Fieldwork Grant.**  
Evolution of the Human Innate Immune Response, \$8,717.
- 2007            **Sigma Xi Grants-in-Aid of Research.**  
Evolutionary History of the Toll-like Receptor 7 Locus in Primates, \$727.

#### **FELLOWSHIPS AND AWARDS**

- present        **American Dissertation Fellowship,**  
**American Association of University Women (AAUW).**  
Offered and accepted for 2008/2009.
- Dean's Dissertation Fellowship, New York University.**  
Offered for 2008/2009.
- 2003-2008     **MacCracken Fellowship, New York University.**

2004            **National Science Foundation Graduate Research Fellowship  
Honorable Mention.**

#### **PUBLICATIONS**

**Sterner, KN.** Evolution of the Toll-like receptor 7 gene in primates. (in prep).

Hodgson, JA, **KN Sterner**, LJ Matthews, AS Burrell, RL Raaum, C-B Stewart, and TR Disotell. Successive radiations, not stasis, in the South American primate fauna. (submitted).

Alcantara D, O Carmichael, W Harcourt-Smith, **K Sterner**, S Frost, R Dutton, P Thompson, and N Amenta. Localized components analysis of shape variation. *Transactions on Pattern Analysis and Machine Intelligence* (submitted).

**Sterner KN**, RL Raaum, Y-P Zhang, C-B Stewart, TR Disotell. 2006. Mitochondrial data support an odd-nosed colobine clade. *Molecular Phylogenetics and Evolution*. **40**(1):1-7.

Raaum, RL, **KN Sterner**, CM Noviello, TR Disotell, and C-B Stewart. 2005. Catarrhine primate divergence dates estimated from complete mitochondrial genomes: Concordance with Fossil Evidences. *Journal of Human Evolution* **48**(3):237-257.

Wildman, DE, TJ Bergman, A al-Aghbari, **KN Sterner**, TK Newman, JE Phillips-Conroy, CJ Jolly, and TR Disotell. 2004. Mitochondrial evidence for the origin of hamadryas baboons. *Molecular Phylogenetics and Evolution*. **32**(1):287-96.

Telfer, PT, S Souquiere, SL Clifford, KA Abernethy, MW Bruford, TR Disotell, **KN Sterner**, P Roques, PA Marxs, and EJ Wickings. 2003. Phylogenetic divergence in mandrills. *Molecular Ecology* **12**:2019-2024.

#### **PUBLISHED CONFERENCE PROCEEDINGS AND ABSTRACTS**

Hodgson, JA, L Pozzi, **KN Sterner**, C-B Stewart, and TR Disotell. Molecular divergence dates suggest an origin of crown primates near the K/T boundary. *American Journal of Physical Anthropology*. (submitted).

**Sterner, KN.** 2008. Evolution of the Toll-like receptor 7 gene in primates. *American Journal of Physical Anthropology*. **S46**:201.

Hodgson, JA, **KN Sterner**, LJ Matthews, R Jani, C-B Stewart, and TR Disotell. 2008. Phylogenetic relationship of the Platyrrhini inferred from complete mitochondrial genome sequences. *American Journal of Physical Anthropology*. **S46**:118-119.

Alcantara D, O Carmichael, E Delson, W Harcourt-Smith, **K Sterner**, S Frost, R Dutton, P Thompson, H Aizenstein, O Lopez, J Becker, and N Amenta. 2007. Localized Components Analysis. *Proceedings of Information Processing in Medical Imaging*. **4584**:519-531.

Disotell, TR, AS Burrell, SL Clifford, RL Raaum, **KN Sterner**, and AJ Tosi. 2005. Molecular phylogeny of the Papionini. *American Journal of Physical Anthropology* **S40**: 95.

Telfer, PT, S Sonquiere, SL Clifford, KA Abernethy, MW Bruford, TR Disotell, **KN Sterner**, PR Preston, and MJ Wickings. 2004. Molecular diversity and biogeography of the genus *Mandrillus* (Primates: Papionini). *Folia Primatologica* **75**(S1):57-58.  
Raaum, RL, **KN Sterner**, AJ Tosi, SA Farley, L Zhang, MS Harper, KE Krasinski, TR Disotell, and C-B Stewart. 2004. Life history variables and nucleotide substitution rate variation in the catarrhine primates. *American Journal of Physical Anthropology* **S38**:163.

Raaum, RL, **KN Sterner**, and TR Disotell. 2003. Molecular estimates of primate divergence dates. *American Journal of Physical Anthropology* **S36**:173.

**Sterner, KN**, RL Raaum, AJ Tosi, CM Noviello, JE Schienman, RV Collura, C-B Stewart, and TR Disotell. 2003. Colobine molecular phylogeny. *American Journal of Physical Anthropology* **S36**:200. (Presented at the American Association of Physical Anthropologists Annual Meeting, Tempe, AZ, USA, April 2003)

Disotell, TR, RL Raaum, **KN Sterner**, CM Noviello, and C-B Stewart. 2002. Old World monkey mitochondrial DNA evolution. *American Journal of Physical Anthropology* **S34**:63-64.

Raaum, RL, **KN Sterner**, CM Noviello, TR Disotell, P Karanth, AP DeKoning, and C-B Stewart. 2002. Nuclear gene phylogenies from Old World monkeys. *American Journal of Physical Anthropology* **S34**:128.

## PRESENTATIONS

Jun 2007 Evolution of the Toll-like receptor 7 gene in primates, Society for Molecular Biology and Evolution Annual Meetings, Halifax, Nova Scotia, Canada.

Oct 2005 Colobine Molecular Phylogeny. Monkeys Old and New (organized by the New York Consortium in Evolutionary Primatology, NYCEP), New York, NY, USA

## **COLLABORATORS**

Todd Disotell, New York University; Anthony Di Fiore, New York University; Cliff Jolly, New York University; Eric Delson, Lehman College, City College of New York; Ryan Raaum, Lehman College, City College of New York; Stephen Clifford, Centre International de Recherches Medicales (CIRMF); Paul Telfer, CIRMF (Gabon); Jean Wickings, CIRMF (Gabon); Derek Wildman, Wayne State University; Karen Baab, Stony Brook University; Nelson Ting, University of Iowa; Ya-Ping Zhang, Kunming Institute of Zoology (China).

## **PROFESSIONAL AFFILIATIONS**

- Society of Molecular Biology and Evolution
- American Association of Physical Anthropology
- New York Consortium in Evolutionary Primatology
- Center for the Study of Human Origins at New York University