

Jeet Sukumaran

- CONTACT INFORMATION** Department of Ecology and Evolutionary Biology
and The KU Biodiversity Institute
University of Kansas
Dyche Hall
1345 Jayhawk Blvd
Lawrence, KS 66045-7561
Voice: (785) 864-3439
Fax: (785) 864-3439
E-mail: jeet@ku.edu
WWW: <http://jeetworks.org/>
- DATE OF BIRTH** April 2nd, 1972
- CITIZENSHIP** Malaysia
- EDUCATION** **PhD**, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, USA (in progress). Development of methods to investigate historical phylogeographic questions using models that integrate phylogenetic, geographical, and environmental processes. Advisors: Dr. Mark T. Holder and Dr. Rafe M. Brown.
MSc, Institute of Biological Sciences, University of Malaya, Kuala Lumpur, Malaysia (2005): “Habitat Structure and Organization of Montane Stream Anuran Assemblages”
BSc (Biology: Ecology, Evolution and Conservation), Section of Integrative Biology, University of Texas, Austin, USA (1998).
- PEER-REVIEWED PUBLICATIONS** Holder, M. T., J. Sukumaran and R. M. Brown, 2010. Recent developments in Bayesian phylogenetics. In Dey, D. K., S. Ghosh and B. K. Mallick, editors, *Bayesian Modeling in Bioinformatics*, page in press. Chapman & Hall/CRC.
Matsui, M., A. Tominaga, W. Liu, W. Khonsue, L. L. Grismer, A. C. Diesmos, I. Das, A. Sudin, P. Yambun, H. Yong, J. Sukumaran and R. M. Brown, 2010. Phylogenetic relationships of *Ansonia* from Southeast Asia inferred from mitochondrial DNA sequences: Systematic and biogeographic implications (Anura: Bufonidae). *Molecular Phylogenetics and Evolution*, 54(2): 561 – 570.
Sukumaran, J. and M. T. Holder, 2010. DendroPy: a Python library for phylogenetic computing. *Bioinformatics*, 26: 1569–1571.
Sukumaran, J. and C. W. Linkem, 2009. Choice of topology estimators in Bayesian phylogenetic analysis. *Molecular Biology and Evolution*, 26(1): 1–3.
Wiens, J., J. Sukumaran, A. Pyron and R. Brown, 2009. Evolutionary and biogeographic origins of high tropical diversity in Old World frogs (Ranidae). *Evolution*, 63: 1217–1231.
Holder, M. T., J. Sukumaran and P. Lewis, 2008. A justification for reporting the majority-rule consensus tree in Bayesian phylogenetics. *Systematic Biology*, 57(5): 814–8221.
Das, I., N. Yaakob and J. Sukumaran, 2007. A new species of *Microhyla* (Anura: Microhylidae) from the Malay Peninsula. *Hamadryad*, 31(2): 304–314.
Brown, R. M., S. Richards, J. Sukumaran and J. Fougopoulos, 2006. A new morphologically cryptic species of forest frog (genus *Platymantis*) from New Britain Island, Bismarck Archipelago. *Zootaxa*, 1334: 45–68.

- Sukumaran, J., I. Das and A. Haas, 2006a. A synopsis of bioacoustic studies of Anuran amphibians of Borneo. *Herpetological Review*, 37(3): 288–293.
- Sukumaran, J., N. Yaakob and D. Yong, 2006b. The herpetofauna of the Southeast Pahang peat-swamp forests. *Hamadryad*, 30(1&2): 75–91.
- Yaakob, N. and J. Sukumaran, 2006. An inventory of the amphibians of Pasoh Forest Reserve, Negeri Sembilan, Peninsular Malaysia. *Hamadryad*, 30(1&2): 102–107.
- Grismer, L., J. Sukumaran, J. Grismer, T. Youmans, P. Wood and R. Johnson, 2005. Report on the herpetofauna from the Temengor Forest Reserve, Perak, West Malaysia. *Hamadryad*, 29(1): 15–35.
- Sukumaran, J., 2002. The amphibian fauna of a forested area in Temengor, Northern Peninsular Malaysia. *Hamadryad*, 27(1): 1–10.

PRESENTATIONS

- Sukumaran, J. and M. T. Holder. Performance and Robustness of Phylogeographic Statistics under Complex Simulations. Joint Annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN), Portland, Oregon, USA **June 2010. Oral presentation.**
- Sukumaran, J. and M. T. Holder. Phylogenetic operations in Python with DendroPy. Informatics for Phylogenetics, Evolution and Biodiversity Conference, Portland, Oregon, USA **June 2010. Oral presentation.**
- Sukumaran, J., M. T. Holder and R. Brown. 2009. Evaluating the Performance of Phylogeographic Test Statistics using Complex Simulations. Joint Annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN), Moscow, Idaho, USA, **June 2009. Oral presentation.**
- Sukumaran, J., B. Stuart, L. Grismer, and R. Brown. 2007. Phylogeography of *Microhyla*: testing biogeographic hypotheses using relative divergence time estimation (preliminary results). Joint Meeting of Ichthyologists and Herpetologists, St. Louis, Missouri, USA, **July 2007. Oral presentation.**

NON-PEER
REVIEWED
TECHNICAL
PUBLICATIONS

- Shepherd, C. R., J. Sukumaran and S. A. Wich. 2004. Open Season: An analysis of the pet trade in Medan, Sumatra 1997-2001. TRAFFIC Southeast Asia, Petaling Jaya.
- Reza Azmi and J. Sukumaran. 2002. Biodiversity assessments and conservation planning for sustainable production forestry in high-conservation value forests: A preliminary biodiversity assessment. WWF Malaysia, Petaling Jaya.
- Sukumaran, J. 1999. Tiger Parts in traditional Chinese medicine: A survey of traditional Chinese medicine shops in Peninsular Malaysia. TRAFFIC Southeast Asia, Petaling Jaya.

