

# Yafei Mao

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## Education:

**Okinawa Institute of Science and Technology Graduate University** *Japan*

Ph.D., Evolutionary Genomics Sep 2014 - Apr 2019

(Advisors: [Dr. Noriyuki Satoh](#) and [Dr. Evan Economo](#))

**Nanjing University** *China*

B.Sc., Life Sciences, GPA: 4.5/5.0, Ranking: 2/77 Sep 2010 - Jun 2014

## Other training:

**Princeton University** *USA*

Visiting student (Advisor: [Dr. Ricardo Mallarino](#)) May 2018 - Oct 2018

**Hong Kong University of Science and Technology** *Hongkong, China*

Visiting student (Advisor: [Dr. Mingjie Zhang](#)) Oct 2013 - Mar 2014

## Professional Experience:

**University of Washington** *USA*

Postdoctoral Fellow (Advisor: [Dr. Evan Eichler](#)) Jun 2019 – present

**Okinawa Institute of Science and Technology Graduate University** *Japan*

Junior Researcher Apr 2019 - Jun 2019

(Advisors: [Dr. Noriyuki Satoh](#) and [Dr. Evan Economo](#))

## Awards:

Japan Society for the Promotion of Science (JSPS) Fellow, DC1 2017

Outstanding Graduates of Nanjing University 2014

Gold medal of iGEM 2013

Cyrus Tang Scholarship 2010 - 2012

National Scholarship 2012

National Motivational Scholarships	2011,2013
Outstanding Students of Nanjing University	2011

### **Workshops and Conferences:**

#### ***Conferences:***

Bold Predictions for Human Genomics by 2030	Virtual Meeting	2021
T2T/HPRC Symposium	Virtual Meeting	2020
The Use of Big Data in Quantitative Genetics	Lucca, Italy	2019
The 1st AsiaEvo Conference, ( <i>Invited speaker</i> )	Shenzhen, China	2018
Agricultural Genomics 2017	Wuhan, China	2017
Speciation ( <i>Selected for Oral Poster Presentation</i> )	Lucca, Italy	2017

#### ***Workshops***

Machine Learning	Princeton, USA	2018
Population and Speciation Genomics	Český Krumlov, Czech Republic	2016
Molecular Evolution Workshop	Woods Hole, USA	2015

### **Publications:**

**Mao, Y.**, Catacchio, R. C., ... & Eichler, E. E. (2021). A high-quality bonobo genome refines the analysis of hominid evolution. *Nature*. (Accepted, co-first author)

**Mao, Y.\***, Hou, S., Shi, J., & Economo, E. P. (2020). TREEasy: an automated workflow to infer gene trees, species trees, and phylogenetic networks from multilocus data. *Molecular Ecology Resource*, 2020;20:832–840.

**Mao, Y.\*** (2020). Genomic insights into hybridization of reef corals. *Coral Reefs*, 39(1), 61-67.

**Mao, Y.\***, & Satoh, N. (2019). A likely ancient genome duplication in the speciose reef-building coral genus, *Acropora*. *Isience*, 13, 20-32.

**Mao, Y.\*** (2019). GenoDup Pipeline: a tool to detect genome duplication using the dS-based method. *PeerJ*, 7, e6303.

**Mao, Y.\***, Economo, E. P., & Satoh, N. (2018). The roles of introgression and climate change in the rise to dominance of *Acropora* corals. *Current Biology*, 28(21), 3373-3382.

Logsdon, G. A., Vollger, M. R., Hsieh, P., **Mao, Y.**, Liskovych, M. A., Koren, S., ... & Eichler, E. E. (2020). The structure, function, and evolution of a complete human chromosome 8. *Nature*, (in press).

Warren, W. C., Harris, R. A., Haukness, M., Fiddes, I. T., Murali, S. C., Fernandes, J.,... **Mao, Y.** ... & Eichler, E. E. (2020). Sequence diversity analyses of an improved rhesus macaque genome enhance its biomedical utility. *Science*, 370(6523).

Cantsilieris, S., Sunkin, S. M., Johnson, M. E., Anaclerio, F., Huddleston, J., Baker, C.,... **Mao, Y.** ... & Eichler, E. E. (2020). An evolutionary driver of interspersed segmental duplications in primates. *Genome biology*, 21(1), 1-35.

Maggiolini, F. A. M., Sanders, A. D., Shew, C. J., Sulovari, A., **Mao, Y.**, Puig, M., ... & Antonacci, F. (2020). Single-cell strand sequencing of a macaque genome reveals multiple nested inversions and breakpoint reuse during primate evolution. *Genome Research*, 30(11), 1680-1693.

Zhang, Y. M., Shao, Z. Q., Yang, L. T., Sun, X. Q., **Mao, Y. F.**, Chen, J. Q., & Wang, B. (2013). Non-random arrangement of synonymous codons in archaea coding sequences. *Genomics*, 101(6), 362-367.

**NOTE: \*Corresponding author**