

# HERU HANDIKA

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119 Foster Hall  
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## EDUCATION

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<b>PhD</b>	Louisiana State University, Department of Biological Sciences Advisor: Dr. Jacob A. Esselstyn	2018-now
<b>MS</b>	University of Melbourne, Department of Zoology Graduated with distinction Advisor: Dr. Kevin C. Rowe and Dr. Devi M. Stuart-Fox	2015-2017
<b>BS</b>	Andalas University, Department of Biology Advisor: Dr. Jabang Nurdin and Dr. Rizaldi	2008-2013

## MANUSCRIPT IN PREP

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**Handika, H.**, Rowe, K.C., Achmadi, A.S., Swanson, M. T., and Esselstyn, J.A. In Prep. A new species of *Frateromys* from the Northern Peninsula of Sulawesi, Indonesia.

## PEER-REVIEWED PUBLICATIONS

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1. Esselstyn, J.A., Achmadi, A.S., **Handika, H.**, Swanson, M. T., Giarla, T.C. and Rowe, K.C., 2019. Fourteen new, endemic species of shrew (genus *Crocidura*) from Sulawesi reveal a spectacular island radiation. *Bulletin of the American Museum of Natural History*, 454(1), pp.1-108.
2. **Handika, H.**, Achmadi, A.S., Esselstyn, J.A., and Rowe, K.C. 2021. Molecular and morphological systematics of the *Bunomys* division (Rodentia: Muridae), an endemic radiation on Sulawesi. *Zoologica Scripta* 50(2), pp. 141–154.
3. Nations, J.A., Mursyid, A., Busta, R.D., Adrian, S.P., **Handika, H.**, Achmadi, A.S. and Esselstyn, J.A., 2021. The first report of albinism in a Sundaland endemic rodent. *Mammalia*, 1 85(2), pp.168-172.
4. Winterhoff, M.L., Achmadi, A.S., Roycroft, E.J., **Handika, H.**, Putra, R.T.J., Rowe, K.M., Perkins, S.L. and Rowe, K.C., 2020. Native and Introduced Trypanosome Parasites in Endemic and Introduced Murine Rodents of Sulawesi. *The Journal of Parasitology*, 106(5), pp.523-536.
5. Harapan, T.S., Agung, A.P., **Handika, H.**, Novarino, W., Tjong, D.H. and Tomlinson, K.W., 2020. New records and potential geographic distribution of Elongated Caecilian, *Ichthyophis elongatus* Taylor, 1965 (Amphibia, Gymnophiona, Ichthyophiidae), endemic to West Sumatra, Indonesia. *Check List*, 16(6), pp. 1695-1701.

6. Esselstyn, J.A., Achmadi, A.S., **Handika, H.**, Giarla, T.C. and Rowe, K.C., 2019. A new climbing shrew from Sulawesi highlights the tangled taxonomy of an endemic radiation. *Journal of Mammalogy*, 100(6), pp.1713-1725.
7. Janra, M.N., Noske, R.A., Chornelia, A., **Handika, H.**, Mursyid, A., Agung, A. and Saputra, A., 2018. A second breeding record of Chestnut-naped Forktails *Enicurus ruficapillus* in Sumatra, and observations suggesting females alone incubate. *Kukila*, 21, pp.13-16.
8. Demos, T.C., Achmadi, A.S., **Handika, H.**, Rowe, K.C. and Esselstyn, J.A., 2017. A new species of shrew (Soricomorpha: Crocidura) from Java, Indonesia: possible character displacement despite interspecific gene flow. *Journal of Mammalogy*, 98(1), pp.183-193.
9. Demos, T.C., Achmadi, A.S., Giarla, T.C., **Handika, H.**, Rowe, K.C. and Esselstyn, J.A. 2016. Local endemism and within-island diversification of shrews illustrate the importance of speciation in building Sundaland mammal diversity. *Molecular ecology*, 25(20), pp.5158-5173.
10. Esselstyn, J.A., Achmadi, A.S., **Handika, H.** and Rowe, K.C., 2015. A hog-nosed shrew rat (Rodentia: Muridae) from Sulawesi Island, Indonesia. *Journal of Mammalogy*, 96(5), pp.895-907.
11. **Handika, H.**, Nurdin, J. and Rizaldi. 2013. Small Terrestrial Mammals Community on Mount Singgalang, West Sumatra. *J. Bio. U. A* 2(2), pp.103-109.

#### HONORS AND AWARDS

<b>Grants-in-Aid</b>	2021
Provided by the American Society of Mammalogists (\$1,500)	
<b>Graduate Student Research Award</b>	2021
Provided by the Society of Systematic Biologists (\$3,000)	
<b>Graduate Student Association Award, Louisiana State University</b>	2019
Awarded to attend a conference in Washington D.C (\$400)	
<b>Biodiversity Information Fund for Asia</b>	2019
Provided by the Global Biodiversity Information Facility	
Co-Principal Investigator	
Awarded twice (BIFA3_17 and BIFA4_23) (total amount ~\$30,000)	
<b>International Post Graduate Coursework Award, University of Melbourne</b>	2015
Awarded to distinguished international students taking coursework program	
Approximately 50 students per year (50% tuition fee remission)	
<b>Indonesia Endowment Fund for Education</b>	2015-2017
Distributed by the Indonesian Ministry of Finance	
Awarded to study overseas.	
Covered tuition, monthly stipends, thesis research, and travel for a conference	