OUTREACH AND
COMMUNITY

- Sukumaran, J. and R. Brown. 2006. HerpWatch Philippines. Website available at: <http://www.herpwatch.org/>.
- Sukumaran, J. and R. Brown. 2006. Comparative Biogeography and Conservation of Philippine Vertebrates. Website available at: <http://www.cbcpv.org/>.
- Sukumaran, J. 2002–2006. Frogs of the Malay Peninsula. Website: <http://frogweb.org/>.
- Sukumaran, J. 2003. Frog fascination. *The Star* (Environment).

- Sukumaran, J. 2002. *Frogs of Perlis State Park*. Perlis State Department of Forestry.
- Sukumaran, J. 2002. Katak dan kodok di Malaysia (Frogs and toads of Malaysia). *Tam Tam* February/March 2002.
- Sukumaran, J. 2002. Snaking out the fear factor. *Malayan Naturalist* 56(2): 22-26.

MINOR GRANTS
AND PROPOSALS

- KU EEB Special Summer Funding – \$4000 (2010)
- KU EEB Graduate Student Travel Fund – \$300 (2009)
- KUNHM/EEB Special Request – \$1300 (2005)
- KUNHM Panorama – \$600 (2005)

PEER-REVIEW
SERVICES

- *Copeia* (1)
- *BMC Bioinformatics* (1)
- *Biodiversity Informatics* (1)
- *Molecular Ecology* (1)

EMPLOYMENT
HISTORY

- Jan 2010 – May 2010 Teaching Assistant, Introduction to Organismal Biology Labs, Dept. of Ecology and Evolutionary Biology, **University of Kansas** (Instructor: Dr. Julie Brown).
- Aug 2009 – Dec 2009 Teaching Assistant, Biometry, Dept. of Ecology and Evolutionary Biology, **University of Kansas** (Instructor: Dr. John Kelly).
- Jan 2009 – July 2009 Programmer and Systems Administration for CIPRES (Cyberinfrastructure for Phylogenetic Research), Dept. of Ecology and Evolutionary Biology, **University of Kansas**.
- Aug 2008 – Dec 2008 Teaching Assistant, Herpetology Lab, Dept. of Ecology and Evolutionary Biology, **University of Kansas** (Instructor: Dr. Rafe Brown).
- May 2008 – Aug 2008 Programmer for Jorge Soberon, Dept. of Ecology and Evolutionary Biology, **University of Kansas** (simulation and analysis).
- Aug 2007 – May 2008 Programmer for CIPRES (Cyberinfrastructure for Phylogenetic Research), Dept. of Ecology and Evolutionary Biology, **University of Kansas**.
- Aug 2005 – Aug 2007 HerpNet Georeferencer, Dept. of Ecology and Evolutionary Biology, **University of Kansas**.
- Feb 2005 – Aug 2005 Research Assistant, **University of Malaysia, Sarawak** (anuran bioacoustics recording and analysis).
- Nov 2004 – Dec 2004 Research Assistant, **University of Malaya** (multivariate statistical analysis and correlation of phytoplankton biodiversity and physico-chemical data).
- Oct 2004 – Nov 2004 Consultant Database Developer, **TRAFFIC Southeast Asia** (continued development on an informant and specimen tracking database for the investigation of illegal wildlife trade in Southeast Asia).
- Jun 2003 – Nov 2003 Consultant Herpetologist, **Wetlands International** (herpetological assessment of the Southeast Pahang peat-swamp forests).

Apr 2000 – Oct 2002	Scientific Officer, World Wide Fund for Nature, Malaysia (UNDP-GEF Project to protect the marine biodiversity of the Marine Park Islands of Malaysia; Conservation planning in production forests; Nature tourism in Ulu Muda).
Feb 2000 – Apr 2000	Research Assistant, World Wide Fund for Nature, Malaysia .
Jun 1999 – Aug 1999	Research Assistant, TRAFFIC Southeast Asia (field survey and analysis of use of tiger parts in traditional Chinese medicine in Malaysia).
May 1999 – Jun 1999	Research Assistant, World Wide Fund for Nature, Malaysia (ecoregional approach to identification of high-conservation value habitats).
Mar 1999 – May 1999	Research Assistant, World Wide Fund for Nature, Malaysia (planning and preparation for the Johore State Workshop on implementing the Convention of Biological Diversity and the National Biodiversity Policy).
Jun 1998 – Dec 1998	Environmental Technical Officer, Malaysian Wetlands Foundation .

OTHER SERVICES

- Managed multiple HPC clusters for phylogenetic and evolutionary analyses for labs in the department.
- Training, direct assistance and other forms of facilitation of analysis on HPC clusters for various researchers across the department.

TECHNICAL SKILLS Programming and scripting: Strong command of Python, C/C++, R, SQL, and shell scripting; experience with Java, C#, VBA, Pascal, FORTRAN.

Mathematical and statistical packages: R, Mathematica, SPSS, MiniTab.

Databases: Experienced in relational database design, development, programming, management, and support, using SQL (PostgreSQL/MySQL), Microsoft Access and supporting technologies (ADO, DAO, etc.).

Web: Experienced in design, development and maintenance of both static (HTML and CSS-only) and dynamic database-driven websites (using Python CGI or ASP.NET).

Systems administration: Linux HPC cluster (for phylogenetic computing).

GIS: Training and experience in using the ESRI ArcGIS family of products.

Applications: \TeX , \LaTeX , \BIBTeX , Microsoft Office, and other common productivity packages for Windows, OS X, and Linux platforms.

Operating Systems: Linux, Mac OS X, and other UNIX variants; Microsoft Windows XP/2000.