

Curriculum Vitae of Jonathan Julio Fong

Contact Information:

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Current Position:

2011-present Seoul National University Postdoctoral Fellow

Previous Scientific Positions:

2006-2007	Museum of Vertebrate Zoology	Curatorial Assistant
2003-2004	DOE Joint Genome Institute	Research Associate
2001-2003	Loma Linda University	Research Assistant
2000	Swire Institute of Marine Sciences, Hong Kong	Research Assistant
1998-2001	University of California, Berkeley	Research Assistant

Education:

2011 Ph.D., Integrative Biology, University of California, Berkeley
Co-advisors: Dr. Jeffrey L. Boore & Dr. Jimmy A. McGuire
2006 M.S., Biology, Loma Linda University
Co-advisors: Dr. L. Lee Grismer & Dr. Ronald L. Carter
2000 B.A., Integrative Biology, University of California, Berkeley
Minor: Education

Publications (Peer Reviewed):

- 17) **Fong, JJ** & MK Fujita (2011) Evaluating phylogenetic informativeness and data-type usage for new protein coding genes across Vertebrata. *Molecular Phylogenetics and Evolution*. 61: 300-307.
- 16) Xia, Z-R, H-X Gu, P-P Li, & **JJ Fong** (2011) Sex determination technology and pivotal temperature in the Green Sea Turtle (*Chelonia mydas*) in China. *Chelonian Conservation and Biology*. 10(1): 117-123.
- 15) Lin, R-C, C Yeung, **JJ Fong**, H-Y Tzeng, & S-H Li (2011) The lack of pollinator specificity in a dioecious fig tree: sympatric fig-pollinating wasps of *Ficus septica* in southern Taiwan. *Biotropica*. 43(2): 200-207.
- 14) He, B, Y Liu, H Shi, J Zhang, M Hu, Y Ma, L Fu, M Hong, J Wang, **JJ Fong**, & JF Parham (2010) Captive breeding of the Four-eyed Turtle (*Sacalia quadriocellata*). *Asian Herpetological Research*. 1(2):111-117.
- 13) Wong, RA, **JJ Fong**, & TJ Papenfuss (2010) Phylogeography of the African Helmeted Terrapin, *Pelomedusa subrufa*: Genetic structure, dispersal, and human introduction. *Proceedings of the California Academy of Sciences*. 61(12): 575-585.
- 12) **Fong, JJ** & T-H Chen (2010) DNA evidence for the hybridization of wild turtles in Taiwan: possible genetic pollution from trade animals. *Conservation Genetics*. 11(5): 2061-2066.

- 11) **Fong, JJ** & G-X Qiao (2010) New localities of endangered Chinese turtles from museum specimens and the practical and ethical challenges using and reporting natural history collection data. *Zootaxa*. 2393: 59-68.
- 10) Liu, Y-x, J Wang, H-t Shi, RW Murphy, M-l Hong, B He, **JJ Fong**, J-c Wang, & L-r Fu (2009) Ethogram of *Sacalia quadriocellata* (Reptilia: Testudines: Geoemydidae) in captivity. *Journal of Herpetology*. 43(2): 318-325.
- 9) Gong, S-P, AT Chow, **JJ Fong**, & H-T Shi (2009) The chelonian trade in the largest pet market in China: scale, scope and impact on turtle conservation. *Oryx*. 43(2): 213-216.
- 8) Shi, H, **JJ Fong**, JF Parham, J-f Pang, J Wang, M Hong, & Y-p Zhang (2008) Mitochondrial variation of the “eyed” turtles (*Sacalia*) based on known locality and trade specimens. *Molecular Phylogenetics and Evolution*.
- 7) Hong, M, H Shi, L Fu, S Gong, **JJ Fong**, & JF Parham (2008) Scientific refutation of traditional Chinese medicine claims about turtles. *Applied Herpetology*. 5:173-187.
- 6) Liu, Y-x, B He, H-t Shi, RW Murphy, **JJ Fong**, J-c Wang, L-r Fu, & Y-g Ma (2008) An analysis of courtship behavior in the four-eyed spotted turtle *Sacalia quadriocellata* (Reptilia: Testudines: Bataguridae). *Amphibia-Reptilia*. 29:185-195.
- 5) Lin, H-C, S-H Li, **J Fong**, & S-M Lin (2008) Ventral coloration differentiation and mitochondrial sequences of the Chinese Cobra (*Naja atra*) in Taiwan. *Conservation Genetics*. 9:1089-1097. (IF: 2.408)
- 4) **Fong, JJ**, JF Parham, H Shi, BL Stuart, & RL Carter (2007) A genetic survey of heavily exploited, endangered turtles: Caveats on the conservation value of trade animals. *Animal Conservation*. 10: 452-460.
- 3) Macey, JR, JA Schulte III, **JJ Fong**, I Das, TJ Papenfuss, & JL Boore (2006) The complete mitochondrial genome of an agamid lizard from the Afro-Asian subfamily Agaminae and the phylogenetic position of *Bufo* and *Xenagama*. *Molecular Phylogenetics and Evolution*. 39: 881-886.
- 2) Macey, JR, **JJ Fong**, S Shafiei, NB Ananjeva, TJ Papenfuss, & JL Boore (2005) The complete mitochondrial genome of a gecko and the phylogenetic position of the Middle Eastern *Teratoscincus keyserlingii*. *Molecular Phylogenetics and Evolution*. 36(1): 188-193.
- 1) **Fong, JJ**, JF Parham, & J Fu (2002) A reassessment of the distribution of *Cuora flavomarginata* Gray 1863 On Mainland China. *Russian Journal of Herpetology*. 9(1): 9-14.