**Mohammed Bin Zayed Species Conservation Fund** 2014 and 2015  
 Awarded to conduct scientific research on Sumatra, Indonesia  
 Awarded twice (total \$9,500)

**Student Creativity Award on Research** 2012  
 Provided by Indonesian Ministry of Research and Education  
 Awarded to conduct scientific research (IDR10,000,000/~\$1,020)

## PROFESSIONAL EXPERIENCE

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### **Louisiana State University Museum of Natural Sciences, Mammal Department**

Curatorial Assistant, August 2018-Fall 2020

Preparation and curation of mammal specimens and their associated data

Training and mentoring undergraduate students on specimen curation

### **Museum Victoria, Melbourne, Australia**

Research student, 2015-2017

Participating in fieldwork and mammal observation across the state of Victoria, Australia

Involved in mammalian public exhibit showing mammalian specimen preparation for public visitors

### **Student Association of Indonesian Endowment Fund in Victoria, Australia**

Member, 2015-2017

Writing guideline to study in Australia for Indonesian students

Participating in organizing student gathering and seminar for the group member

### **Student Association on Nature and Conservation**

Permanent member, 2009-now

Training undergraduate student members on jungle survival, land navigation, search and rescue, and tropical forest ecology

Led and participating in mountain and cave expeditions across Sumatra, Indonesia

Led and participating in organizing conservation training and seminar for students, faculties, and public.

## TEACHING EXPERIENCE

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BIOL 4141	Mammalogy, <i>Louisiana State University, USA</i>	Fall 2021
BIOL 1209	Introduction to Biology, <i>Louisiana State University, USA</i>	Spring 2021
PAB125	Computer Application for Biology, <i>Andalas University, Indonesia</i>	Fall 2012

## WORKSHOP TAUGHT

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Introduction to Phylogenetics, <i>Andalas University, Indonesia</i>	Jan 2012
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## PRESENTATIONS

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**Handika, H.**, Achmadi, A.S., Rowe, Swanson, M. T., K.C, and Esselstyn, J.A. 2021. In situ diversification of Murine Rodents on Sulawesi, Indonesia. Oral presentation. *100th Annual Meeting of the American Society of Mammalogists*, Virtual.

**Handika, H.**, Achmadi, A.S., Esselstyn, J.A., and Rowe, K.C. 2019. In situ diversification of *Bunomys* (Muridae) on the isolated, topographically complex island of Sulawesi, Indonesia. Oral presentation. *99th Annual Meeting of the American Society of Mammalogists*, Washington D.C, USA.

**Handika, H.**, Achmadi, A.S., Esselstyn, J.A., and Rowe, K.C. 2018. The geography of diversification among endemic island rodents on Sulawesi, Indonesia. Oral presentation. *LSU Museum of Natural Science Seminar*, Baton Rouge, USA.

**Handika, H.**, Achmadi, A.S., Esselstyn, J.A., and Rowe, K.C. 2017. Sulawesi after Wallace: multiple murine lineages support within island speciation across the northern peninsula of Sulawesi, Indonesia. Oral presentation. *12th International Mammalogical Congress*, Perth, Australia.

**Handika, H.** 2017. Cracking Sulawesi Biodiversity Enigma: Veering Indonesian Priorities. Oral presentation. *The 36<sup>th</sup> Indonesia Forum Postgraduate Roundtable*, Melbourne, Indonesia.

**Handika, H.**, Achmadi, A.S., Esselstyn, J.A., and Rowe, K.C. 2016. Biogeography and Phylogeny of the Two Most Diverse Murid Rodent Genera on Sulawesi, Indonesia. Oral presentation. *96th Annual Meeting of the American Society of Mammalogists*, Washington D.C, USA.

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#### PEER REVIEWS

Journal of Ecology and Evolution (1), Journal of Mammalogy (1), Biodiversitas Journal of Biological Diversity (1)

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#### FIELDWORK

Led (securing permits, arranging logistics, scouting field sites, and managing field camps) and participating in collecting and biodiversity assessment expeditions in 32 locations across Sumatra, Java, Kalimantan, Sulawesi, Bangka, and Belitung islands in Indonesia, Samar Island in the Philippines, Borneo in Malaysia, the state of Victoria in Australia, and in the U.S.

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#### MEMBERSHIPS

The Society of Systematic Biologists, 2020-Present  
The American Society of Mammalogists, 2016-Present  
IUCN SSC Small Mammal Specialist Group, 2017-Present  
KCA-LH Rafflesia FMIPA Unand, 2009-Present

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#### LANGUAGES

**Minangkabau:** Native  
**Bahasa Indonesia:** Native  
**English:** Experience

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#### COMPUTER SKILLS

**Computer languages:** C, C++, Python, Rust, Go, Julia, R, HTML, CSS, Bash  
**Graphic Design Software:** Adobe Photoshop, Lightroom, Illustrator, Affinity Designer

**Mapping Software:** QGIS

**Platforms:** MacOS, Windows, Linux (Debian, Fedora, OpenSUSE, Manjaro, Ubuntu)