

MARK HENRY SBAJ PÉREZ

Collection Manager of Fishes, Academy of Natural Sciences of Philadelphia

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<http://silurus.acnatsci.org/ACSI/participants/profiles/Sabaj/CV.html>

Born 11 February 1969, Hinsdale, Illinois

Education

B.S.	University of Richmond, Biology	1990
M.S.	University of Richmond, Biology	1992
Ph.D.	University of Illinois at Urbana-Champaign, Animal Biology	2002

Teaching Experience

1990–92	Graduate Teaching Assistant, University of Richmond, Department of Biology
1992–94	Graduate Teaching Assistant*, Univ. of Illinois, Dept. Ecology, Ethology & Evolution
2005–present	High School Science Tutor (various private & public schools in Philadelphia area)

*Award: University of Illinois incomplete list of teachers ranked outstanding (top 10%) by their students

Graduate Research & Professional Experience

2000–present	Collection Manager of Fishes, Academy of Natural Sciences of Philadelphia, Dept. Ichthyology Manage collection of 1.5 million fishes. Additional duties incl. supervising half-time assistant & interns; various educational & outreach activities incl. auditorium, floor, classroom & off-site lectures & presentations; production of teaching & exhibits-related videos; development, design & interpretation of public exhibits; interviews for television, radio & print media; work-study supervisor (w/ Pennsylvania Higher Education Assistance Agency), student advisor for Research Experience for Undergraduates program; behind-the-scenes tours & programming for local grade school, high school & college groups & ANSP Education (e.g., Career days, George Washington Carver summer scholars, Home school, Members & Volunteers nights, Safari & Watershed overnights, Teacher's night out, Scout badges, Women in Natural Sciences).
1995–2000	Assistant Research Scientist (Collection Manager), Illinois Natural History Survey Duties divided between management of INHS collections, personal research & INHS/university/public services including training & supervision of undergraduate & graduate assistants & hosting collection tours, open houses & species identification workshops for grade & high school students & local organizations.
1993–1995	Graduate Research Assistant, Illinois Natural History Survey Aquatic surveys of mollusks, crayfishes, fishes & herps throughout Illinois for IL Dept. of Transportation & in SW California for US Army Construction Engineering Research Laboratory; general collecting, sorting & identification of fishes from North & South America; curatorial assistant in INHS Fish Collection; molecular lab work (DNA purification, amplification, cloning & sequencing); & preparation of technical reports, applications/reports for scientific collecting permits & b/w illustrations for scientific publications.
1989–1991	Summer Research Assistant, University of Richmond, Department of Biology Sorting, identifying & accessioning fishes into UR Fish Collection; assisting Drs. William S. Woolcott & Eugene G. Maurakis in videotaping & analyzing natural reproductive behaviors of minnows in the field in Alabama, Pennsylvania, Tennessee, Virginia & Wisconsin.

Field Experience

1992–present	Aquatic surveys & general collection of fishes & aquatic invertebrates in: Argentina (2005), Bolivia (1995), Brazil (2007), Canada (1995), Colombia (2006), Guyana (1998, 02, 03), Mongolia (2006), Peru (1995, 96, 97, 99, 01, 03, 04, 05, 10), Suriname (2007), Thailand (2001), Venezuela (1992, 93, 94, 04, 05, 10) & USA (1989–present in 34 states).
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Synergistic Activities

2002–present	Collections Committee (Chair since 2009), American Society of Ichthyologists & Herpetologists.
2005–present	Invited guest lecturer for Aquarium Club of Lancaster Co. (2008, 2009), Catfish Study Group, UK (2009), Delaware Co. Aquarium Club (2005, 2007), Friends' Central School, Wynnewood, PA (2006), Instituto de Biociências de Botucatu, Brazil (2010), Potomac Valley Aquarium Society (2006), St. Joseph's Univ., Philadelphia (2009), Univ. Antioquia, Medellín, Colombia (2009), Univ. Nac. Amazonía Peruana, Iquitos (2005), Univ. Nac. Mayor de San Marco, Lima, Peru (2008).

- 2005–present Chaperone on student exchange trips to Sevilla, Spain (2005, 2007) & service trips to Cuzco, Peru, including 3-day hike on Inca Trail (2006, 2010), Friends' Central School, Wynnewood, PA.
- 2007–present Co-editor for the Proceedings & Notulae Naturae of the Academy of Natural Sciences of Philadelphia & of Neotropical Ichthyology (2008 only).