Publications (Non Peer Reviewed)

- 3) **Fong, JJ** (2009) Comments on the proposed conservation of usage of *Testudo gigantea* Schweigger, 1812 (currently *Geochelone (Aldabrachelys) gigantea*; Reptilia, Testudines) 19. *Bulletin of Zoological Nomenclature*. 66(3): 280.
- 2) Gong, S, H Shi, **JJ Fong**, & M Lau (2009) Recent records of freshwater turtles from Guangdong, China. *Turtle and Tortoise Newsletter*. 13: 24-27.
- 1) **Fong, JJ** (2008) Linnaeus Fund Research Report: Conservation Genetics of the Yellow Pond Turtle (*Mauremys mutica*) and the Annam Leaf Turtle (*Mauremys annamensis*). *Turtle and Tortoise Newsletter*. 12: 21-23.

Books & Book Chapters:

- 1) Shi, H, M Hou, P Pritchard, J Peng, Z Fan, F Yin, T Chen, H Liu, J Wang, Y Liu (Eds.) (2008) Identification Manual for Traded Turtles in China. Contributors: PP van Dijk, JF Parham, **J Fong**, B Horne, H Zwartpoorte, C Schaffer, J Tucker, B Devaux, A Cadi, S Gong, G Li. Encyclopedia of China Publishing House, Beijing, 166 pp.

Presentations:

- 11) **Fong, JJ** (2011) Resolving the vertebrate tree of life using phylogenomics. Invited speaker to Ewha Womans University, Korea.

- 10) **Fong, JJ** (2011) Resolving the vertebrate tree of life using phylogenomics. Seoul National University seminar series.
- 9) **Fong, JJ**, MK Fujita, B Boussau, & J Brown (2011) Vertebrate tree of life: the phylogenetic placement of turtles and relationships within amphibians. Korean Research Society of Herpetologists Plenary Lecture.
- 8) **Fong, JJ** (2010) The (Museum of) Vertebrate (Zoology) Tree of Life. MVZ lunch seminar series.
- 7) **Fong, JJ** (2009) Turtle conservation in HK and Mainland China. Invited speaker to Hong Kong University.
- 6) **Fong, JJ** (2009) Systematics and conservation of Asian Turtles. Invited speaker to Kasetsart University, Bangkok, Thailand.
- 5) **Fong, JJ** (2008) Using genetics for the study and conservation of Asian turtles. Invited speaker to Chulalongkorn University, Bangkok, Thailand.
- 4) **Fong, JJ** (2008) Conservation Genetics. Part of a Tree of Life workshop organized by Adam Leache and CIPRES.
- 3) **Fong, JJ**, JF Parham, H Shi, BL Stuart, & RL Carter (2007) Genetic analysis of the endangered Asian Yellow Pond Turtle (*Mauremys mutica*) and the highly endangered Annam Leaf Turtle (*Mauremys annamensis*). Presentation at the Evolution Meeting in Christchurch, New Zealand & Symposium on Conservation of Freshwater Turtles and Tortoises in Atlanta, GA.
- 2) **Fong, JJ** (2007). NSF invited speaker for EAPSI 2007 orientation.
- 1) **Fong, JJ** & RL Carter (2003). Molecular and morphometric analysis of the endangered Yellow Pond Turtle (*Mauremys mutica*). Presentation at the Southern California Academy of Sciences Annual Meeting in Northridge, CA.