Grants & Contracts

- 1997–98 Illinois DNR, Natural Heritage Division, Wildlife Preservation Fund: Survey of fishes, crayfishes & mussels of the Upper Little Vermilion River (with 4 collaborators). \$6,000
- 1998–99 National Geographic Society Committee for Research and Exploration: Fishes of the Essequibo River, Guyana, 90 years after Eigenmann's Expedition (with 5 collaborators). \$24,650
- 1999–00 Illinois DNR, Natural Heritage Division, Wildlife Preservation Fund: Illinois status survey of the redbside dace, *Clinostomus elongatus*: a new addition to the state's native fauna. \$1,000
- 2001 World Wildlife Fund: Freshwater ecoregions of South America (with 2 collaborators). \$3,000.
- 2005 World Wildlife Fund: Watershed analysis for the Guianas, Guianas Forests & Environmental Conservation Program, WWF Guianas. \$1,058.
- 2003–09 National Science Foundation DEB 0315963: All Catfish Species (SILURIFORMES)—Phase 1 of an Inventory of the Otophysi (with 5 collaborators). \$4,745,087
- 2008–10 National Science Foundation DBI 0749515: Digital Imaging of the Primary Type Fish Specimens at the Academy of Natural Sciences, Philadelphia (with 1 collaborator). \$157,392

Select Peer-Reviewed Publications (37 total from 1991–present)

- 2000 — **Sabaj, M.H.**, E.G. Maurakis & W.S. Woolcott. Spawning behaviors in the bluehead chub, *Nocomis leptocephalus*, river chub, *N. micropogon* and central stoneroller, *Campostoma anomalum*. *American Midland Naturalist* 144: 187–201.
- 2002 — Motomura, H. & **M.H. Sabaj**. A new subspecies, *Polynemus melanochir dulcis*, from Tonle Sap Lake, Cambodia, and redescription of *P. m. melanochir* Valenciennes in Cuvier and Valenciennes, 1831 with designation of a neotype. *Ichthyological Research* 49: 181–190.
- 2003 — **Sabaj, M.H.**, & C.J. Ferraris, Jr. Family Doradidae (Thorny catfishes), p. 456–469 in: R.E. Reis, S.O. Kullander, and C.J. Ferraris, Jr. (organizers), Check list of the freshwater fishes of South and Central America, Porto Alegre: EDIPUCRS, 2003. 742 p.
- 2007 — **Sabaj Pérez, M.H.**, O.A. Aguilera S. & J.G. Lundberg. Fossil catfishes of the families Doradidae and Pimelodidae (Teleostei: Siluriformes) from the Miocene Urumaco Formation of Venezuela. *Proceedings of ANSP* 156: 157–194.
- 2008 — Abell, R., M.L. Thieme, C. Revenga, M. Bryer, M. Kottelat, N. Bogutskaya, B. Coad, N. Mandrak, S. Contreras Balderas, W. Bussing, M.L.J. Stiassny, P. Skelton, G.R. Allen, P. Unmack, A. Naseka, R. Ng, N. Sindorf, J. Robertson, E. Armijo, J.V. Higgins, T.J. Heibel, E. Wikramanayake, D. Olson, H.L. Lopez, R.E. Reis, J.G. Lundberg, **M.H. Sabaj Pérez** & P. Petry. 2008. Freshwater ecoregions of the world: a new map of biogeographic units for freshwater biodiversity conservation. *BioScience* 58(5): 403–414.
- 2008 — **Sabaj Pérez, M.H.**, and J.L.O. Birindelli. Taxonomic revision of extant *Doras* Lacepède, 1803 (Siluriformes: Doradidae) with descriptions of three new species. *Proceedings of ANSP* 157: 189–233.
- 2009 — **Birindelli, J.L.O., L.M. Sousa & M.H. Sabaj Pérez**. Morphology of the gas bladder in thorny catfishes (Siluriformes: Doradidae). *Proceedings of ANSP* 158:261–296.
- 2009 — **Sabaj Pérez, M.H.** Photographic atlas of fishes of the Guiana Shield. p. 53–93 in: Vari, R.P., C.J. Ferraris, Jr., A. Radosavljevic, and V.A. Funk (eds). Checklist of the freshwater fishes of the Guiana Shield. *Bulletin of the Biological Society of Washington*, no. 17.
- 2009 — Lundberg, J.G., **M.H. Sabaj Pérez**, W.M. Dahdul and O.A. Aguilera S. 2009. The Amazonian Neogene fish fauna. p. 281–301 in: Hoorn, C., and F.P. Wesselingh (eds). *Amazonia—landscape and species evolution: a look into the past*. Wiley-Blackwell, 447 p.
- 2010 — **Thomas, M.R. & M.H. Sabaj Pérez**. 2010. A new species of whiptail catfish, genus *Loricaria* (Siluriformes: Loricariidae), from the Rio Curuá (Xingu Basin), Brazil. *Copeia* 2010(2): 274–283.

Popular Articles

- 2009 — **Sabaj Pérez, M.** PIPE-Expedition in die Serra do Cachimbo. Amazonas, Süßwasseraquaristik-Fachmagazin, Natur und Tier-Verlag GmbH, Nr. 25 (Sep/Oct 2009): 36–43.