Grants & Fellowships:

2011	Seoul National University & BK21	Postdoctoral Fellowship (\$22,500)
2010	Museum of Vertebrate Zoology	Joseph Mallard Fellowship (\$7,500)
2010	Museum of Vertebrate Zoology	Annie M. Alexander Fellowship (\$11,000)
2010	National Science Foundation China	Major International Joint Research (\$5,000)
	“Research on the mating system of Big-headed turtle (<i>Platysternon megacephalum</i>)”	
	PI: Dr. Gong Shiping (South China Institute of Endangered Animals)	
2009	National Science Foundation China	Major International Joint Research (\$117,000)
	“Studies on the invasion ecology of the exotic red-eared slider turtle (<i>Trachemys scripta elegans</i>)”	
	PI: Dr. Shi Haitao (Hainan Normal University)	
2009	National Science Foundation	DDIG (DEB 0909811) (\$13,576)
	“A genomics approach to resolving the origin and evolution of turtles”	
2008-2009	Fulbright IIE	Full Grant & Language Award—China (\$28,200)
	“The Asian turtle crisis: intensive field surveys and research to guide conservation”	
2008	University of California, Berkeley	GRAC Fund (\$300)
2007-2008	National Science Foundation	GK12 Fellowship (\$30,000)
2007	Museum of Vertebrate Zoology	Carl B. Koford Memorial Fund (\$2000)
2007	University of California, Berkeley	Conference Travel Grant (\$500)
2007	Chelonian Research Foundation	Linnaeus Fund (\$1500)
	“Identification and analysis of turtle hybrids from the wild in Taiwan”	
2006	National Science Foundation	EAPSI Fellowship—Taiwan (OISE 0611443) (\$3,000)
	“Molecular systematics of hybridization in turtles of Taiwan”	
2006	University of California, Berkeley	IB Summer Research Block Grant (\$1000)
2006	University of California, Berkeley	GRAC Fund (\$300)
2005	National Science Foundation	EAPSI Fellowship—China (OISE 0513230) (\$3,000)

	“Clarifying distributions of Chinese turtles with historical museum specimens”	
2005	University of California, Berkeley	GRAC Fund (\$300)
2005	Museum of Vertebrate Zoology	Carl B. Koford Memorial Fund (\$2000)
2002	Chelonian Research Foundation	Linnaeus Fund (\$1000)
	“The genetic diversity and phylogenetic relationships of <i>Mauremys mutica</i> based on known locality and turtle farm specimens”	

Awards and Honors:

2007	TSA & TFTSG Annual Meeting	Best Student Paper
2006	University of California, Berkeley	Outstanding Graduate Student Instructor
2003	Loma Linda University	Earl Lathrop Award
2002	Loma Linda University	Jaeger Book Award

Teaching Experience:

2004-2010	University of California, Berkeley	Graduate Student Instructor
	Fall 2004: General Biology (BIO1B)	
	Spring 2005: General Biology (BIO1B)	
	Fall 2005: General Biology (BIO1B)	
	Fall 2010: General Biology (BIO1B)	
	Spring 2006: Herpetology Laboratory (IB175L)	
2009	Piedmont Middle School	Community in the Classroom Volunteer
2007-2008	Adams Middle School (7 th grade)	Science Program Teacher
2006-2008	University of California, Berkeley	Undergraduate Mentor
1999-2000	Longfellow Middle School (7 th grade)	Teacher’s Assistant
1998-1999	Fred Finch Youth Center	Activities Coordinator
1997-1998	Egbert W. Beach Elementary School (2 nd grade)	Teacher’s Assistant

Past Scientists Trained and Supervised:

Robyn Wong (UC Berkeley): Undergraduate Senior Thesis
 “Phylogeography of the genus *Pelomedusa* based on mitochondrial and nuclear data”

Shavon Crawford (DOE Joint Genome Institute): Undergraduate

Journal Reviewer

Animal Cells and Systems, Asiatic Herpetological Research, Biochemical Genetics, The Herpetological Journal, Integrative Zoology, Iranian Journal of Applied Animal Science, Molecular Biology Reports, Oryx, Tropical Conservation Science, Zoological Studies

Society Affiliations

IUCN/SSC Tortoise and Freshwater Turtle Specialist Group